Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

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From: "Alexandr Ciornii via RT" <bug-Text-ParseWords@rt.cpan.org>
Reply-To: bug-Text-ParseWords@rt.cpan.org
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On Mon Nov 18 10:37:28 2013, mmaslano@redhat.com wrote:
> It would be a big help if you have better defined license. License
> text in .pm file would be enough.

Will do in next version.

> I found Perl license in Makefile.PL,
> so we assumed it's Perl (GPL+ or Artistic). Is it correct?

yes

--
Alexandr Ciornii, http://chorny.net

1.2 wstx-asl 3.2.1

1.3 libmusicbrainz 5.0.1-9.el7

1.3.1 Available under license :

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1.4 libsndfile 1.0.25-10.el7

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<one line to give the program's name and a brief idea of what it does.>

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```
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```

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```
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<signature of Ty Coon>, 1 April 1989
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----------

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1.12 pam 1.1.8-3.6ubuntu2.18.04.3
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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

```c
+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd))
+            {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily
",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+        }
```

---
+     if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+         goto finished;
+     
+     if (stat(flag, &s) != 0)
+     {
+         display_file(pamh, "/etc/legal");
+         mkdir(dir, 0700);
+         f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                     S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+         if (f>=0) close(f);
+     }
+     
+     finished:
+     if (pam_modutil_regain_priv(pamh, &privs)) {
+         pam_syslog(pamh, LOG_ERR,
+                     "Unable to change UID back to \%d\n", privs.old_uid);
+         retval = PAM_SESSION_ERR;
+     }
+     
+     _pam_drop(flag);
+     _pam_drop(dir);
+     
+     return retval;
+
+PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
} }

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.13 jboss-transaction-api 1.0.1.Final

1.14 libilbc 2.0.2
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1.15 shiro-crypto-core 1.7.1

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1.25 gzip 1.5 10.el7

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

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

define <4 x i32> @PR41535(<2 x i32> %p1, <2 x i32> %p2) {
; CHECK-LABEL: PR41535:
; CHECK:       // %bb.0:
; CHECK-NEXT:  ext v0.8b, v0.8b, v1.8b, #4
; CHECK-NEXT:  mov v0.d[1], v0.d[0]
; CHECK-NEXT:  ret
%cat1 = shufflevector <2 x i32> %p1, <2 x i32> undef, <4 x i32> <i32 undef, i32 1, i32 undef, i32 undef>
%cat2 = shufflevector <2 x i32> %p2, <2 x i32> undef, <4 x i32> <i32 0, i32 undef, i32 undef, i32 undef>
%r = shufflevector <4 x i32> %cat1, <4 x i32> %cat2, <4 x i32> <i32 undef, i32 undef, i32 1, i32 4>
ret <4 x i32> %r
}

; RUN: llc -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s

; Test that early if conversion produces LOCR with operands of the right register classes.

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

CF246:
; preds = %CF246, %BB
%S1163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248:
; preds = %CF248, %CF246
store i8 %S1163, i8* %0
br label %CF248
}

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; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

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

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
;
; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1
;
; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0> ret <4 x double> %res
NOTE: Assertions have been autogenerated by `utils/update_llc_test_checks.py`

RUN: \texttt{lc -mtriple=x86\_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s}

D31946

Check that we don't end up with the ""LLVM ERROR: Cannot select" error.
Additionally ensure that the output code actually put fp128 values in SSE registers.

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

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  ; CHECK-LABEL: TestSelect:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  pushq %rbx
  ; CHECK-NEXT:   .cfi_def_cfa_offset 16
  ; CHECK-NEXT:   subq $32, %rsp
  ; CHECK-NEXT:   .cfi_def_cfa_offset 48
  ; CHECK-NEXT:   .cfi_offset %rbx, -16
  ; CHECK-NEXT:   movaps %xmm1, {{[-0-9]+}}(%r{{[sb]}}p) # 16-byte Spill
  ; CHECK-NEXT:   movaps %xmm0, (%rsp) # 16-byte Spill
  ; CHECK-NEXT:   callq __gttf2
  ; CHECK-NEXT:   movl %eax, %ebx
  ; CHECK-NEXT:   movaps (%rsp), %xmm0 # 16-byte Reload
  ; CHECK-NEXT:   movaps {{[-0-9]+}}(%r{{[sb]}}p), %xmm1 # 16-byte Reload
  ; CHECK-NEXT:   callq __subtf3
  ; CHECK-NEXT:   testl %ebx, %ebx
  ; CHECK-NEXT:   jg .LBB0.2
  ; CHECK-NEXT:   xorps %xmm0, %xmm0
  ; CHECK-NEXT:   .LBB0.2:
  ; CHECK-NEXT:   addq $32, %rsp
  ; CHECK-NEXT:   .cfi_def_cfa_offset 16
  ; CHECK-NEXT:   popq %rbx
  ; CHECK-NEXT:   .cfi_def_cfa_offset 8
  ; CHECK-NEXT:   retq
  \%cmp = fcmp ogt fp128 %a, %b
  \%sub = fsub fp128 %a, %b
  \%res = select i1 \%cmp, fp128 \%sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

define fp128 @TestFabs(fp128 %a) {
  ; CHECK-LABEL: TestFabs:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:  pushq %rbx
  ; CHECK-NEXT:   .cfi_def_cfa_offset 16
  ; CHECK-NEXT:   subq $32, %rsp
  ; CHECK-NEXT:   .cfi_def_cfa_offset 48
  ; CHECK-NEXT:   .cfi_offset %rbx, -16
  ; CHECK-NEXT:   movaps %xmm1, {{[-0-9]+}}(%r{{[sb]}}p) # 16-byte Spill
  ; CHECK-NEXT:   movaps %xmm0, (%rsp) # 16-byte Spill
  ; CHECK-NEXT:   callq __gttf2
  ; CHECK-NEXT:   movl %eax, %ebx
  ; CHECK-NEXT:   movaps (%rsp), %xmm0 # 16-byte Reload
  ; CHECK-NEXT:   movaps {{[-0-9]+}}(%r{{[sb]}}p), %xmm1 # 16-byte Reload
  ; CHECK-NEXT:   callq __subtf3
  ; CHECK-NEXT:   testl %ebx, %ebx
  ; CHECK-NEXT:   jg .LBB0.2
  ; CHECK-NEXT:   xorps %xmm0, %xmm0
  ; CHECK-NEXT:   .LBB0.2:
  ; CHECK-NEXT:   addq $32, %rsp
  ; CHECK-NEXT:   .cfi_def_cfa_offset 16
  ; CHECK-NEXT:   popq %rbx
  ; CHECK-NEXT:   .cfi_def_cfa_offset 8
  ; CHECK-NEXT:   retq
  \%cmp = fcmp ogt fp128 %a, %b
  \%sub = fsub fp128 %a, %b
  \%res = select i1 \%cmp, fp128 \%sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}
```

ret fp128 %res
}

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

define fp128 @TestFneg(fp128 %a) {
; CHECK-LABEL: TestFneg:
; CHECK: # %bb.0:
; CHECK-NEXT: pushq %rax
; CHECK-NEXT: .cfi_def_cfa_offset 16
; CHECK-NEXT: movaps %xmm0, %xmm1
; CHECK-NEXT: callq __multf3
; CHECK-NEXT: xorps {{.*}}(%rip), %xmm0
; CHECK-NEXT: popq %rax
; CHECK-NEXT: .cfi_def_cfa_offset 8
; CHECK-NEXT: retq
%mul = fmul fp128 %a, %a
%res = fsub fp128 0xL00000000000000008000000000000000, %mul
ret fp128 %res
}

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; RUN: opt %s -inline -S | FileCheck %s

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

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

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

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

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

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

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]?]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]?]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]?]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]?]] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]?]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]?]] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT:  %7 = load volatile i8, i8* %6
; CHECK-NEXT:  %[[M3:const_mat[0-9]?]] = add i32 %[[C1]], 7
; CHECK-NEXT:  %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT:  %9 = load volatile i8, i8* %8
; CHECK-NEXT:  %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT:  store i8 %9, i8* %10
; CHECK-NEXT:  %[[M4:const_mat[0-9]?]] = add i32 %[[C4]], 31
; CHECK-NEXT:  %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT:  store i8 %7, i8* %11
; CHECK-NEXT:  %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT:  store i8 %5, i8* %12
define void @foo_i8() {
  entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
  ret void
}

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*)
  %1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*)
  %2 = load volatile i16, i16* inttoptr (i32 805874719 to i16*)
  %3 = load volatile i16, i16* inttoptr (i32 805874720 to i16*)
  %4 = load volatile i16, i16* inttoptr (i32 805874727 to i16*)
  store i16 %4, i16* inttoptr(i32 805873688 to i16*)
  store i16 %3, i16* inttoptr(i32 805873719 to i16*)
  store i16 %2, i16* inttoptr(i32 805873720 to i16*)
  store i16 %1, i16* inttoptr(i32 805873727 to i16*)
  store i16* inttoptr(i32 805874800 to i16*), i16** @goo
  ret void
}

; Check that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16
; CHECK-DAG: %[[C1:const][0-9]?] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const][0-9]?] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat][0-9]?] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat][0-9]?] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat][0-9]?] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %8 = inttoptr i32 %[[C1]] to i16*
; CHECK-NEXT: %9 = load volatile i16, i16* %8, align 2
; CHECK-NEXT: %[[M4:const_mat][0-9]?] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
; CHECK-NEXT: %11 = load volatile i16, i16* %10, align 2

define void @foo_i16() {
  entry:
  %0 = load volatile i16, i16* inttoptr (i32 805874688 to i16*), align 2
%1 = load volatile i16, i16* inttoptr (i32 805874692 to i16*), align 2
%2 = load volatile i16, i16* inttoptr (i32 805874720 to i16*), align 2
%3 = load volatile i16, i16* inttoptr (i32 805874750 to i16*), align 2
%4 = load volatile i16, i16* inttoptr (i32 805874752 to i16*), align 2
%5 = load volatile i16, i16* inttoptr (i32 805874774 to i16*), align 2
ret void
}

; Check that for i32 type, the maximum legal offset is 124.
; CHECK: foo_i32
; CHECK-DAG: %[[C1:const[0-9]+]]= bitcast i32 805874816 to i32
; CHECK-DAG: %[[C2:const[0-9]+]]= bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i32*
; CHECK-NEXT: %1 = load volatile i32, i32* %0, align 4
; CHECK-NEXT: %[[M1:const_mat[0-9]+]]= add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i32*
; CHECK-NEXT: %3 = load volatile i32, i32* %2, align 4
; CHECK-NEXT: %[[M2:const_mat[0-9]+]]= add i32 %[[C2]], 124
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i32*
; CHECK-NEXT: %5 = load volatile i32, i32* %4, align 4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i32*
; CHECK-NEXT: %7 = load volatile i32, i32* %6, align 4
; CHECK-NEXT: %[[M3:const_mat[0-9]+]]= add i32 %[[C1]], 8
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i32*
; CHECK-NEXT: %9 = load volatile i32, i32* %8, align 4
; CHECK-NEXT: %[[M4:const_mat[0-9]+]]= add i32 %[[C1]], 12
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i32*
; CHECK-NEXT: %11 = load volatile i32, i32* %10, align 4

define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874688 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874812 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874824 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874828 to i32*), align 4
ret void
}

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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -S -argpromotion < %s | FileCheck %s
; RUN: opt -S -passes=argpromotion < %s | FileCheck %s
; Test that we only promote arguments when the caller/callee have compatible function attributes.

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

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
  ; CHECK-NEXT: ret void
  bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

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

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT:  store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
  ; CHECK-NEXT:  ret void
  :
  bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; CHECK-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; CHECK-NEXT:  call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
  ; CHECK-NEXT:  [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
  ; CHECK-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
  ; CHECK-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
  ; CHECK-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; CHECK-NEXT:  ret void
  :
  bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
    ; CHECK-NEXT: ret void

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

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
    ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
    ; CHECK-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT: [[TMP_VAL:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
    ; CHECK-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64> [[TMP_VAL]])
    ; CHECK-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
    ; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; CHECK-NEXT: ret void

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

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1_VAL:%.*]])
    ; CHECK-NEXT: bb:
; CHECK-NEXT: store <8 x i64> [[ARG1_VAL]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

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

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

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
; CHECK-LABEL: define {{\[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
; CHECK-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256<8 x i64>* %arg) #2 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal256_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: %tmp = alloca <8 x i64>, align 32
  ; CHECK-NEXT: %tmp2 = alloca <8 x i64>, align 32
  ; CHECK-NEXT: %tmp3 = bitcast <8 x i64>* %tmp to i8*
  ; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  ; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256<8 x i64>* [TMP], <8 x i64>* [TMP])
  ; CHECK-NEXT: %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  ; CHECK-NEXT: store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ; CHECK-NEXT: ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
  ; CHECK-NEXT: bb:
  ; CHECK-NEXT: %tmp = load <8 x i64>, <8 x i64>* [[ARG1]]
  ; CHECK-NEXT: store <8 x i64> %tmp, <8 x i64>* [[ARG]]
  ; CHECK-NEXT: ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256

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define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg2, <8 x i64>* %arg)
    %tmp4 = load <8 x i64>, <8 x i64>* %arg2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  bb:
    %tmp = load <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

define void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64)* [[%arg]], 8 x i64)* [[%arg1]] #4 {
  bb:
    store <8 x i64> %arg1, <8 x i64>* %arg, align 2
    ret void
}

define void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)* [[%arg]], 8 x i64)* [[%arg1]] #4 {
  bb:
    store <8 x i64> %arg1, <8 x i64>* %arg, align 2
    ret void
}

define void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64)* [[%arg]], 8 x i64)* [[%arg1]] #4 {
  bb:
    store <8 x i64> %arg1, <8 x i64>* %arg, align 2
    ret void
}

define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg2, <8 x i64>* %arg)
    %tmp4 = load <8 x i64>, <8 x i64>* %arg2, align 32
    store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64)* [[%arg]], 8 x i64)* [[%arg1]] #3 {
  bb:
    store <8 x i64> %arg1, <8 x i64>* %arg, align 2
    ret void
}

define void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64)* [[%arg]], 8 x i64)* [[%arg1]] #4 {
  bb:
    store <8 x i64> %arg1, <8 x i64>* %arg, align 2
    ret void
}

define void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64)* [[%arg]], 8 x i64)* [[%arg1]] #4 {
  bb:
    store <8 x i64> %arg1, <8 x i64>* %arg, align 2
    ret void
}

define void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64)* [[%arg]], 8 x i64)* [[%arg1]] #4 {
  bb:
    store <8 x i64> %arg1, <8 x i64>* %arg, align 2
    ret void
}
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
; CHECK-LABEL: define
{{[^@]+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT:    [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:    ret i32 [[C]]
:
%A = load i32, i32* %X
%B = load i32, i32* %Y
%C = add i32 %A, %B
ret i32 %C
}
define i32 @scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32* [[B:%.*]])
; CHECK-NEXT:    [[A:%.*]] = alloca i32
; CHECK-NEXT:    store i32 1, i32* [[A]]
; CHECK-NEXT:    [[A_VAL:%.*]] = load i32, i32* [[A]]
; CHECK-NEXT:    [[B_VAL:%.*]] = load i32, i32* [[B]]
; CHECK-NEXT:    [[C:%.*]] = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:    ret i32 [[C]]
:
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
ret i32 %C
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
; CHECK-LABEL: define
{{[^@]+}}@scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
; CHECK-NEXT:    [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
; CHECK-NEXT:    ret i32 [[C]]
:
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %A, i32* %B)
ret i32 %C
}


define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define (i32* %B)
    ; CHECK-SAME: (i32* %B)
    ; CHECK-NEXT: [[A:%.*]] = alloca i32
    ; CHECK-NEXT: store i32 1, i32* [[A]]
    ; CHECK-NEXT: [[A_VAL:%.*]] = load i32, i32* [[A]]
    ; CHECK-NEXT: [[B_VAL:%.*]] = load i32, i32* [[B]]
    ; CHECK-NEXT: [[C:%.*]] = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
    ; CHECK-NEXT: ret i32 [[C]]
}

@scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
  %A = load i32, i32* %X
  %B = load i32, i32* %Y
  %C = add i32 %A, %B
  ret i32 %C
}

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 -mattr=prefer-256-bit,avx512vbmi | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; Make sure CPUs default to prefer-256-bit. avx512vnni isn't interesting as it just adds an isel peephole for vpmaddwd+vpadd
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mcpu=skylake-avx512 | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cascadelake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cooperlake | FileCheck %s --check-prefixes=CHECK,CHECK-AVX512
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=cannonlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-client | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=icelake-server | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -mattr=-avx512vnni -mcpu=tigerlake | FileCheck %s --check-prefixes=CHECK,CHECK-VBMI

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

define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" { ; CHECK-LABEL: add256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpadd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpadd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vpaddd %ymm0, (%rdx)
; CHECK-NEXT: vpaddd %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: avg_v64i8_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa64 (%rsi), %zmm0
    ; CHECK-NEXT:  vpadvb (%rdi), %zmm0, %zmm0
    ; CHECK-NEXT:  vmovdqu64 %zmm0, (%rax)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %1 = load <64 x i8>, <64 x i8>* %a
    %2 = load <64 x i8>, <64 x i8>* %b
    %3 = zext <64 x i8> %1 to <64 x i32>
    %4 = zext <64 x i8> %2 to <64 x i32>
    %5 = add nzw %3, %4
    %6 = add nzw %5, %4
    %7 = lshr <64 x i32> %6, %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}

define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: pmaddwd_32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
    ; CHECK-NEXT:  vpmaddwd 32(%rsi), %ymm1, %ymm0
    ; CHECK-NEXT:  vpmaddwd (%rsi), %ymm0, (%rdx)
    ; CHECK-NEXT:  vmovdqa %ymm0, 32(%rdx)
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mulf %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32

define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {  
; CHECK-LABEL: pmaddwd_32_512:  
; CHECK:    # %bb.0:  
; CHECK-NEXT:  vmovdqa64 (%rdi), %zmm0  
; CHECK-NEXT:  vpmaddwd (%rsi), %zmm0, %zmm0  
; CHECK-NEXT:  vmovdqa64 %zmm0, (%rdx)  
; CHECK-NEXT:  vzeroupper  
; CHECK-NEXT:  retq  

%A = load <32 x i16>, <32 x i16>* %APtr  
%B = load <32 x i16>, <32 x i16>* %BPtr  
%a = sext <32 x i16> %A to <32 x i32>  
%b = sext <32 x i16> %B to <32 x i32>  
%m = mul nsw <32 x i32> %a, %b  
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 25, i32 27, i32 29, i32 31>  
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>  
%ret = add <16 x i32> %odd, %even  
store <16 x i32> %ret, <16 x i32>* %CPtr  
ret void  
}
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
; CHECK-LABEL: psubus_64i8_max_512:
; CHECK:       # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
}

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

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define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: _Z9test_charPcS_i_512:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT:    movl %edx, %eax
    ; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT:    xorl %ecx, %ecx
    ; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT:    .p2align 4, 0x90
    ; CHECK-NEXT:  .LBB9_1: # %vector.body
    ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
    ; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2
    ; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3
    ; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1
    ; CHECK-NEXT:    addq $32, %rcx
    ; CHECK-NEXT:    cmpq %rcx, %rax
    ; CHECK-NEXT:    jne .LBB9_1
    ; CHECK-NEXT:  # %bb.2: # %middle.block
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1
    ; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0
    ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
    ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
    ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
    ; CHECK-NEXT:    vmovd %xmm0, %eax
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    entry:
    %3 = zext i32 %2 to i64
    br label %vector.body
vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, %13 = extractelement <32 x i32> %12, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
  ; CHECK-LABEL: sad_16i8_256:
  ; CHECK:     # %bb.0: # %entry
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT: .p2align 4, 0x90
  ; CHECK-NEXT: .LBB10_1: # %vector.body
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT: vmovdqu a+1024(%rax), %ymm2
  ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2, %ymm2
  ; CHECK-NEXT: vpaddd %ymm1, %ymm2, %ymm1
  ; CHECK-NEXT: addq $4, %rax
  ; CHECK-NEXT: jne .LBB10_1
  ; CHECK-NEXT: # %bb.2: # %middle.block
  ; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %ymm1
  ; CHECK-NEXT: vpaddd %xmm1, %xmm0, %ymm0
  ; CHECK-NEXT: vpshufd {{.*#+}} %xmm1 = %ymm0[2,3,0,1]
  ; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0
  ; CHECK-NEXT: vmovd %xmm0, %eax
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
entry:
  br label %vector.body
}

vector.body:

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

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

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
...
entry:
  br label %vector.body

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

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

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

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

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbto16f64_256:
; CHECK:  # %bb.0:
; CHECK-NEXT:  vpmovw2m %ymm0, %k0
; CHECK-NEXT:  kshiftrw $8, %k0, %k1
; CHECK-NEXT:  vpmovm2d %k1, %ymm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:  vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:  vpmovm2d %k0, %ymm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT:  vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:  vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:  vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT:  vmovaps %ymm3, (%rdi)
; CHECK-NEXT:  vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT:  vzeroupper
define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: sbto16f64_512:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: vpmovm2d %k0, %zmm0
  ; CHECK-NEXT: vcmovq2pd %ymm0, %zmm1
  ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
  ; CHECK-NEXT: vcmovq2pd %ymm0, %zmm0
  ; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
  ; CHECK-NEXT: vmovaps %zmm1, (%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = sitofp <16 x i1> %mask to <16 x double>
  store <16 x double> %1, <16 x double>* %res
  ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f32_256:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: kshiftrw $8, %k0, %k1
  ; CHECK-NEXT: vpmovm2d %k1, %ymm0
  ; CHECK-NEXT: vcmovq2ps %ymm0, %ymm0
  ; CHECK-NEXT: vcmovq2ps %ymm1, %ymm1
  ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
  ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f32_512:
  ; CHECK:      # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: kshiftrw $8, %k0, %k1
  ; CHECK-NEXT: vpmovm2d %k1, %ymm0
  ; CHECK-NEXT: vcmovq2ps %ymm0, %ymm0
  ; CHECK-NEXT: vcmovq2ps %ymm1, %ymm1
  ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
  ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}
define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK: 
CHECK-NEXT: vpmovw2m %ymm0, %k0
CHECK-NEXT: vpmovm2d %k0, %zmm0
CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
CHECK-NEXT: vcvtdq2ps %zmm0, %zmm0
CHECK-NEXT: vmovaps %zmm0, (%rdi)
CHECK-NEXT: vzeroupper
CHECK-NEXT: retq

%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: 
CHECK-NEXT: vpmovw2m %ymm0, %k0
CHECK-NEXT: kshiftrw $8, %k0, %k1
CHECK-NEXT: vpmovm2d %k1, %ymm0
CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
CHECK-NEXT: vpmovm2d %k0, %ymm2
CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
CHECK-NEXT: vmovaps %ymm3, (%rdi)
CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
CHECK-NEXT: vzeroupper
CHECK-NEXT: retq

%mask = icmp slt <16 x i16> %a, zeroinitializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: 
CHECK-NEXT: vpmovw2m %ymm0, %k0
CHECK-NEXT: vpmovm2d %k0, %zmm0
CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
CHECK-NEXT: vcvtdq2pd %zmm0, %zmm1

; CHECK-LABEL: test_16f32tosb_256:
; CHECK:     # %bb.0:
; CHECK-NEXT: vcvtpps2dq (%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvtpps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitialize
ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
; CHECK-LABEL: test_16f32tosb_512:
; CHECK:     # %bb.0:
; CHECK-NEXT: vcvtpps2dq (%rdi), %zmm1
; CHECK-NEXT: vpmovd2m %zmm1, %k1
; CHECK-NEXT: vmovdqu16 %ymm0, %ymm0 [%k1] {z}
; CHECK-NEXT: retq
%a = load <16 x float>, <16 x float>* %ptr
%mask = fptosi <16 x float> %a to <16 x i1>
%select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitialize
ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: mul256:
; CHECK-AVX512:     # %bb.0:
; CHECK-AVX512-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-AVX512-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-AVX512-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-AVX512-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm4 = ymm3[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 = ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT: vpmullw ymm4, %ymm4, %ymm5, %ymm4
; CHECK-AVX512-NEXT: vpand %ymm5, %ymm4, %ymm4
; CHECK-AVX512-NEXT: vpunpcldbw {{.*#+}} ymm3 = ymm3[0,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,16,16,17,17,18,18,19,19,19,19,20,20,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT: vpunpckldbw {{.*#+}} ymm1 = ymm1[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,16,16,17,17,18,18,19,19,19,19,20,20,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpackuswb %ymm4, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm3 = ymm2[8,9,9,10,10,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm3 = ymm0[8,9,9,10,10,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-AVX512-NEXT:  vpmullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT:  vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpackuswb %ymm0, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vmovdqa %ymm0, (%rdx)
; CHECK-AVX512-NEXT:  vmovdqa %ymm1, 32(%rdx)
; CHECK-AVX512-NEXT:  vzeroupper
; CHECK-AVX512-NEXT:  retq

; CHECK-VBMI-LABEL:  mul256:
; CHECK-VBMI:        # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymm3
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm3 = ymm3[8,9,9,10,10,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 = ymm1[8,9,9,10,10,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm3 = ymm3[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,10,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm1 = ymm1[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vmovdqa %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm3 = ymm3[0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,32,48,50,52,54,56,58,60,62]
; CHECK-VBMI-NEXT:  vmovdqa %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 = ymm2[8,9,9,10,10,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm5 = ymm0[8,9,9,10,10,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm2 = ymm2[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm0 =

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ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT: vpmullw %ymm2, %ymm0, %ymm0
; CHECK-VBMI-NEXT: vpermt2b %ymm4, %ymm3, %ymm0
; CHECK-VBMI-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-VBMI-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-VBMI-NEXT: vzeroupper
; CHECK-VBMI-NEXT: retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}
define void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
; CHECK-AVX512-LABEL: mul512:
; CHECK-AVX512:
# %bb.0:
; CHECK-AVX512-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-AVX512-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm2 =
zmm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT: vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT: vmovdqa64 {{.*#+}} zmm3 =
55,255,255,255,255,255]
; CHECK-AVX512-NEXT: vpandq %zmm3, %zmm2, %zmm2
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT: vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
; CHECK-AVX512-NEXT: vpmullw %zmm1, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vpandq %zmm3, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-AVX512-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-AVX512-NEXT: vzeroupper
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: mul512:
; CHECK-VBMI:
# %bb.0:
; CHECK-VBMI-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT: vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} zmm2 =

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; OPEN SOURCE IN USE

 define <4 x i32> @mload_v4i32(<4 x i32> %trigger, <4 x i32>* %addr, <4 x i32> %dst) "min-legal-vector-width"="256" {
    .CHECK-LABEL: mload_v4i32:
    .CHECK: # %bb.0:
    .CHECK-NEXT: vptestnmd %xmm0, %xmm0, %k1
    .CHECK-NEXT: vpblendmd (%rdi), %xmm1, %xmm0 {%k1}
    .CHECK-NEXT: retq
    %mask = icmp eq <4 x i32> %trigger, zeroinitializer
    %res = call <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>* %addr, i32 4, <4 x i31> %mask, <4 x i32> %dst)
    ret <4 x i32> %res
}
declare <4 x i32> @llvm.masked.load.v4i32.p0v4i32(<4 x i32>*, i32, <4 x i1>, <4 x i32>)

 define <16 x i32> @trunc_v16i64_v16i32(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    .CHECK-LABEL: trunc_v16i64_v16i32:
    .CHECK: # %bb.0:
    .CHECK-NEXT: vmovdqa (%rdi), %ymm0
    .CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
    .CHECK-NEXT: vmovdqa 64(%rdi), %ymm2
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i64_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:     vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:     vpmovdq %ymm0, %xmm0
    ; CHECK-NEXT:     vpmovq %ymm1, %xmm1
    ; CHECK-NEXT:     vpmovqd %ymm2, %xmm2
    ; CHECK-NEXT:     vpmovqd %ymm3, %xmm3
    ; CHECK-NEXT:     retq
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i32>
ret <16 x i32> %b
}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v16i32_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:     vmovdqa (%rdi), %ymm0
    ; CHECK-NEXT:     vpmovdq %ymm0, %xmm0
    ; CHECK-NEXT:     vpmovd %ymm1, %xmm1
    ; CHECK-NEXT:     vpmovdq %ymm2, %xmm2
    ; CHECK-NEXT:     vpmovdq %ymm3, %xmm3
    ; CHECK-NEXT:     vzeroupper
%a = load <16 x i64>, <16 x i64>* %x
%b = trunc <16 x i64> %a to <16 x i8>
ret <16 x i8> %b
}
define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i8:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqb %ymm1, %xmm1
; CHECK-NEXT: vpmovqb %ymm0, %xmm0
; CHECK-NEXT: vpmovq %ymm0, %ymm0
; CHECK-NEXT: vpmovq %ymm1, %ymm1
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i8>
ret <8 x i8> %b
}

define <8 x i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i16:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmovqw %ymm1, %xmm1
; CHECK-NEXT: vpmovqw %ymm0, %xmm0
; CHECK-NEXT: vpmovq {.*#} %ymm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpsrlq $48, 32(%rdi), %ymm1
; CHECK-NEXT: vpmovq %ymm1, %ymm1
; CHECK-NEXT: vpmovq %ymm0, %ymm0
; CHECK-NEXT: vpmovq %ymm1, %ymm1
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_zeroes:
; CHECK:    # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa [%.*++] ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT: vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT: retq
; %a = load <16 x i32>, <16 x i32> * %x
; %b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
; %c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-AVX512: # %bb.0:
; CHECK-AVX512-NEXT: vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT: vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT: vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: vpermq [%.*++] ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT: retq
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI: # %bb.0:
; CHECK-VBMI-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT: vmovdqa [%.*++] ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT: vpermq [%.*++] ymm0 = ymm0[0,2,1,3]
; CHECK-VBMI-NEXT: retq
;
; CHECK-VBMI-NEXT: retq
%a = load <32 x i16>, <32 x i16> * %x
%b = lshr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>
%c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
}

define <8 x i32> @trunc_v8i64_v8i32_sign(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: trunc_v8i64_v8i32_sign:
; CHECK: # %bb.0:
; CHECK-NEXT: vpsraq $48, 32(%rdi), %ymm0
; CHECK-NEXT: vpsraq $48, (%rdi), %ymm1
; CHECK-NEXT: vpmovqd %xmm1, %ymm0
; CHECK-NEXT: vpmovqd %ymm0, %xmm0
; CHECK-NEXT: vinserti128 $1, %xmm0, %ymm1, %ymm0
; CHECK-NEXT: retq
%a = load <8 x i64>, <8 x i64> * %x
%b = ashr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}
define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_sign:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT: vpermi2w 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %x
%b = ashr <16 x i32> %a, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16,
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}
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define void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
  %a = sext <16 x i8> %x to <16 x i64>
  store <16 x i64> %a, <16 x i64>* %y
  ret void
}

define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
  %a = sext <16 x i8> %x to <16 x i64>
  store <16 x i64> %a, <16 x i64>* %y
  ret void
}

; CHECK-NEXT:  vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT:  vpshufd {[*+]} %xmm3 = %ymm1[2,3,0,1]
; CHECK-NEXT:  vpmovzxwq {[*+]} %ymm3 = %xmm0[0,zero,zero,zero,%ymm3[1],zero,zero,zero,%ymm3[2],zero,zero,zero,%ymm3[3],zero,zero,zero
; CHECK-NEXT:  vpmovzxwq {[*+]} %ymm1 = %xmm1[0,zero,zero,%ymm1[1],zero,zero,zero,%ymm1[2],zero,zero,zero,%ymm1[3],zero,zero,zero
; CHECK-NEXT:  vpmovzxwq {[*+]} %ymm0 = %xmm0[0,zero,zero,zero,%ymm0[1],zero,zero,zero,%ymm0[2],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:  vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:  vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT:  vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:  retq
%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}
define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: vselect_split_v8i32_setcc:  
  ; CHECK:      # %bb.0:  
  ; CHECK-NEXT: vmovdqa (%rsi), %ymm2  
  ; CHECK-NEXT: vmovdqa32(%rsi), %ymm3  
  ; CHECK-NEXT: vpcmpeqd %ymm1, %ymm0, %k1  
  ; CHECK-NEXT: kshiftr $4, %k1, %k2  
  ; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 {%k2}  
  ; CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 {%k1}  
  ; CHECK-NEXT: vmovdqa %ymm2, (%rdx)  
  ; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %x = load <8 x i64>, <8 x i64>* %p  
  %y = load <8 x i64>, <8 x i64>* %q  
  %a = icmp eq <8 x i32> %s, %t  
  %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y  
  store <8 x i64> %b, <8 x i64>* %r  
  ret void  
}  

define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: vselect_split_v16i8_setcc:  
  ; CHECK:      # %bb.0:  
  ; CHECK-NEXT: vmovdqa (%rsi), %ymm2  
  ; CHECK-NEXT: vmovdqa32(%rsi), %ymm3  
  ; CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1  
  ; CHECK-NEXT: kshiftrw $8, %k1, %k2  
  ; CHECK-NEXT: vmovdqa64 32(%rdi), %ymm3 {%k2}  
  ; CHECK-NEXT: vmovdqa64 (%rdi), %ymm2 {%k1}  
  ; CHECK-NEXT: vmovdqa %ymm2, (%rdx)  
  ; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)  
  ; CHECK-NEXT: vzeroupper  
  ; CHECK-NEXT: retq  
  %x = load <16 x i8>, <16 x i8>* %p  
  %y = load <16 x i8>, <16 x i8>* %q  
  %a = icmp eq <16 x i32> %s, %t  
  %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y  
  store <16 x i32> %b, <16 x i32>* %r  
  ret void  
}
define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v16i16_setcc:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
    ; CHECK-NEXT: kshiftrw $8, %k1, %k2
    ; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
    ; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
    ; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
    ; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %x = load <16 x i32>, <16 x i32>* %p
    %y = load <16 x i32>, <16 x i32>* %q
    %a = icmp eq <16 x i16> %s, %t
    %b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
    store <16 x i32> %b, <16 x i32>* %r
    ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_packus_v16i32_v16i8:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
    ; CHECK-NEXT: kshiftrw $8, %k1, %k2
    ; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
    ; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
    ; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
    ; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %a = load <16 x i32>, <16 x i32>* %p
    %b = icmp slt <16 x i32> %a, <16 x i32> %p
    %c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %b
    ret void
}
%d = icmp sgt <16 x i32> %c, zeroinitializer
%e = select <16 x i1> %d, <16 x i32> %c, <16 x i32> zeroinitializer
%f = trunc <16 x i32> %e to <16 x i8>
ret <16 x i8> %f
}
define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpckusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vpmovuswb %ymm0, (%rsi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = load <16 x i32>, <16 x i32>* %p
%b = icmp slt <16 x i32> %a, <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%e = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255, i32 255>
%f = icmp sgt <16 x i32> %e, zeroinitializer
%g = select <16 x i1> %d, <16 x i32> %e, <16 x i32> zeroinitializer
%h = trunc <16 x i32> %g to <16 x i8>
store <16 x i8> %f, <16 x i8>* %q
ret void
}
define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_argument_return:
; CHECK: # %bb.0:
; CHECK-NEXT: retq
ret <64 x i1> %x
}
define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_shuffle:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm0
; CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0
; CHECK-NEXT: kshiftld $1, %k0, %k1
; CHECK-NEXT: movq $-3, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1
; CHECK-NEXT: kshiftlq $63, %k0, %k2
; CHECK-NEXT: kshiftrq $62, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1

; CHECK-NEXT: movq $-5, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $3, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $61, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-9, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $2, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $60, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-17, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $5, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $59, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-33, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $4, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $58, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-65, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $7, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $57, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-129, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $6, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $56, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $9, %k0, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $55, %k2, %k2
korq %k2, %k1, %k1
movq $-513, %rax # imm = 0xFDFF
kmovq %rax, %k2
kandq %k2, %k1, %k1
kshiftd $8, %k0, %k2
kshiftlq $63, %k2, %k2
kshiftlq $54, %k2, %k2
korq %k2, %k1, %k1
movq $-1025, %rax # imm = 0xFBFF
kmovq %rax, %k2
kandq %k2, %k1, %k1
kshiftd $11, %k0, %k2
kshiftlq $63, %k2, %k2
korq %k2, %k1, %k1
movq $-2049, %rax # imm = 0xF7FF
kmovq %rax, %k2
kandq %k2, %k1, %k1
kshiftd $10, %k0, %k2
kshiftlq $63, %k2, %k2
korq %k2, %k1, %k1
movq $-4097, %rax # imm = 0xEFFF
kmovq %rax, %k2
kandq %k2, %k1, %k1
kshiftd $13, %k0, %k2
kshiftlq $63, %k2, %k2
korq %k2, %k1, %k1
movq $-8193, %rax # imm = 0xDFFF
kmovq %rax, %k2
kandq %k2, %k1, %k1
kshiftd $12, %k0, %k2
kshiftlq $63, %k2, %k2
korq %k2, %k1, %k1
movq $-16385, %rax # imm = 0xBFFF
kmovq %rax, %k2
kandq %k2, %k1, %k1
kshiftd $15, %k0, %k2
kshiftlq $63, %k2, %k2
korq %k2, %k1, %k1
movq $-32769, %rax # imm = 0xFFFF7FFF
kmovq %rax, %k2
kandq %k2, %k1, %k1
kshiftd $14, %k0, %k2
kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftlq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $41, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-8388609, %rax # imm = 0xFFF7FFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $22, %k0, %k2
; CHECK-NEXT: kshiflq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $40, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-16777217, %rax # imm = 0xFEFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $25, %k0, %k2
; CHECK-NEXT: kshiflq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $39, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-33554433, %rax # imm = 0xFDFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $24, %k0, %k2
; CHECK-NEXT: kshiflq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $38, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-67108865, %rax # imm = 0xFBFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $27, %k0, %k2
; CHECK-NEXT: kshiflq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $37, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-134217729, %rax # imm = 0xF7FFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $26, %k0, %k2
; CHECK-NEXT: kshiflq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $36, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-268435457, %rax # imm = 0xEFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftrd $29, %k0, %k2
; CHECK-NEXT: kshiflq $63, %k2, %k2
; CHECK-NEXT: kshiftrq $35, %k2, %k2
; CHECK-NEXT: korq %k2, %k1, %k1
; CHECK-NEXT: movq $-536870913, %rax # imm = 0xDFFFFFFF
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
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; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $10, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $20, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-17592186044417, %rax # imm = 0xFFFFEFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $13, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $20, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-35184372088833, %rax # imm = 0xFFFFDFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $12, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $19, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-70368744177665, %rax # imm = 0xFFFFBFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $15, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $17, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-140737488355329, %rax # imm = 0xFFFF7FFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $14, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $16, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-281474976710657, %rax # imm = 0xFFFEFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $17, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $15, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-562949953421313, %rax # imm = 0xFFFDFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $24, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftreq $6, %k2, %k2
korq %k2, %k0, %k0
movabsq $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $27, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftreq $5, %k2, %k2
korq %k2, %k0, %k0
movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $26, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftreq $4, %k2, %k2
korq %k2, %k0, %k0
movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $29, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftreq $3, %k2, %k2
korq %k2, %k0, %k0
movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $28, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftreq $2, %k2, %k2
korq %k2, %k0, %k0
movabsq $-4611686018427387905, %rax # imm = 0xBFFFFFFFFFFFFFFF
kmovq %rax, %k2
kandq %k2, %k0, %k0
kshiftrd $31, %k1, %k2
kshiftlq $62, %k2, %k2
kshiftreq $1, %k2, %k0
korq %k2, %k0, %k0
kshiftrd $30, %k1, %k1
kshiftlq $61, %k1, %k1
korq %k1, %k0, %k1
vmovdqu8 %ymm1, (%rsi) [%k1]
; CHECK-NEXT:  kshiftrq $32, %k1, %k1
; CHECK-NEXT:  vmovdqu8 %ymm0, 32(%rsi) { %k1 }
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
%a = load <64 x i8>, <64 x i8>* %x
%b = icmp eq <64 x i8> %a, zeroinitializer
%shuf = shufflevector <64 x i1> %b, undef, <64 x i32> <i32 1, i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 12, i32 13, i32 14, i32 15, i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 32, i32 33, i32 34, i32 35, i32 36, i32 37, i32 38, i32 39, i32 40, i32 41, i32 42, i32 43, i32 44, i32 45, i32 46, i32 47, i32 48, i32 49, i32 50, i32 51, i32 52, i32 53, i32 54, i32 55, i32 56, i32 57, i32 58, i32 59, i32 60, i32 61, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 %i2, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>* , i32 , <64 x i1>)

@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
declare i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
 ; CHECK-LABEL: v64i1_inline_asm:
 ; CHECK:  # %bb.0:
 ; CHECK-NEXT:  kmovq {{.*}} (%rip), %k0
 ; CHECK-NEXT:  #APP
 ; CHECK-NEXT:  #NO_APP
 ; CHECK-NEXT:  kmovq %k0, {{.*}} (%rip)
 ; CHECK-NEXT:  movl -{{[0-9]+}} (%rsp), %eax
 ; CHECK-NEXT:  retq
 %1 = alloca i32, align 4
 %2 = load i64, i64* @mem64_src, align 8
 %3 = call i64 asm "", "=k.k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
store i64 %3, i64* @mem64_dst, align 8
%4 = load i32, i32* %1, align 4
ret i32 %4
}

define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: cmp_v8i64_sext:
 ; CHECK:  # %bb.0:
 ; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
 ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
 ; CHECK-NEXT:  vpcmptgq 32(%rdi), %ymm1, %ymm1
 ; CHECK-NEXT:  vpcmptgq (%rdi), %ymm0, %ymm0
 ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
 ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
 ; CHECK-NEXT:  vzeroupper
 ; CHECK-NEXT:  retq
define void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {  
; CHECK-LABEL: cmp_v8i64_zext:  
; CHECK: # %bb.0:  
; CHECK-NEXT: vmovdqa (%rsi), %ymm0  
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1  
; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1  
; CHECK-NEXT: vpsrlq $63, %ymm1, %ymm1  
; CHECK-NEXT: vpsrlq $63, %ymm0, %ymm0  
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)  
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
%x = load <8 x i64>, <8 x i64>* %xptr  
%y = load <8 x i64>, <8 x i64>* %yptr  
%cmp = icmp slt <8 x i64> %x, %y  
%ext = zext <8 x i1> %cmp to <8 x i64>  
store <8 x i64> %ext, <8 x i64>* %zptr  
ret void  
}

define <16 x i8> @var_rotate_v16i8(<16 x i8> %a, <16 x i8> %b) nounwind "min-legal-vector-width"="256" {  
; CHECK-LABEL: var_rotate_v16i8:  
; CHECK: # %bb.0:  
; CHECK-NEXT: vmovdqa {{.*#+}} xmm2 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]  
; CHECK-NEXT: vpsubb %xmm1, %xmm2, %xmm2  
; CHECK-NEXT: vpmovzxwb {{.*#+}} ymm1 =  
; CHECK-NEXT: vmovdqa {{.*#+}} ymm0 =  
; CHECK-NEXT: vpsllvw %ymm1, %ymm0, %ymm1  
; CHECK-NEXT: vpmovzxwb {{.*#+}} ymm2 =  
%x = load <8 x i64>, <8 x i64>* %xptr  
%y = load <8 x i64>, <8 x i64>* %yptr  
%cmp = icmp slt <8 x i64> %x, %y  
%ext = sext <8 x i64> %cmp to <8 x i64>  
store <8 x i64> %ext, <8 x i64>* %zptr  
ret void  
}
define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
    # %bb.0:
    ; CHECK-NEXT: vpsllw $4, %ymm0, %ymm2
    ; CHECK-NEXT: vpsllw $4, %ymm0, %ymm3
    ; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
    ; CHECK-NEXT: vpsllw $5, %ymm1, %ymm1
    ; CHECK-NEXT: vpblendvb %ymm1, %ymm3, %ymm0, %ymm0
    ; CHECK-NEXT: vpsllw $2, %ymm0, %ymm2
    ; CHECK-NEXT: vpsllw $6, %ymm0, %ymm3
    ; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3
    ; CHECK-NEXT: vpaddb %ymm1, %ymm1, %ymm1
    ; CHECK-NEXT: vpsllw $7, %ymm0, %ymm2
    ; CHECK-NEXT: vpaddb %ymm0, %ymm0, %ymm3
    ; CHECK-NEXT: vpternlogq $248, {{.*}}(%rip), %ymm2, %ymm3
    ; CHECK-NEXT: vpaddb %ymm1, %ymm1, %ymm1
    ; CHECK-NEXT: vpsllw %ymm2, %ymm0, %ymm3
    ; CHECK-NEXT: retq
    %b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b
    %shl = shl <16 x i8> %a, %b
    %lshr = lshr <16 x i8> %a, %b8
    %or = or <16 x i8> %shl, %lshr
    ret <16 x i8> %or
}

define <32 x i8> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: splatvar_rotate_v32i8:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vpbroadcastb %xmm1, %xmm1
    ; CHECK-NEXT: vpand {{.*}}(%rip), %xmm1, %xmm1
    ; CHECK-NEXT: vpmovzxbq {{.*#+}} xmm2 =
                   xmm1[0],zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,
    ; CHECK-NEXT: vpsllw %xmm2, %ymm0, %ymm3

define <32 x i8> @constant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: constant_rotate_v32i8:
; CHECK-AVX512:     # %bb.0:
; CHECK-AVX512-NEXT:     vpshld %y, %xmm0, %ymm1
; CHECK-AVX512-NEXT:     vpand {{.*}}(%rip), %ymm1, %ymm1
; CHECK-AVX512-NEXT:     vbroadcasti128 {{.*#+}} ymm2 =
; CHECK-AVX512-NEXT:     [8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
; CHECK-AVX512-NEXT:     # ymm2 = mem[0,1,0,1]
; CHECK-AVX512-NEXT:     vpblendv %ymm2, %ymm1, %ymm0, %ymm1
; CHECK-AVX512-NEXT:     vpshld %y, %ymm0, %ymm3
; CHECK-AVX512-NEXT:     vpand {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:     vpaddb %ymm2, %ymm2, %ymm2
; CHECK-AVX512-NEXT:     vpblendv %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:     vpaddb %ymm1, %ymm1, %ymm3
; CHECK-AVX512-NEXT:     vpaddb %ymm2, %ymm2, %ymm2
; CHECK-AVX512-NEXT:     vpblendv %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:     vpxor %xmm2, %xmm2, %xmm2
; CHECK-AVX512-NEXT:     vpunpckhlb {{.*#+}} ymm3 =
; CHECK-AVX512-NEXT:     ymm0[8],ymm2[8],ymm0[9],ymm2[9],ymm0[10],ymm2[10],ymm0[11],ymm2[11],ymm0[12],ymm2[12],ymm0[13],ymm2[13],ymm0[14],ymm2[14],ymm0[15],ymm2[15],ymm0[24],ymm2[24],ymm0[25],ymm2[25],ymm0[26],ymm2[26],ymm0[27],ymm2[27],ymm0[28],ymm2[28],ymm0[29],ymm2[29],ymm0[30],ymm2[30],ymm0[31],ymm2[31]
; CHECK-AVX512-NEXT:     vpshldw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:     vpshldw $8, %ymm3, %ymm3
; CHECK-AVX512-NEXT:     vpunpckhbw {{.*#+}} ymm0 =
ymm0[0], ymm2[0], ymm0[1], ymm2[1], ymm0[2], ymm2[2], ymm0[3], ymm2[3], ymm0[4], ymm2[4], ymm0[5], ymm2[5], ymm0[6], ymm2[6], ymm0[7], ymm2[7], ymm0[16], ymm2[16], ymm0[17], ymm2[17], ymm0[18], ymm2[18], ymm0[19], ymm2[19], ymm0[20], ymm2[20], ymm0[21], ymm2[21], ymm0[22], ymm2[22], ymm0[23], ymm2[23]

; CHECK-AVX512-NEXT: vpsllw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpsrlw $8, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpackuswb %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT: vpor %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT: retq

; CHECK-VBMI-LABEL: constant_rotate_v32i8:
; CHECK-VBMI: # %bb.0:
; CHECK-VBMI-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-VBMI-NEXT: vpaad {{.*}}(%rip), %ymm1, %ymm1
; CHECK-VBMI-NEXT: vbroadcast128 {{.*#+}} ymm2 = [8192, 24640, 41088, 57536, 57344, 41152, 24704, 8256, 8192, 24640, 41088, 57536, 57344, 41152, 24704, 8256]
; CHECK-VBMI-NEXT: # ymm2 = mem[0, 1, 0, 1]
; CHECK-VBMI-NEXT: vpbldenvb %ymm2, %ymm1, %ymm0, %ymm1
; CHECK-VBMI-NEXT: vpsllw $2, %ymm1, %ymm3
; CHECK-VBMI-NEXT: vpaad {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT: vpaddb %ymm2, %ymm1, %ymm2
; CHECK-VBMI-NEXT: vpbldenvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpaddb %ymm1, %ymm2, %ymm2
; CHECK-VBMI-NEXT: vpbldenvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpbldenvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT: vpxor %xmm2, %xmm2, %xmm2
; CHECK-VBMI-NEXT: vpunpckhbw {{.*#+}} ymm3 = ymm0[8], ymm2[8], ymm0[9], ymm2[9], ymm0[10], ymm2[10], ymm0[11], ymm2[11], ymm0[12], ymm2[12], ymm0[13], ymm2[13], ymm0[14], ymm2[14], ymm0[15], ymm2[15], ymm0[24], ymm2[24], ymm0[25], ymm2[25], ymm0[26], ymm2[26], ymm0[27], ymm2[27], ymm0[28], ymm2[28], ymm0[29], ymm2[29], ymm0[30], ymm2[30], ymm0[31], ymm2[31]
; CHECK-VBMI-NEXT: vpsllw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT: vpunpckhlw {{.*#+}} ymm0 = ymm0[0], ymm2[0], ymm0[1], ymm2[1], ymm0[2], ymm2[2], ymm0[3], ymm2[3], ymm0[4], ymm2[4], ymm0[5], ymm2[5], ymm0[6], ymm2[6], ymm0[7], ymm2[7], ymm0[16], ymm2[16], ymm0[17], ymm2[17], ymm0[18], ymm2[18], ymm0[19], ymm2[19], ymm0[20], ymm2[20], ymm0[21], ymm2[21], ymm0[22], ymm2[22], ymm0[23], ymm2[23]
; CHECK-VBMI-NEXT: vpsllw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-VBMI-NEXT: vunpckhwa {{.*#+}} ymm2 = [1, 3, 5, 7, 9, 11, 13, 15, 33, 35, 37, 39, 41, 43, 45, 47, 17, 19, 21, 23, 25, 27, 29, 31, 49, 51, 53, 55, 57, 59, 61, 63]
; CHECK-VBMI-NEXT: vperm2ib %ymm3, %ymm0, %ymm2
; CHECK-VBMI-NEXT: vpor %ymm2, %ymm1, %ymm0
; CHECK-VBMI-NEXT: retq

%shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 5, i8 4, i8 3, i8 2, i8 1>
%lshr = lshr <32 x i8> %a, <i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 2, i8 1, i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 7, i8 6, i8 5, i8 4, i8 3, i8 2, i8 1>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}
define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_v32i8:
; CHECK:
# %bb.0:
; CHECK-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
; CHECK-NEXT: retq
%shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4,
i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}
define <32 x i8> @splatconstant_rotate_mask_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: splatconstant_rotate_mask_v32i8:
; CHECK:
# %bb.0:
; CHECK-NEXT: vpsllw $4, %ymm0, %ymm1
; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0
; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
; CHECK-NEXT: vpand {{.*}}(%rip), %ymm0, %ymm0
; CHECK-NEXT: retq
%shl = shl <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8
4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4,
i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
%rmask = and <32 x i8> %lshr, <i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55,
i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8
55>
%lmask = and <32 x i8> %shl, <i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33,
i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8
33>
%or = or <32 x i8> %lmask, %rmask
ret <32 x i8> %or
}
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1. Definitions.

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 421


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add_lldb_library(lldbPluginObjectContainerBSDArchive PLUGIN
ObjectContainerBSDArchive.cpp

LINK_LIBS
  llbCore
  llbHost
  llbSymbol

LINK_COMPONENTS
  Support
)

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target triple = "hexagon"

define hidden fastcc void @fred() unnamed_addr #0 {
entry:
  br i1 undef, label %while.end, label %while.body.lr.ph
while.body.lr.ph:
  ; preds = %entry
  br label %while.body
while.body:
  ; preds = %exit, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [%cgep22, %exit.2], [undef, %while.body.lr.ph]
  switch i32 undef, label %exit [
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]
sw.bb.i:                                  ; preds = %while.body
  unreachable
sw.bb3.i:                                  ; preds = %while.body
  unreachable
exit:
  ; preds = %while.body
  switch i32 undef, label %exit.2 [
    i32 1, label %sw.bb.i17
    i32 2, label %sw.bb3.i20
  ]
sw.bb.i17:                                 ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable
sw.bb3.i20:                               ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
%3 = load i8*, i8** %2, align 4
unreachable

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

while.end:              ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py
UTC_ARGS: --function-signature --scrub-attributes
; RUN: opt -attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=4 -S %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_OPM,IS__TUNIT____,IS______OP_M,IS__TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS________OP_M,IS__TUNIT_OPM
; RUN: opt -attributor-cgscc -attributor-manifest-internal -attributor-annotate-decl-cs -S %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_NPM,IS__CGSCC____,IS______OP_M,IS__CGSCC_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor-cgscc -attributor-manifest-internal -attributor-annotate-decl-cs -S %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_OPM,IS__CGSCC____,IS________NP_M,IS__CGSCC_NPM
; Test that we only promote arguments when the caller/callee have compatible
; function attributes.

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

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

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* *arg nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* *ARG1, align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* *ARG1, align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg)
{
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
    
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

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

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* randomly %arg1) #1 {
    ;
    ; NOT_TUNIT_NPM-LABEL: define
    ( {[@+]} )@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; NOT_TUNIT_NPM-SAME: ( <8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull randomly align 64 dereferenceable(64) [[ARG1:%.*]])
    ; NOT_TUNIT_NPM-NEXT: bb:
    ; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
    ; NOT_TUNIT_NPM-NEXT: store <8 x i64>, [[TMP]], <8 x i64>* [[ARG]], align 64
    ; NOT_TUNIT_NPM-NEXT: ret void
    ;
    ; IS__TUNIT_NPM-LABEL: define
    ( {[@+]} )@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; IS__TUNIT_NPM-SAME: ( <8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
    ; IS__TUNIT_NPM-NEXT: bb:
    ; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
    ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; IS__TUNIT_NPM-NEXT: ret void
    ;
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
    ;
    ; IS__TUNIT_OPM-LABEL: define ( {[@+]} )@avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; IS__TUNIT_OPM-SAME: ( <8 x i64>* nocapture writeonly [[ARG:%.*]])
    ; IS__TUNIT_OPM-NEXT: bb:
    ; IS__TUNIT_OPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
    ; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; IS__TUNIT_OPM-NEXT: ret void
    ;
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
    ;
    ; IS__TUNIT_NPM-LABEL: define ( {[@+]} )@avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; IS__TUNIT_NPM-SAME: ( <8 x i64>* nocapture nofree nonnull writeonly [[ARG:%.*]])
    ; IS__TUNIT_NPM-NEXT: bb:
    ; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
    ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
    ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
    ; IS__TUNIT_NPM-NEXT: ret void
    ;
    bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
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bb:

; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__UNIT_NPM-NEXT: bb:
; IS__UNIT_NPM-NEXT: [TMP:%.*] = alloc <8 x i64>, align 32
; IS__UNIT_NPM-NEXT: [TMP2:%.*] = alloc <8 x i64>, align 32
; IS__UNIT_NPM-NEXT: [TMP3:%.*] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__UNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__UNIT_NPM-NEXT: [TMP0:%.*] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__UNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__UNIT_NPM-NEXT: [TMP4:%.*] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__UNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__UNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [TMP:%.*] = alloc <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [TMP2:%.*] = alloc <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [TMP3:%.*] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [TMP4:%.*] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [TMP:%.*] = alloc <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [TMP2:%.*] = alloc <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [TMP3:%.*] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT: [TMP4:%.*] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

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

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
  ;
  ; NOT_TUNIT_NPM-LABEL: define
  ( {{[^@]+}} ) @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
  ; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
  ; NOT_TUNIT_NPM-NEXT: bb:
  ; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
  ; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
  ; NOT_TUNIT_NPM-NEXT: ret void
  
  ; IS__TUNIT_NPM-LABEL: define
  ( {{[^@]+}} ) @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
  ; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
  ; IS__TUNIT_NPM-NEXT: bb:
  ; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
  ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
  ; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
  ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
  ; IS__TUNIT_NPM-NEXT: ret void
  
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  ;
  ; IS__TUNIT_OPM-LABEL: define ( {{[^@]+}} ) @avx512_legal512_prefer256_call_avx512_legal512_prefer256
  ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS__TUNIT_OPM-NEXT: bb:
  ; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_OPM-NEXT: [[TMP2:%%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:    [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:    call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:    call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(%8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], %8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:    ret void

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

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(%8 x i64>* %arg, %8 x i64>* readonly %arg1) #0 {

; NOT_TUNIT_NPM-LABEL: define
{[^@]+}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

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

; bb:
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(%8 x i64) %arg {  
  ; @IS__TUNIT_OPM-LABEL: define { [([^@]+)]}@avx512_legal512_prefer256_call_avx512_legal512_prefer512  
  ; @IS__TUNIT_OPM-SAME: (%8 x i64)* nocapture writeonly [[ARG:%.*]]  
  ; @IS__TUNIT_OPM-NEXT: bb:  
  ; @IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca %8 x i64, align 32  
  ; @IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca %8 x i64, align 32  
  ; @IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast %8 x i64* [[TMP]] to i8*  
  ; @IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)  
  ; @IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(%8 x i64)* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], %8 x i64)* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]]  
  ; @IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load %8 x i64, %8 x i64* [[TMP2]], align 64  
  ; @IS__TUNIT_OPM-NEXT: store %8 x i64 [[TMP4]], %8 x i64* [[ARG]], align 2  
  ; @IS__TUNIT_OPM-NEXT: ret void  
  ;  
  ; @IS__CGSCC_OPM-LABEL: define { [([^@]+)]}@avx512_legal512_prefer256_call_avx512_legal512_prefer512  
  ; @IS__CGSCC_OPM-SAME: (%8 x i64)* nocapture writeonly [[ARG:%.*]]  
  ; @IS__CGSCC_OPM-NEXT: bb:  
  ; @IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca %8 x i64, align 32  
  ; @IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca %8 x i64, align 32  
  ; @IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast %8 x i64* [[TMP]] to i8*  
  ; @IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)  
  ; @IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512Legal512_prefer512(%8 x i64)* %arg} #1 {  
  ;
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])

; IS_CGSCC_OPM-NEXT: [TMP4:.*] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS_CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS_CGSCC_OPM-NEXT: ret void

; IS_CGSCC_NPM-LABEL: define [[[@]+]] @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS_CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:.*]])
; IS_CGSCC_NPM-NEXT: bb:
; IS_CGSCC_NPM-NEXT: [[TMP:.*]] = alloca <8 x i64>, align 32
; IS_CGSCC_NPM-NEXT: [[TMP2:.*]] = alloca <8 x i64>, align 32
; IS_CGSCC_NPM-NEXT: [[TMP3:.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS_CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; IS_CGSCC_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS_CGSCC_NPM-NEXT: [[TMP4:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS_CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS_CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

; NOT_TUNIT_NPM-LABEL: define
[[[@]+]] @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

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

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

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should not promote
define internal fastcc void callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg)
{
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg1)
{
  %tmp1 = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp1, <8 x i64>* %arg1
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg)
{
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg1)
{
  %tmp1 = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp1, <8 x i64>* %arg1
  ret void
}
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)  
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32  
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2  
ret void  
}

; This should promote  
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {  
    ;  
    ; NOT_TUNIT_NPM-LABEL: define {{[^@]+}} @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256  
    ; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])  
    ; NOT_TUNIT_NPM-NEXT: bb:  
    ; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64  
    ; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64  
    ; NOT_TUNIT_NPM-NEXT: ret void  
    ;  
    ; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256  
    ; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* [[TMP0:%.*]])  
    ; IS__TUNIT_NPM-NEXT: bb:  
    ; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64  
    ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64  
    ; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64  
    ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64  
    ; IS__TUNIT_NPM-NEXT: ret void  
    ;  
    bb:  
    %tmp = load <8 x i64>, <8 x i64>* %arg1  
    store <8 x i64> %tmp, <8 x i64>* %arg  
    ret void  
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {  
    ;  
    ; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256  
    ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])  
    ; IS__TUNIT_OPM-NEXT: bb:  
    ; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32  
    ; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32  
    ; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*  
    ; IS__TUNIT_OPM-NEXT: call void @Ilvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)  
    ; IS__TUNIT_OPM-NEXT: call fastcc void  
    @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]]
: IS__UNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__UNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__UNIT_OPM-NEXT:  ret void
;
: IS__UNIT_NPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
: IS__UNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
: IS__UNIT_NPM-NEXT: bb:
: IS__UNIT_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__UNIT_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__UNIT_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__UNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
: IS__UNIT_NPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
: IS__UNIT_NPM-NEXT:  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
: IS__UNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
: IS__UNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
: IS__UNIT_NPM-NEXT:  ret void
;
: IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
: IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
: IS__CGSCC_OPM-NEXT: bb:
: IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
: IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
: IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
: IS__CGSCC_OPM-NEXT:  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]]

; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256
NOT_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* noalias nocapture nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[ARG1_PRIV]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256
IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void

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

}
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; RUN: llc -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

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

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

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

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

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

define void @zext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'zext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ret void
}

define void @zext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'zext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ret void
}

define void @zext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'zext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ret void
}
<16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'zext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
#define void @sext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'sext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = sext <8 x i8> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = sext <8 x i16> undef to <8 x i64>
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
    ret void
}
; VEC256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; VEC256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; VEC256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'sext256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'sext256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; %A = sext <8 x i8> undef to <8 x i64>
%B = sext <8 x i16> undef to <8 x i64>
%C = sext <8 x i32> undef to <8 x i64>
%D = sext <16 x i8> undef to <16 x i32>
%E = sext <16 x i16> undef to <16 x i32>
%F = sext <32 x i8> undef to <32 x i16>
ret void
}
define void @sext512() "min-legal-vector-width"="512" {
; AVX-LABEL: 'sext512'

define void @trunc256() "min-legal-vector-width"="256" { 
  ; AVX-LABEL: 'trunc256'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i8> undef to <32 x i16>
  ret void
}

define void @trunc256() { 
  ; AVX512VL256-LABEL: 'trunc256'
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
  ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i8> undef to <32 x i16>
  ret void
}
<16 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; AVX512VL512-LABEL: 'trunc256'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'trunc256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
%A = trunc <8 x i64> undef to <8 x i32>
%B = trunc <8 x i64> undef to <8 x i16>
%C = trunc <8 x i64> undef to <8 x i8>
%D = trunc <16 x i32> undef to <16 x i16>
%E = trunc <16 x i32> undef to <16 x i8>
%F = trunc <32 x i16> undef to <32 x i8>
ret
}

define i32 @zext256_vXi1() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'zext256_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
}
<table>
<thead>
<tr>
<th>Size</th>
<th>Estimated Cost</th>
<th>Instruction</th>
<th>Result Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;2 x i64</td>
<td>2</td>
<td>%V2i64</td>
<td>zext &lt;2 x i1&gt; undef to &lt;2 x i64&gt;</td>
</tr>
<tr>
<td>&lt;4 x i64</td>
<td>2</td>
<td>%V4i64</td>
<td>zext &lt;4 x i1&gt; undef to &lt;4 x i64&gt;</td>
</tr>
<tr>
<td>&lt;8 x i64</td>
<td>5</td>
<td>%V8i64</td>
<td>zext &lt;8 x i1&gt; undef to &lt;8 x i64&gt;</td>
</tr>
<tr>
<td>&lt;2 x i1</td>
<td>2</td>
<td>%V2i1</td>
<td>zext &lt;2 x i1&gt; undef to &lt;2 x i16&gt;</td>
</tr>
<tr>
<td>&lt;4 x i16</td>
<td>2</td>
<td>%V4i16</td>
<td>zext &lt;4 x i1&gt; undef to &lt;4 x i16&gt;</td>
</tr>
<tr>
<td>&lt;8 x i16</td>
<td>5</td>
<td>%V8i16</td>
<td>zext &lt;8 x i1&gt; undef to &lt;8 x i16&gt;</td>
</tr>
<tr>
<td>&lt;2 x i16</td>
<td>12</td>
<td>%V16i16</td>
<td>zext &lt;16 x i1&gt; undef to &lt;16 x i16&gt;</td>
</tr>
<tr>
<td>&lt;32 x i16</td>
<td>24</td>
<td>%V32i16</td>
<td>zext &lt;32 x i1&gt; undef to &lt;32 x i16&gt;</td>
</tr>
<tr>
<td>&lt;2 x i8</td>
<td>6</td>
<td>%V2i8</td>
<td>zext &lt;2 x i1&gt; undef to &lt;2 x i8&gt;</td>
</tr>
<tr>
<td>&lt;4 x i8</td>
<td>6</td>
<td>%V4i8</td>
<td>zext &lt;4 x i1&gt; undef to &lt;4 x i8&gt;</td>
</tr>
<tr>
<td>&lt;8 x i8</td>
<td>6</td>
<td>%V8i8</td>
<td>zext &lt;8 x i1&gt; undef to &lt;8 x i8&gt;</td>
</tr>
<tr>
<td>&lt;16 x i8</td>
<td>12</td>
<td>%V16i8</td>
<td>zext &lt;16 x i1&gt; undef to &lt;16 x i8&gt;</td>
</tr>
<tr>
<td>&lt;32 x i8</td>
<td>25</td>
<td>%V32i8</td>
<td>zext &lt;32 x i1&gt; undef to &lt;32 x i8&gt;</td>
</tr>
<tr>
<td>&lt;64 x i8</td>
<td>50</td>
<td>%V64i8</td>
<td>zext &lt;64 x i1&gt; undef to &lt;64 x i8&gt;</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>ret i32</td>
<td>None</td>
</tr>
</tbody>
</table>
define i32 @sext256_vXi1() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'sext256_vXi1'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i64 = sext <16 x i1> undef to <16 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
  ; AVX-LABEL: 'trunc_vXi1'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 14 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2
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SKX512-LABEL: 'trunc_vXi1'

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>

SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
%V2i64 = trunc <2 x i64> undef to <2 x i1>
%V4i64 = trunc <4 x i64> undef to <4 x i1>
%V8i64 = trunc <8 x i64> undef to <8 x i1>
%V16i64 = trunc <16 x i64> undef to <16 x i1>
%V32i64 = trunc <32 x i64> undef to <32 x i1>
%V64i64 = trunc <64 x i64> undef to <64 x i1>

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

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

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

ret i32 undef
}
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No license file was found, but licenses were detected in source scan.
1.29 libnuma 2.0.12-3.el7

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

A. HISTORY OF THE SOFTWARE
=================================

contextlib2 is a derivative of the contextlib module distributed by the PSF
as part of the Python standard library. Accordingly, it is itself redistributed
under the PSF license (reproduced in full below). As the contextlib module
was added only in Python 2.5, the licenses for earlier Python versions are
not applicable and have not been included.

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see http://www.opensource.org
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releases have also been GPL-compatible; the table below summarizes
the various releases that included the contextlib module.

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 547
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  550
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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSSLCAertificateFile.#

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History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/dao/EmptyResultDataAccessException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/InvalidIsolationLevelException.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/work/WorkManagerTaskExecutor.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/TransactionOperations.java
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  jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
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  jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
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* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/support/ResourceTransactionManager.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/TransactionSystemException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cc/InvalidResultSetAccessException.java
* /opt/cola/permits/1111238447_1607876017.04/0/spring-tx-3-0-7-release-sources-1-jar/org/springframework/jca/cc/CannotGetCciConnectionException.java
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 * An initialization parameter
 *
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 *
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/**
 * Customizes a method that is exposed as a Web Service operation.
 * The associated method must be public and its parameters return value,
 * and exceptions must follow the rules defined in JAX-RPC 1.1, section 5.
 *
 * The method is not required to throw java.rmi.RemoteException.
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  jar/javax/jws/WebResult.java
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/**
 * Indicates that the given @WebMethod has only an input message and no output. Typically, a oneway method
 * returns
 * the thread of control to the calling application prior to executing the actual business method. A 181 processor
 * should report an error if an operation marked @Oneway has a return value or Holder parameters, or declares any
 * checked exceptions.
 *
 * @author Copyright (c) 2004 by BEA Systems, Inc. All Rights Reserved.
 */

Found in path(s):
* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-l-0-mrl-redhat-6-sources-jar/javax/jws/Oneway.java
No license file was found, but licenses were detected in source scan.

/**
 * Associates the Web Service with an externally defined handler chain. This annotation is typically used in
 * scenarios
 * where embedding the handler configuration directly in the Java source is not appropriate; for example, where the
 * handler configuration needs to be shared across multiple Web Services, or where the handler chain consists of
 * handlers for multiple transports.
 *
 * It is an error to combine this annotation with the @SOAPMessageHandlers annotation.
 *
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 */

Found in path(s):
* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-l-0-mrl-redhat-6-sources-
  jar/javax/jws/HandlerChain.java
No license file was found, but licenses were detected in source scan.

/**
 * A single SOAP message handler
 *
 * @deprecated As of JSR-181 2.0 with no replacement.
 *
 * @author Copyright (c) 2004 by BEA Systems, Inc. All Rights Reserved.
 */
*/

Found in path(s):
* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-
  jar/javax/jws/soap/SOAPMessageHandler.java
No license file was found, but licenses were detected in source scan.

/**
 * Specifies the mapping of the Web Service onto the SOAP message protocol.
 * 
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 */

Found in path(s):
* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-
  jar/javax/jws/soap/SOAPBinding.java
No license file was found, but licenses were detected in source scan.

/**
 * Customizes the mapping of an individual parameter to a Web Service message part and XML element.
 * 
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 */

Found in path(s):
* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-
  jar/javax/jws/WebParam.java
No license file was found, but licenses were detected in source scan.

/**
 * Specifies a list of SOAP protocol handlers that run before and after business methods on the Web Service. These
 * handlers are called in response to SOAP messages targeting the service.
 * <p>
 * The @SOAPMessageHandlers annotation is an array of SOAPMessageHandler types. The handlers are run in the
 * order in
 * which they appear in the annotation, starting with the first handler in the array.
 * 
 * @deprecated As of JSR-181 2.0 with no replacement.
 * 
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 */

Found in path(s):
* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-
  jar/javax/jws/soap/SOAPMessageHandlers.java
No license file was found, but licenses were detected in source scan.
/**
 * Marks a Java class as implementing a Web Service, or a Java interface as defining a Web Service interface.
 *
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 */

Found in path(s):
* /opt/cola/permits/1077226945_1601879998.77/0/jsr181-api-1-0-mr1-redhat-6-sources-jar/javax/jws/WebService.java

1.50 jboss-logging 3.2.0.Final
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1.51 hibernate-validator 6.1.6.Final

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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/util/TypeHelper.java
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Found in path(s):
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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-mapping-2.0.xsd
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-configuration-2.0.xsd
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/overview.html
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-configuration-1.0.xsd
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-configuration-1.1.xsd
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-mapping-1.1.xsd
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/maven/org.hibernate.validator/hibernate-validator/pom.xml
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/META-INF/validation-mapping-1.0.xsd

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/*
 * Hibernate Validator, declare and validate application constraints
 * */
/**
 * Retrieves constraint related meta data for the parameters of the given
 * executable.
 *
 * @param javaBeanExecutable The executable of interest.
 *
 * @return A list with parameter meta data for the given executable.
 */

/*
Hibernate Validator, declare and validate application constraints
*
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*/

/*
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* </p>
* Script expressions can be written in any scripting or expression language,
* for which a <a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [@link javax.validation.ParameterNameProvider]. The default provider will
* return the actual parameter names, if the -parameters compiler option
* has been enabled, and [@code arg0], [@code arg1] etc. otherwise.
* </p>
* </p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* </pre>
* [@code @ParameterScriptAssert(script = "start.before(end)", lang = "javascript")
* public void createEvent(Date start, Date end) { ... }
* ]

*/

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* Can be specified on any method or constructor.
  
  * @author Gunnar Morling

Found in path(s):
  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
  
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  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/hibernateValidatorPermission.java
  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/Mod10CheckValidator.java
  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/valueextraction/ValueExtractorResolver.java
  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/constraintvalidation/ComposingConstraintTree.java
  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/PastValidatorForDate.java
  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/cfg/defs/SizeDef.java
  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/ISBNValidator.java
  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/MinValidatorForMonetaryAmount.java
  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/cfg/ConstraintMapping.java
  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/util/classhierarchy/Filters.java
  * /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/validationcontext/ReturnValueExecutableValidationContext.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/engine/valuecontext/BeanValueContext.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/constraints/Currency.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/xml/mapping/AbstractMultiValuedElementStaxBuilder.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/futureorpresent/FutureOrPresentValidatorForMingu
oDate.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/cfg/defs/PastDef.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/engine/path/NodeImpl.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/xml/mapping/AbstractConstrainedElementStaxBuilder.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/past/AbstractPastEpochBasedValidator.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/money/NegativeValidatorForMonetaryAmount.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/money/EANValidator.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/cfg/defs/CodePointLengthDef.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/spec/ScriptEvaluator.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/engine/valueextraction/ValueExtractorHelper.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/util/privilegedactions/GetDeclaredMethod.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/money/CPFValidator.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/money/PositiveOrZeroValidatorForMonetaryAmount.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/money/DecimalMinValidatorForBigInte
er.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/time/PastValidatorForMonthDay.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/metadata/aggregated/MetaDataBuilder.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/money/DecimalMinValidatorForBigInte
er.java
* /opt/cola/permits/109933531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
jar/org/hibernate/validator/internal/constraintvalidators/bv/money/PositiveOrZeroValidatorForMonetaryAmount.java

jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForMonthDay.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForInstant.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/cfg/context/ConstraintContextImplBase.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/engine/validationcontext/PropertyValidationContext.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/cfg/context/AnnotationIgnoreOptions.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraints/UniqueElements.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/util/privilegedactions/GetResources.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/NotBlankValidator.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForJapaneseDate.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/money/NegativeOrZeroValidatorForMonetaryAmount.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/resourceloading/PlatformResourceBundleLocator.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/cfg/context/package-info.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/internal/xml/mapping/GroupConversionStaxBuilder.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/validator/internal/constraintvalidators/bv/time/pastorpresent/PastOrPresentValidatorForThaiBuddhistDate.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-jar/org/hibernate/validator/validator/internal/constraintvalidators/bv/number/bound/decimal/DecimalMaxValidatorForBigIntegr

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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/internal/metadata/location/GetterConstraintLocation.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/internal/constraintvalidators/bv/money/DecimalMaxValidatorForMonetaryAmount.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/internal/engine/resolver/package-info.java
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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/HibernateValidatorConfiguration.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/cfg/defs/PositiveOrZeroDef.java
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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/internal/util/logging/formatter/TypeFormatter.java
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* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources.jar/org/hibernate/validator/size/SizeValidatorForArraysOfChar.java
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jar/org/hibernate/validator/internal/engine/valueextraction/CharArrayValueExtractor.java
* /opt/cola/permits/1099333531_1602486269.53/0/hibernate-validator-6-1-6-final-sources-
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1.52.1 Available under license:

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Version 2.1, February 1999

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If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

    0       all tests successful
    255     test died
    any other number  how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using current_test() they will all be effected.
Test::Builder is only thread-aware if threads.pm is loaded I<before>
Test::Builder.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More, 
Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

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=cut

Found in path(s):
* /opt/cola/permits/1148335574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/t/lib/Test/Builder.pm

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

=pod

=head1 AUTHOR

o.flebbe@gmx.de

=head1 COPYRIGHT

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See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/lib/File/Spec/Epoc.pm
No license file was found, but licenses were detected in source scan.

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

An explanation of VMS file specs can be found at

=cut

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/lib/File/Spec/VMS.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Test::Tutorial - A tutorial about writing really basic tests

=head1 DESCRIPTION

I<AHHHHHHHH!!!! NOT TESTING! Anything but testing!
Beat me, whip me, send me to Detroit, but don't make me write tests!>

I<*sob*>
Besides, I don't know how to write the damned things.

Is this you? Is writing tests right up there with writing documentation and having your fingernails pulled out? Did you open up a test and read

```
####### We start with some black magic
```

and decide that's quite enough for you?

It's ok. That's all gone now. We've done all the black magic for you. And here are the tricks...

=head2 Nuts and bolts of testing.

Here's the most basic test program.

```
#!/usr/bin/perl -w

print "1..1\n";

print 1 + 1 == 2 ? "ok 1\n" : "not ok 1\n";
```

since 1 + 1 is 2, it prints:

```
1..1
ok 1
```

What this says is: C<1..1> "I'm going to run one test." [1] C<ok> "The first test passed". And that's about all magic there is to testing. Your basic unit of testing is the I<ok>. For each thing you test, an C<ok> is printed. Simple. B<Test::Harness> interprets your test results to determine if you succeeded or failed (more on that later).

Writing all these print statements rapidly gets tedious. Fortunately, there's B<Test::Simple>. It has one function, C<ok()>.

```
#!/usr/bin/perl -w

use Test::Simple tests => 1;

ok( 1 + 1 == 2 );
```

and that does the same thing as the code above. C<ok()> is the backbone of Perl testing, and we'll be using it instead of roll-your-own from here on. If C<ok()> gets a true value, the test passes. False, it
fails.

#!/usr/bin/perl -w

use Test::Simple tests => 2;
ok( 1 + 1 == 2 );
ok( 2 + 2 == 5 );

from that comes

1..2
ok 1
not ok 2
  #   Failed test (test.pl at line 5)
  # Looks like you failed 1 tests of 2.

C<1..2> "I'm going to run two tests." This number is used to ensure your test program ran all the way through and didn't die or skip some tests. C<ok 1> "The first test passed." C<not ok 2> "The second test failed". Test::Simple helpfully prints out some extra commentary about your tests.

It's not scary. Come, hold my hand. We're going to give an example of testing a module. For our example, we'll be testing a date library, B<Date::ICal>. It's on CPAN, so download a copy and follow along. [2]

=head2 Where to start?

This is the hardest part of testing, where do you start? People often get overwhelmed at the apparent enormity of the task of testing a whole module. Best place to start is at the beginning. Date::ICal is an object-oriented module, and that means you start by making an object. So we test C<new()>.

#!/usr/bin/perl -w

use Test::Simple tests => 2;

use Date::ICal;

my $ical = Date::ICal->new;         # create an object
ok( defined $ical );               # check that we got something
ok( $ical->isa('Date::ICal') );     # and it's the right class

run that and you should get:
congratulations, you've written your first useful test.

=head2 Names

That output isn't terribly descriptive, is it? When you have two
tests you can figure out which one is #2, but what if you have 102?

Each test can be given a little descriptive name as the second
argument to C<ok()>.

use Test::Simple tests => 2;

ok( defined $ical, 'new() returned something' );
ok( $ical->isa('Date::ICal'), "and it's the right class" );

So now you'd see...

1..2
ok 1 - new() returned something
ok 2 - and it's the right class

=head2 Test the manual

Simplest way to build up a decent testing suite is to just test what
the manual says it does. [3] Let's pull something out of the
L<Date::ICal/SYNOPSIS> and test that all its bits work.

#!/usr/bin/perl -w

use Test::Simple tests => 8;

use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
    hour => 16, min => 12, sec => 47,
    tz => '0530' );

ok( defined $ical, 'new() returned something' );
ok( $ical->isa('Date::ICal'), "and it's the right class" );
ok( $ical->sec   == 47, 'sec()'   );
ok( $ical->min   == 12, 'min()'   );
ok( $ical->hour  == 16, 'hour()'  );
ok( $ical->day  == 17,   ' day()' );
ok( $ical->month == 10, ' month()' );
ok( $ical->year  == 1964, ' year()' );

run that and you get:

1..8
ok 1 - new() returned something
ok 2 - and it's the right class
ok 3 - sec()
ok 4 - min()
ok 5 - hour()
not ok 6 - day()
  # Failed test (- at line 16)
ok 7 - month()
ok 8 - year()
  # Looks like you failed 1 tests of 8.

Whoops, a failure! [4] Test::Simple helpfully lets us know on what line
the failure occurred, but not much else. We were supposed to get 17,
but we didn't. What did we get?? Dunno. We'll have to re-run the
test in the debugger or throw in some print statements to find out.

Instead, we'll switch from B<Test::Simple> to B<Test::More>. B<Test::More>
does everything B<Test::Simple> does, and more! In fact, Test::More does
things I<exactly> the way Test::Simple does. You can literally swap
Test::Simple out and put Test::More in its place. That's just what
we're going to do.

Test::More does more than Test::Simple. The most important difference
at this point is it provides more informative ways to say "ok".
Although you can write almost any test with a generic C<ok()> function, it
can't tell you what went wrong. Instead, we'll use the C<is()> function,
which lets us declare that something is supposed to be the
same as something else:

#!/usr/bin/perl -w

use Test::More tests => 8;

use Date::ICal;

$ical = Date::ICal->new( year => 1964, month => 10, day => 16,
       hour => 16, min => 12, sec => 47,
       tz => '0530' );

ok( defined $ical, 'new() returned something' );
ok( $ical->isa('Date::ICal'), " and it's the right class" );
is( $ical->sec, 47, 'sec()' );
is( $ical->min, 12, 'min()' );
is( $ical->hour, 16, 'hour()' );
is( $ical->day, 17, 'day()' );
is( $ical->month, 10, 'month()' );
is( $ical->year, 1964, 'year()' );

"Is C<$ical->sec> 47?" "Is C<$ical->min> 12?" With C<is()> in place, you get some more information

1..8
ok 1 - new() returned something
ok 2 - and it's the right class
ok 3 - sec()
ok 4 - min()
ok 5 - hour()
not ok 6 - day()
# Failed test (- at line 16)
# got: '16'
# expected: '17'
ok 7 - month()
ok 8 - year()
# Looks like you failed 1 tests of 8.

letting us know that C<$ical->day> returned 16, but we expected 17. A quick check shows that the code is working fine, we made a mistake when writing up the tests. Just change it to:

is( $ical->day, 16, 'day()' );

and everything works.

So any time you're doing a "this equals that" sort of test, use C<is()>.
It even works on arrays. The test is always in scalar context, so you can test how many elements are in a list this way. [5]

is( @foo, 5, 'foo has 5 elements' );

=head2 Sometimes the tests are wrong

Which brings us to a very important lesson. Code has bugs. Tests are code. Ergo, tests have bugs. A failing test could mean a bug in the code, but don't discount the possibility that the test is wrong.

On the flip side, don't be tempted to prematurely declare a test incorrect just because you're having trouble finding the bug. Invalidating a test isn't something to be taken lightly, and don't use
it as a cop out to avoid work.

=head2 Testing lots of values

We're going to be wanting to test a lot of dates here, trying to trick the code with lots of different edge cases. Does it work before 1970? After 2038? Before 1904? Do years after 10,000 give it trouble? Does it get leap years right? We could keep repeating the code above, or we could set up a little try/expect loop.

use Test::More tests => 32;
use Date::ICal;

my %ICal_Dates = (    # An ICal string And the year, month, date    # hour, minute and second we expect.
    '19971024T120000' =>    # from the docs.
        [ 1997, 10, 24, 12, 0, 0 ],
    '20390123T232832' =>    # after the Unix epoch
        [ 2039, 1, 23, 23, 28, 32 ],
    '19671225T000000' =>    # before the Unix epoch
        [ 1967, 12, 25, 0, 0, 0 ],
    '18990505T232323' =>    # before the MacOS epoch
        [ 1899, 5, 23, 23, 23 ],
);

while( my($ical_str, $expect) = each %ICal_Dates ) {
    my $ical = Date::ICal->new( ical => $ical_str );

    ok( defined $ical,            "new(ical => '$ical_str')" );
    ok( $ical->isa('Date::ICal'), " and it's the right class" );

    is( $ical->year,    $expect->[0], ' year()' );
    is( $ical->month,   $expect->[1], ' month()' );
    is( $ical->day,     $expect->[2], ' day()' );
    is( $ical->hour,    $expect->[3], ' hour()' );
    is( $ical->min,     $expect->[4], ' min()' );
    is( $ical->sec,     $expect->[5], ' sec()' );
}

So now we can test bunches of dates by just adding them to
C<%ICal_Dates>. Now that it's less work to test with more dates, you'll be inclined to just throw more in as you think of them. Only problem is, every time we add to that we have to keep adjusting the C<use Test::More tests =E<gt> ##> line. That can rapidly get annoying. There's two ways to make this work better.
First, we can calculate the plan dynamically using the \texttt{plan()} function.

\begin{verbatim}
use Test::More;
use Date::ICal;

my %ICal_Dates = {
    ...same as before...
};

# For each key in the hash we're running 8 tests.
plan tests => keys %ICal_Dates * 8;
\end{verbatim}

Or to be even more flexible, we use \texttt{no_plan}. This means we're just running some tests, don't know how many. [6]

\begin{verbatim}
use Test::More 'no_plan'; # instead of tests => 32
\end{verbatim}

now we can just add tests and not have to do all sorts of math to figure out how many we're running.

=head2 Informative names

Take a look at this line here

\begin{verbatim}
ok( defined $ical, "new(ical => '$ical_str')" );
\end{verbatim}

we've added more detail about what we're testing and the ICal string itself we're trying out to the name. So you get results like:

\begin{verbatim}
ok 25 - new(ical => '19971024T120000')
ok 26 -    and it's the right class
ok 27 -    year()
ok 28 -    month()
ok 29 -    day()
ok 30 -    hour()
ok 31 -    min()
ok 32 -    sec()
\end{verbatim}

if something in there fails, you'll know which one it was and that will make tracking down the problem easier. So try to put a bit of debugging information into the test names.

Describe what the tests test, to make debugging a failed test easier for you or for the next person who runs your test.
Poking around in the existing Date::ICal tests, I found this in File:tests/sanity.t [7]

```perl
#!/usr/bin/perl -w
use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0, "Epoch time of 0" );

# XXX This will only work on unix systems.
is( $t1->ical, '19700101Z', "epoch to ICal" );

is( $t1->year,  1970,  "year()" );
is( $t1->month, 1,     "month()" );
is( $t1->day,   1,     "day()" );

# like the tests above, but starting with ical instead of epoch
my $t2 = Date::ICal->new( ical => '19700101Z' );
is( $t2->ical, '19700101Z', "Start of epoch in ICal notation" );
is( $t2->epoch, 0,     "and back to ICal" );

The beginning of the epoch is different on most non-Unix operating systems [8]. Even though Perl smooths out the differences for the most part, certain ports do it differently. MacPerl is one off the top of my head. [9] We know this will never work on MacOS. So rather than just putting a comment in the test, we can explicitly say it's never going to work and skip the test.

use Test::More tests => 7;
use Date::ICal;

# Make sure epoch time is being handled sanely.
my $t1 = Date::ICal->new( epoch => 0 );
is( $t1->epoch, 0, "Epoch time of 0" );

SKIP: {
    skip('epoch to ICal not working on MacOS', 6)
    if $^O eq 'MacOS';
    is( $t1->ical, '19700101Z', "epoch to ICal" );
}
A little bit of magic happens here. When running on anything but MacOS, all the tests run normally. But when on MacOS, C<skip()> causes the entire contents of the SKIP block to be jumped over. It's never run. Instead, it prints special output that tells Test::Harness that the tests have been skipped.

1..7
ok 1 - Epoch time of 0
ok 2 # skip epoch to ICal not working on MacOS
ok 3 # skip epoch to ICal not working on MacOS
ok 4 # skip epoch to ICal not working on MacOS
ok 5 # skip epoch to ICal not working on MacOS
ok 6 # skip epoch to ICal not working on MacOS
ok 7 # skip epoch to ICal not working on MacOS

This means your tests won't fail on MacOS. This means less emails from MacPerl users telling you about failing tests that you know will never work. You've got to be careful with skip tests. These are for tests which don't work and I<never will>. It is not for skipping genuine bugs (we'll get to that in a moment).

The tests are wholly and completely skipped. [10] This will work.

SKIP: {
    skip("I don't wanna die!");
    die, die, die, die, die;
}

=head2 Todo tests

Thumbing through the Date::ICal man page, I came across this:

ical

$cical_string = $ical->ical;
Retrieves, or sets, the date on the object, using any valid ICal date/time string.

"Retrieves or sets". Hmm, didn't see a test for using C<ical()> to set the date in the Date::ICal test suite. So I'll write one.

```perl
use Test::More tests => 1;
use Date::ICal;

my $ical = Date::ICal->new;
$ical->ical('20201231Z');
is( $ical->ical, '20201231Z', 'Setting via ical()' );
```

run that and I get

```
1..1
not ok 1 - Setting via ical()
  #   Failed test (- at line 6)
  #     got: '20010814T233649Z'
  #   expected: '20201231Z'
  # Looks like you failed 1 tests of 1.
```

Whoops! Looks like it's unimplemented. Let's assume we don't have the time to fix this. [11] Normally, you'd just comment out the test and put a note in a todo list somewhere. Instead, we're going to explicitly state "this test will fail" by wrapping it in a C<TODO> block.

```perl
use Test::More tests => 1;

TODO: {
    local $TODO = 'ical($ical) not yet implemented';

    my $ical = Date::ICal->new;
    $ical->ical('20201231Z');
    is( $ical->ical, '20201231Z', 'Setting via ical()' );
}
```

Now when you run, it's a little different:

```
1..1
not ok 1 - Setting via ical() # TODO ical($ical) not yet implemented
  #   got: '20010822T201551Z'
  #   expected: '20201231Z'
```

Test::More doesn't say "Looks like you failed 1 tests of 1". That '#' TODO' tells Test::Harness "this is supposed to fail" and it treats a
failure as a successful test. So you can write tests even before you've fixed the underlying code.

If a TODO test passes, Test::Harness will report it "UNEXPECTEDLY SUCCEEDED". When that happens, you simply remove the TODO block with C<local $TODO> and turn it into a real test.

=head2 Testing with taint mode.

Taint mode is a funny thing. It's the globalest of all global features. Once you turn it on, it affects I<all> code in your program and I<all> modules used (and all the modules they use). If a single piece of code isn't taint clean, the whole thing explodes. With that in mind, it's very important to ensure your module works under taint mode.

It's very simple to have your tests run under taint mode. Just throw a C<-T> into the C<#!> line. Test::Harness will read the switches in C<#!> and use them to run your tests.

#!/usr/bin/perl -Tw

...test normally here...

So when you say C<make test> it will be run with taint mode and warnings on.

=head1 FOOTNOTES

=over 4

=item 1

The first number doesn't really mean anything, but it has to be 1. It's the second number that's important.

=item 2

For those following along at home, I'm using version 1.31. It has some bugs, which is good -- we'll uncover them with our tests.

=item 3

You can actually take this one step further and test the manual itself. Have a look at B<Test::Inline> (formerly B<Pod::Tests>).
Yes, there's a mistake in the test suite. What! Me, contrived?

We'll get to testing the contents of lists later.

But what happens if your test program dies halfway through?! Since we didn't say how many tests we're going to run, how can we know it failed? No problem, Test::More employs some magic to catch that death and turn the test into a failure, even if every test passed up to that point.

I cleaned it up a little.

Most Operating Systems record time as the number of seconds since a certain date. This date is the beginning of the epoch. Unix's starts at midnight January 1st, 1970 GMT.

MacOS's epoch is midnight January 1st, 1904. VMS's is midnight, November 17th, 1858, but vmsperl emulates the Unix epoch so it's not a problem.

As long as the code inside the SKIP block at least compiles. Please don't ask how. No, it's not a filter.

Do NOT be tempted to use TODO tests as a way to avoid fixing simple bugs!

Michael G Schwern schwern@pobox.com and the perl-qa dancers!
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* /

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-
  AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/Cwd.xs
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=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...

=over 4

=item tmpdir

Modifies the list of places temp directory information is looked for.

$ENV{TMPDIR}
$ENV{TEMP}
$ENV{TMP}
/tmp
/

=item splitpath

Volumes can be drive letters or UNC sharenames (\server\share).

=back

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=cut

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/lib/File/Spec/OS2.pm
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=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

Cwd - get pathname of current working directory

=head1 SYNOPSIS

use Cwd;
my $dir = getcwd;

use Cwd 'abs_path';
my $abs_path = abs_path($file);

=head1 DESCRIPTION

This module provides functions for determining the pathname of the current working directory. It is recommended that getcwd (or another *cwd() function) be used in I<all> code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.
Each of these functions are called without arguments and return the absolute path of the current working directory.

=over 4

=item getcwd

my $cwd = getcwd();

Returns the current working directory.

Exposes the POSIX function getcwd(3) or re-implements it if it's not available.

=item cwd

my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For most systems it is identical to `pwd` (but without the trailing line terminator).

=item fastcwd

my $cwd = fastcwd();

A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can’t chdir() you back into. If fastcwd encounters a problem it will return undef but will probably leave you in a different directory. For a measure of extra security, if everything appears to have worked, the fastcwd() function will check that it leaves you in the same directory that it started in. If it has changed it will C<die> with the message "Unstable directory path, current directory changed unexpectedly". That should never happen.

=item fastgetcwd

my $cwd = fastgetcwd();

The fastgetcwd() function is provided as a synonym for cwd().

=item getdcwd

my $cwd = getdcwd();

my $cwd = getdcwd('C:');
The `getdcwd()` function is also provided on Win32 to get the current working directory on the specified drive, since Windows maintains a separate current working directory for each drive. If no drive is specified then the current drive is assumed.

This function simply calls the Microsoft C library `getdcwd()` function.

=back

=head2 abs_path and friends

These functions are exported only on request. They each take a single argument and return the absolute pathname for it. If no argument is given they'll use the current working directory.

=over 4

=item abs_path

    my $abs_path = abs_path($file);

Uses the same algorithm as `getcwd()`. Symbolic links and relative-path components ("." and ".") are resolved to return the canonical pathname, just like `realpath(3).

=item realpath

    my $abs_path = realpath($file);

A synonym for `abs_path()`.

=item fast_abs_path

    my $abs_path = fast_abs_path($file);

A more dangerous, but potentially faster version of `abs_path`.

=back

=head2 $ENV{PWD}

If you ask to override your `chdir()` built-in function,

    use Cwd qw(chdir);

then your PWD environment variable will be kept up to date. Note that
it will only be kept up to date if all packages which use chdir import it from Cwd.

=head1 NOTES

=over 4
=item *

Since the path separators are different on some operating systems ('/' on Unix, ':' on MacPerl, etc...) we recommend you use the File::Spec modules wherever portability is a concern.

=item *

Actually, on Mac OS, the C<getcwd()>, C<fastgetcwd()> and C<fastcwd()> functions are all aliases for the C<cwd()> function, which, on Mac OS, calls `pwd`. Likewise, the C<abs_path()> function is an alias for C<fast_abs_path()>.

=back

=head1 AUTHOR

Originally by the perl5-porters.

Maintained by Ken Williams <KWILLIAMS@cpan.org>

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Portions of the C code in this library are copyright (c) 1994 by the Regents of the University of California. All rights reserved. The license on this code is compatible with the licensing of the rest of the distribution - please see the source code in F<Cwd.xs> for the details.

=head1 SEE ALSO

L<File::chdir>

=cut
Test::Simple will start by printing number of tests run in the form "1..M" (so "1..5" means you're going to run 5 tests). This strange format lets Test::Harness know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Simple will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

<table>
<thead>
<tr>
<th>Exit Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>all tests successful</td>
</tr>
<tr>
<td>255</td>
<td>test died</td>
</tr>
<tr>
<td>any other number</td>
<td>how many failed (including missing or extras)</td>
</tr>
</tbody>
</table>

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground its recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

```perl
use Test::Simple tests => 5;

use Film;  # What you're testing.

my $btaste = Film->new({ Title => 'Bad Taste', Director => 'Peter Jackson', Rating => 'R', NumExplodingSheep => 1 });
ok( defined($btaste) and ref $btaste eq 'Film', 'new() works');
```
It will produce output like this:

```
1..5
  ok 1 - new() works
  ok 2 - Title() get
  ok 3 - Director() get
  not ok 4 - Rating() get
    # Failed test (t/film.t at line 14)
  ok 5 - NumExplodingSheep() get
    # Looks like you failed 1 tests of 5
```

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

```
  0 SS$_NORMAL all tests successful
  4 SS$_ABORT something went wrong
```

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate
to write tests at all. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn’t in Tony’s kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!

=item L<Test::Harness>

Interprets the output of your test program.

=back

=head1 AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

=head1 COPYRIGHT

Copyright 2001 by Michael G Schwern E<lt>schwern@pobox.comE<gt>. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrlj/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/t/lib/Test/Simple.pm
No license file was found, but licenses were detected in source scan.

=back

=head1 AUTHORS

See the authors list in I<File::Spec>. Mac OS support by Paul Schinder
<schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

=head1 COPYRIGHT

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it under the same terms as Perl itself.

=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

=cut

Found in path(s):
* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-AfMSxrlj/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/lib/File/Spec/Mac.pm
No license file was found, but licenses were detected in source scan.

/*

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

ppport.h -- Perl/Pollution/Portability Version 3.20

Automatically created by Devel::PPPort running under perl 5.015005.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.
=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.20

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from ppport.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help
Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet
Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>
Show portability information for API elements matching `I<name>`. If `I<name>` is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn’t been available in earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the `C<PL_>` prefix is deprecated. Also, some API functions used to have a `C<perl_>` prefix. Using this form is also deprecated. You can safely use the supported API, as `F<ppport.h>` will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can’t be provided using a macro, you have to explicitly request support for these functions by adding one or more `C<#define>`s in your source code before the inclusion of `F<ppport.h>`.

These functions or variables will be marked `C<explicit>` in the list shown by `C<--list-provided>`.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either `C<static>` or global variants.

For a `C<static>` function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable
For a global function or variable (used in multiple source files), use:

#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_num()</td>
<td>NEED_grok_num</td>
<td>NEED_grok_num_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>: 
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

    perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

    perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

    perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

    perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

    perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function,
use:

perl ppport.h --api-info=newSVpvn

Since the argument to C|--api-info| can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/.

to display information for all known API elements.

=head1 BUGS

If this version of F(ppport.h) is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F(ppport.h) was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.20;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[(\w\.)]+$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed    # horizontal whitespace

# Never use C comments in this file!
my $ecs = '/^\s*#/';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
)) or usage();
};
if ($@ and grep /^-/, @ARGV) {
usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.\n";
}
if ($opt{version}) {
print "This is $0 $VERSION.\n";
exit 0;
}
usage() if $opt{help};
strip() if $opt{strip};
if (exists $opt{'compat-version'}) {
my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
if ($@) {
die "Invalid version number format: '$opt{'compat-version'}'\n";
}
die "Only Perl 5 is supported\n" if $r != 5;
die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
$opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
$opt{'compat-version'} = 5;
}
my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
? ( $1 => {
($2
? ( base => $2 ) : ()),
($3
? ( todo => $3 ) : ()),
(index($4, 'v') >= 0 ? ( varargs => 1 ) : ()),
(index($4, 'p') >= 0 ? ( provided => 1 ) : ()),
(index($4, 'n') >= 0 ? ( nothxarg => 1 ) : ()),
})
: die "invalid spec: $_" } qw(

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SvIsCOW|5.008003|
SvLEN_set||
SvLEN||
SvLOCK|5.007003|
SvMAGIC_set|5.009003||p
SvNIOK_off||
SvNIOKp||
SvNIOK||
SvNOK_off||
SvNOK_only||
SvNOK_on||
SvNOKp||
SvNOK||
SvNVX||
SvNV_nomg|5.013002|
SvNV_set||
SvNVx||
SvNV||
SvOK||
SvOOK_offset|5.011000|
SvOOK||
SvPOK_off||
SvPOK_only_UTF8|5.006000|
SvPOK_only||
SvPOK_on||
SvPOKp||
SvPOK||
SvPVX_const|5.009003||p
SvPVX_mutable|5.009003||p
SvPVX||
SvPV_const|5.009003||p
SvPV_flags_const_nolen|5.009003||p
SvPV_flags_const|5.009003||p
SvPV_flags_mutable|5.009003||p
SvPV_flags|5.007002||p
SvPV_force_flags_mutable|5.009003||p
SvPV_force_flags_nolen|5.009003||p
SvPV_force|5.007002||p
SvPV_force_mutable|5.009003||p
SvPV_force_nolen|5.009003||p
SvPV_force_nomg_nolen|5.009003||p
SvPV_force_nomg|5.007002||p
SvPV_force|||p
SvPV_mutable|5.009003||p
SvPV_nolen_const|5.009003||p
SvPV_nolen|5.006000||p
SvPV_nomg_const_nolen|5.009003||p
SvPV_nomg_const|5.009003||p
SvTYPE|||
SvUNLOCK|5.007003|
SvUOK|5.007001|5.006000|p
SvUPGRADE|||
SvUTF8_off|5.006000|
SvUTF8_on|5.006000|
SvUVXx|5.004000|p
SvUVX|5.004000|p
SvUV_nomg|5.009001|p
SvUV_set|5.009003|p
SvUVx|5.004000|p
SvUV|5.004000|p
SvVOK|5.008001|
SvVSTRING_mg|5.009004|p
THIS|||n
UNDERBAR|5.009002|p
UTF8_MAXBYTES|5.009002|p
UVSIZE|5.006000|p
UVTYPE|5.006000|p
UVX|5.004000|p
UV_of|5.006000|p
UV uf|5.006000|p
UV xf|5.006000|p
WARN_ALL|5.006000|p
WARN_AMBIGUOUS|5.006000|p
WARN_ASSERTIONS|5.014000|p
WARN_BAREWORD|5.006000|p
WARN_CLOSED|5.006000|p
WARN_CLOSURE|5.006000|p
WARN_DEBUGGING|5.006000|p
WARN_DEPRECATED|5.006000|p
WARN_DIGIT|5.006000|p
WARN_EXEC|5.006000|p
WARN_EXITING|5.006000|p
WARN_GLOB|5.006000|p
WARN_INPLACE|5.006000|p
WARN_INTERNAL|5.006000|p
WARN_IO|5.006000|p
WARN_LAYER|5.008000|p
WARN_MALLOC|5.006000|p
WARN_MISC|5.006000|p
WARN_NEWLINE|5.006000|p
WARN_NUMERIC|5.006000|p
WARN_ONCE|5.006000|p
WARN_OVERFLOW|5.006000|p
WARN_PACK|5.006000|p
WARN_PARENTHESIS|5.006000|p
WARN_PIPE|5.006000||p
WARN_PORTABLE|5.006000||p
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if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f", '.'x(40-length($f)), "", format_version($API{$f}{todo}), "\n";
    }
    exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {

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if (exists $API{${function->[0]}}) {
  my @n = find_api($function->[1]);
  push @ { $depends{${function->[0]}}, @n if @n
}
  undef $function;
} else {
  $function->[1] .= $_;
}
}

$function = [$1, "] if m{^DPPP_\(my_\(\w+\)\)};

$replace     = $1 if m{^\s*$rccs\$s+Replace\:\s+\(\d+\)\s+\$rcce\$s*\$};
$replace{$_2} = $1 if $replace and m{^\s*$#s*define\:\s+\(\d+\)\(\?\!(\^[\^]*)\)?\s+\$rcce\$s*\$};
$replace{$_2} = $1 if m{^\s*$\(\d+\)\s+ \$rcce\$s+Replace\+ \$rcce\$s*\$};
$replace{$_2} = $1 if m{^\s*\$rcce\$s+ \$rcce\$s*\$} {}

if (m{^\s*$rccs\$s+\$rcce\$s+Replace\+\$rcce\$s*\$}) {
  my @deps = map { s/\+/g; S_ } split /, $3;
  my $d;
  for $d (map { s/\+/g; S_ } split /, $1) {
    push @ {$depends{$d}}, @deps;
  }
}

$need{$_1} = 1 if m{^\s*$rccs\$s+ +define\(\NEED_\(\w+\)\(\?\!\GLOBAL\)?\)\}\$};
}

for (values %depends) {
  my %s;
  $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{"api-info"}) {
  my $f;
  my $count = 0;
  my $match = $opt{"api-info"} =~ s!^\//\s*/\s*/\$! ? $1 : "^\Q$opt{"api-info"}\E\$/";
  for $f (sort { lc Sa cmp lc Sb } keys %API) {
    next unless $f =~ /$match/;
    print "\n== $f ==\n"
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base:\n";
      $info++;
    }
  }
}
my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
print "Support by $ppport provided back to perl-$todo\n";
print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
print "Depends on: '" . join( ', ' . '@{' . $depends{$f} . '}'). '"\n" if exists $depends{$f};
print "\nShints{$f}" if exists $shints{$f};
print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching \"opt\{'api-info'}\".";
print "\n";
exit 0;
}
if (exists $opt{'list-provided'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{provided};
my @flags;
push @flags, 'explicit' if exists $need{$f};
push @flags, 'depend'   if exists $depends{$f};
push @flags, 'hint'     if exists $hints{$f};
push @flags, 'warning'  if exists $warnings{$f};
my $flags = @flags ? '[' . join(', ', @flags) . ']': '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "$_ is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "$_ does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
else {
  eval {
    require File::Find;
    File::Find::find(sub {
      $File::Find::name =~ /($srcext)$/i
      and push @files, $File::Find::name;
    },
    ":":;
  }
  if ($@) {
    @files = map { glob "*_" } @srcext;
  }
}

if (!@ARGV || $opt{filter}) {
  my(@in, @out);
  my %xsc = map { /(.*)\.xs$/ ? ($1.c => 1, "$1.cc" => 1) : () } @files;
  for (@files) {
    my $out = exists $xsc{$_} || /\Q$ppport\E$/i || !/($srcext)$/i;
    push @out if $out ? \out : $in }
  if (@ARGV && @out) {
    warning("Skipping the following files (use --nofilter to avoid this):
     ", join "\n ", @out);
  }
  @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
  unless (open IN, "$filename") {
    warn "Unable to read from $filename: $!\n";
    next;
  }

  info("Scanning $filename ...");

  my $c = do { local $/; <IN> };
  close IN;

  my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;

$s = s{
    (/:^ HS*\#HS*include[^\r\n]+\b\b?:QSppport\E\b\[\^\r\n\]*
    |:^ HS*\#HS*(:define|elif|i[\r\n]:def?))\b[^\r\n]*
    |([^\r\n]*\b)\n*[
    |[^\r\n]*\b\Q$ppport\E\b[^\r\n]*
    |([^\r\n]*)\n*[
    |([^\r\n]*\b)\n*[
    |([^\r\n]*\b)[[^\r\n]++^]*\b\b[^\r\n]*
    |([^\r\n]*\b)[[^\r\n]++^]*\b\b[^\r\n]*
    |
} { defined $2 and push @ccom, $2;
    defined $1 ? "$ccs$#ccom$cce" : mssex;
}

$file{ccom} = \@ccom;
$file{code} = $s;
$file{has_inc_ppport} = $s = s/^ HS*\#HS*include[^\r\n]+\b\bQSppport\E\b\m/

my $func;

for ($func (keys %API)) {
    $match = "$revreplace{$func}" if exists $revreplace{$func};
    if ($s =~ /Ab(?:Perl_)?($match)\b/) {
        $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
        $file{uses_Perl}{$func}++ if $s =~ /Perl_$func/;
    }
}

if (exists $API{$func}{provided}) {
    $file{uses_provided}{$func}++;
    if (exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
            $file{uses_deps}{$func} = \@deps;
            for (@deps) {
                $file{uses}{$_} = 0 unless exists $file{uses}{$_};
            }
        }
    }
    if (exists $API{$func}{todo}) {
        if ($s =~ /$func/)
            $file{uses_todo}{$func}++;
    }
}
if ($s =~ /lb$sfunc\b/) {
    $file{uses_todo}{$func}++;
}

}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {

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my $changes = ($c =~ s{\b\(Perl_$func\s*(?!aTHX_\?)\s*\)\s*}$1 . ($2 eq 'aTHX' ? 'aTHX_' : 'aTHX') . $2 \ge);  
if ($changes) {  
    warning("Doesn't pass interpreter argument aTHX to Perl_$func");  
    $file{changes} += $changes;  
}  
else {  
    warning("Uses Perl_$func instead of $func");  
    $file{changes} += ($c =~ s{\bPerl_$func\$1\(\s*aTHX_\?)\s*}$func$1\$g);  
}  
for $func (sort keys %{$file{uses_replace}}) {  
    warning("Uses $func instead of $replace{$func}");  
    $file{changes} += ($c =~ s{\b$func\s*}$replace{$func}\$g);  
}  
for $func (sort keys %{$file{uses_provided}}) {  
    if ($file{uses}[$func]) {  
        if (exists $file{uses_deps}{$func}) {  
            diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));  
        }  
        else {  
            diag("Uses $func");  
        }  
    }  
    $warnings += hint($func);  
}  
unless ($opt{quiet}) {  
    for $func (sort keys %{$file{uses_todo}}) {  
        print "*** WARNING: Uses $func, which may not be portable below perl ",  
            format_version($API{$func}{todo}), ", even with 'ppport'un";
        $warnings++;  
    }  
}  
for $func (sort keys %{$file{needed_static}}) {  
    my $message = ";
    if (not exists $file{uses}{$func}) {  
        $message = "No need to define NEED_$func if $func is never used";
    }  
    elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {  
        $message = "No need to define NEED_$func when already needed globally";
    }
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
}
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_$func\_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        if ($file{needs}{$func} eq 'extern') {
            $message = "No need to define NEED_$func\_GLOBAL when already needed globally";
        } elsif ($file{needs}{$func} eq 'static') {
            $message = "No need to define NEED_$func\_GLOBAL when only used in this file";
        }
    }
    if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\_GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ""
    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "";
        unless (exists $file{needed_$type}[$func]) {
            if ($type eq 'global') {
                diag("Files [@{ $global{needs}[$func] }] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "#define NEED_$func$suffix\n";
        }
    }
    if ($pp && ($c =~ s/^(?=$HS*#$HS*define\b.*$LF//mg)) {
        $pp = ""
        $file{changes}++;
    }
}
unless ($file{has_inc_ppport}) {
  diag("Needs to include "$ppport"\n);  
  $pp .= qq(#include "$ppport\n")
}

if ($pp) {
  $file{changes} += ($c =~ s/^($HS*$HS*$HS*define$HS*NEED_\w+.*)$/1$pp/ms)
    || ($c =~ s/^\(\?\=*$HS*$HS*include.*\Q$ppport\E/$pp/m)
    || ($c =~ s/^\(\?\=*$HS*$HS*include.*XSUB.*\s*\)/$pp/m)
    || ($c =~ s/^/$pp/); 
}

else {
  if ($file{has_inc_ppport}) {
    diag("No need to include "$ppport"\n");  
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  } else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';  
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';  
my $warn = $warnings ? " ($warnings warning$s)" : '';  
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
error("$newfile' already exists, refusing to write copy of '$filename'");
}
else {
    local *F;
    if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
    }
    else {
        error("Cannot open '$newfile' for writing: $!");
    }
}
}
elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            }
        }
    }
    else {
        error("Cannot open '$opt{patch}' for writing: $!");
        delete $opt{patch};
        $opt{changes} = 1;
        goto fallback;
    }
    mydiff(*PATCH, $filename, $c);
}
else {
    fallback:
        info("Suggested changes:");
        mydiff(*STDOUT, $filename, $c);
    }
} else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
}
} else {
    info("Looks good");
}

close PATCH if $patch_opened;

exit 0;
sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff {
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }
    
    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff {
    my($prog, $file, $str) = @_;
if (open F, ">$tmp") {
    print F $str;
    close F;

    if (open F, "$prog $file $tmp |") {
        while (<F>) {
            s/Q$Tmp/E/file.patched/;
            $diff .= $_;
        }
        close F;
        unlink $tmp;
        return $diff;
    }

    unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub rec_depend {
    my($func, $seen) = @_;  
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version {
    my $ver = shift;

    if ($ver =~ /^\(\d+\).\(\d+\).\(\d+\)/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^[\d.]+$/) {
        die "cannot parse version '$ver'un";
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\d+(\d{3})\d{3}$/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
  if ($s % 10) {
    die "cannot parse version $ver"
  }
}

return ($r, $v, $s);

sub format_version
{
  my $ver = shift;

  $ver =~ s/$/000000/;
  my($r,$v,$s) = $ver =~ /\d+(\d{3})\d{3}$/;

  $v = int $v;
  $s = int $s;

  if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
      die "invalid version $ver"
    }
    $s /= 10;
  }
  $ver = sprintf "%d.%03d", $r, $v;
  $s > 0 && $ver .= sprintf "._%02d", $s;

  return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;

sub info
{
  $opt{quiet} && return;
  print @_, \n;
}

sub diag
{
  $opt{quiet} && return;

  print @_, \n;
}
$opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}
sub error
{
print "*** ERROR: ", @_, "\n";
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.

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endusage

exit 2;

}

sub strip
{
  my $self = do { local (@ARGV, $/) = ($0); <> }
  my ($copy) = $self =~ /^=head\d\s+COPYRIGHT\w*[^\w]*\w+$/ms;
  $copy =~ s/\^\(?=\w+)\// /gms;
  $self =~ s/$/\$HS+Do NOT edit.*?($=\^-)/$copy/ms;
  $self =~ s/$/\$SKIP.*?($=\^-DATA\_.)/$SKIP
  if (!@ARGV && \$ARGV[0] eq '--unstrip') {
    eval { require Devel::PPPort }
    \$@ and die "Cannot require Devel::PPPort, please install.\n"
    if (eval \$Devel::PPPort::VERSION < \$VERSION) {
      die "$0 was originally generated with Devel::PPPort \$VERSION.\n"
      "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\n"
      "Please install a newer version, or --unstrip will not work.\n"
    }
    Devel::PPPort::WriteFile($0);
    exit 0;
  }
  print <<END;
  Sorry, but this is a stripped version of \$0.
  To be able to use its original script and doc functionality,
  please try to regenerate this file using:
  \$^X \$0 --unstrip
END

/open OUT, ">$0" or die "cannot strip $0: $!\n"
print OUT "$pl$Sc\n";
__DATA__
*/

exit 0;
}

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

=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

=head1 COPYRIGHT

Copyright (c) 2004,2007 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the implementation of these methods, not the semantics.

=cut

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

=head1 NAME

File::Spec - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec;

$x=File::Spec->catfile('a', 'b', 'c');

which returns 'a/b/c' under Unix. Or:

Found in path(s):
*/

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

=head1 NAME

File::Spec - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec;

$x=File::Spec->catfile('a', 'b', 'c');

which returns 'a/b/c' under Unix. Or:
use File::Spec::Functions;

$x = catfile('a', 'b', 'c');

=head1 DESCRIPTION

This module is designed to support operations commonly performed on file
specifications (usually called "file names", but not to be confused with the
contents of a file, or Perl's file handles), such as concatenating several
directory and file names into a single path, or determining whether a path
is rooted. It is based on code directly taken from MakeMaker 5.17, code
written by Andreas Koenig, Andy Dougherty, Charles Bailey, Ilya
Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of
OS specific routines is available in a separate module, including:

File::Spec::Unix
File::Spec::Mac
File::Spec::OS2
File::Spec::Win32
File::Spec::VMS

The module appropriate for the current OS is automatically loaded by
File::Spec. Since some modules (like VMS) make use of facilities available
only under that OS, it may not be possible to load all modules under all
operating systems.

Since File::Spec is object oriented, subroutines should not be called directly,
as in:

File::Spec::catfile('a','b');

but rather as class methods:

File::Spec->catfile('a','b');

For simple uses, L<File::Spec::Functions> provides convenient functional
forms of these methods.

=head1 METHODS

=over 2

=item canonpath
X<canonpath>

No physical check on the filesystem, but a logical cleanup of a
path.

$cpath = File::Spec->canonpath($path);

Note that this does *not* collapse F<x/../y> sections into F<y>. This is by design. If F</foo> on your system is a symlink to F</bar/baz>, then F</foo/../quux> is actually F</bar/quux>, not F</quux> as a naive F<x../>-removal would give you. If you want to do this kind of processing, you probably want C<Cwd>'s C<realpath()> function to actually traverse the filesystem cleaning up paths like this.

=item catdir
X<catdir>

Concatenate two or more directory names to form a complete path ending with a directory. But remove the trailing slash from the resulting string, because it doesn't look good, isn't necessary and confuses OS/2. Of course, if this is the root directory, don't cut off the trailing slash :-)

$pathname = File::Spec->catdir(@directories);

=item catfile
X<catfile>

Concatenate one or more directory names and a filename to form a complete path ending with a filename

$pathname = File::Spec->catfile(@directories, $filename);

=item curdir
X<curdir>

Returns a string representation of the current directory.

$curdir = File::Spec->curdir();

=item devnull
X<devnull>

Returns a string representation of the null device.

$devnull = File::Spec->devnull();

=item rootdir
X<rootdir>

Returns a string representation of the root directory.
$rootdir = File::Spec->rootdir();

=item tmpdir
X<tmpdir>

Returns a string representation of the first writable directory from a list of possible temporary directories. Returns the current directory if no writable temporary directories are found. The list of directories checked depends on the platform; e.g. File::Spec::Unix checks C<$ENV{TMPDIR}>(unless taint is on) and F</tmp>.

$tmpdir = File::Spec->tmpdir();

=item updir
X<updir>

Returns a string representation of the parent directory.

$updir = File::Spec->updir();

=item no_upwards

Given a list of file names, strip out those that refer to a parent directory. (Does not strip symlinks, only '.', '..', and equivalents.)

@paths = File::Spec->no_upwards( @paths );

=item case_tolerant

Returns a true or false value indicating, respectively, that alphabetic case is not or is significant when comparing file specifications. Cygwin and Win32 accept an optional drive argument.

$is_case_tolerant = File::Spec->case_tolerant();

=item file_name_is_absolute

Takes as its argument a path, and returns true if it is an absolute path.

$is_absolute = File::Spec->file_name_is_absolute( $path );

This does not consult the local filesystem on Unix, Win32, OS/2, or Mac OS (Classic). It does consult the working environment for VMS (see L<File::Spec::VMS/file_name_is_absolute>).

=item path
X<path>
Takes no argument. Returns the environment variable C<PATH> (or the local platform's equivalent) as a list.

    @PATH = File::Spec->path();

=item join
X<join, path>

join is the same as catfile.

=item splitpath
X<splitpath> X<split, path>

Splits a path in to volume, directory, and filename portions. On systems with no concept of volume, returns "" for volume,

    ($volume,$directories,$file) = File::Spec->splitpath( $path );
    ($volume,$directories,$file) = File::Spec->splitpath( $path, $no_file );

For systems with no syntax differentiating filenames from directories, assumes that the last file is a path unless C<$no_file> is true or a trailing separator or F</> or F</.> is present. On Unix, this means that C<$no_file> true makes this return ( "", $path, "" ).

The directory portion may or may not be returned with a trailing '/'.

The results can be passed to L</catpath()> to get back a path equivalent to (usually identical to) the original path.

=item splitdir
X<splitdir> X<split, dir>

The opposite of L</catdir>.

    @dirs = File::Spec->splitdir( $directories );

C<$directories> must be only the directory portion of the path on systems that have the concept of a volume or that have path syntax that differentiates files from directories.

Unlike just splitting the directories on the separator, empty directory names (C<"">) can be returned, because these are significant on some OSes.

=item catpath

Takes volume, directory and file portions and returns an entire path. Under
Unix, C<$volume> is ignored, and directory and file are concatenated. A '/' is
inserted if need be. On other OSes, C<$volume> is significant.

$full_path = File::Spec->catpath( $volume, $directory, $file );

=item abs2rel
X<abs2rel> X<absolute, path> X<relative, path>

Takes a destination path and an optional base path returns a relative path
from the base path to the destination path:

$rel_path = File::Spec->abs2rel( $path ) ;
$rel_path = File::Spec->abs2rel( $path, $base ) ;

If C<$base> is not present or ", then L<Cwd::cwd()> is used. If C<$base> is
relative, then it is converted to absolute form using
L<rel2abs()> . This means that it is taken to be relative to
L<Cwd::cwd()> .

On systems with the concept of volume, if C<$path> and C<$base> appear to be
on two different volumes, we will not attempt to resolve the two
paths, and we will instead simply return C<$path> . Note that previous
versions of this module ignored the volume of C<$base> , which resulted in
garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the
C<$base> filename as well. Otherwise all path components are assumed to be
directories.

If C<$path> is relative, it is converted to absolute form using L<rel2abs()> .
This means that it is taken to be relative to L<Cwd::cwd()> .

No checks against the filesystem are made. On VMS, there is
interaction with the working environment, as logicals and
macros are expanded.

Based on code written by Shigio Yamaguchi.

=item rel2abs()
X<rel2abs> X<absolute, path> X<relative, path>

Converts a relative path to an absolute path.

$abs_path = File::Spec->rel2abs( $path ) ;
$abs_path = File::Spec->rel2abs( $path, $base ) ;
If \texttt{$\text{C<$base>}$} is not present or ", then \texttt{L<\text{Cwd::cwd()}|Cwd>} is used. If \texttt{C<$base>}$ is relative, then it is converted to absolute form using \texttt{L</rel2abs()>. This means that it is taken to be relative to \texttt{L<\text{Cwd::cwd()}|Cwd>}}.

On systems with the concept of volume, if \texttt{C<$path>$_1} and \texttt{C<$base>$_1} appear to be on two different volumes, we will not attempt to resolve the two paths, and we will instead simply return \texttt{C<$path>}$_1$. Note that previous versions of this module ignored the volume of \texttt{C<$base>$_1}, which resulted in garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the \texttt{C<$base>$_1} filename as well. Otherwise all path components are assumed to be directories.

If \texttt{C<$path>$_1} is absolute, it is cleaned up and returned using \texttt{L</canonpath>$_1}.

No checks against the filesystem are made. On VMS, there is interaction with the working environment, as logicals and macros are expanded.

Based on code written by Shigio Yamaguchi.

=back

For further information, please see \texttt{L<File::Spec::Unix>$_1, L<File::Spec::Mac>$_1, L<File::Spec::OS2>$_1, L<File::Spec::Win32>$_1, or L<File::Spec::VMS>$_1}.

=head1 SEE ALSO

\texttt{L<File::Spec::Unix>$_1, L<File::Spec::Mac>$_1, L<File::Spec::OS2>$_1, L<File::Spec::Win32>$_1, L<File::Spec::VMS>$_1, L<File::Spec::Functions>$_1, L<ExtUtils::MakeMaker>$_1}

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OS/2 support by Ilya Zakharevich \texttt{C<< <ilya@math.ohio-state.edu> >>},
Mac support by Paul Schinder \texttt{C<< <schinder@pobox.com> >>}, and
Thomas Wegner \texttt{C<< <wegner_thomas@yahoo.com> >>}.
\texttt{abs2rel()} and \texttt{rel2abs()} written by Shigio Yamaguchi \texttt{C<< <shigio@tamacom.com> >>},
modified by Barrie Slaymaker C<< <barries@slaysys.com> >>.
splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.

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L<File::Spec>

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EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0                   all tests successful
255                 test died
any other number    how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

NOTES

Test::More is B<explicitly> tested all the way back to perl 5.004.

BUGS and CAVEATS

Thread

Test::More will only be aware of threads if "use threads" has been done I<before> Test::More is loaded. This is ok:

    use threads;
    use Test::More;

This may cause problems:

    use Test::More
    use threads;

Making your own ok()

If you are trying to extend Test::More, don't. Use Test::Builder instead.

The eq_* family has some caveats.
no_plan and todo depend on new Test::Harness features and fixes. If you're going to distribute tests that use no_plan or todo your end-users will have to upgrade Test::Harness to the latest one on CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness will work fine.

Installing Test::More should also upgrade Test::Harness.

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test::Class> is like XUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Unit> is XUnit style testing.
L<Test::Inline> shows the idea of embedded testing.

L<Bundle::Test> installs a whole bunch of useful test modules.

=head1 AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> with much inspiration from Joshua Pritikin's Test module and lots of help from Barrie Slaymaker, Tony Bowden, blackstar.co.uk, chromatic and the perl-qa gang.

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---
abstract: unknown
author:  
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: PathTools
no_index:
directory:
  - t
  - inc
requires:
Carp: 0
File::Basename: 0
Scalar::Util: 0
Test: 0
version: 3.40

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AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJlZ3h/PathTools-3.40/META.yml
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=head1 NAME

File::Spec::Functions - portably perform operations on file names

=head1 SYNOPSIS

use File::Spec::Functions;
$x = catfile('a','b');

=head1 DESCRIPTION

This module exports convenience functions for all of the class methods
provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>,
which contains the entire set, and which is inherited by the modules for
other platforms. For further information, please see L<File::Spec::Mac>,
L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.

canonpath
catdir
catfile
curdir
rootdir
updir
no_upwards
file_name_is_absolute
path

The following functions are exported only by request.
devnull
tmpdir
splitpath
splitdir
catpath
abs2rel
rel2abs
case_tolerant

All the functions may be imported using the C<:ALL> tag.

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=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2,
File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

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* /opt/cola/permits/1148333574_1619429677.27/0/perl-PathTools-3.40-5.el7-1.src.rpm-cosi-expand-archive-
AfMSxrjl/PathTools-3.40.tar.gz-cosi-expand-archive-NCcJIZ3h/PathTools-3.40/lib/File/Spec/Functions.pm

1.55 cheese 3.28.0-1.el7
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3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, versions with modified or added functionality, and dynamic, shared, or static library versions not from Info-ZIP--must be plainly marked as such and must not be misrepresented as being the original source or, if binaries, compiled from the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP URL(s), such as to imply Info-ZIP will provide support for the altered versions.


This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

FIRST NOTE:
This file contains some details about the copyright history of contributions to the UnZip project.
Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports.
Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

* MoreFiles

* A collection of File Manager and related routines

* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
* Portions copyright 1995 Jim Luther
* All rights reserved.
* The Package "More Files" is distributed under the following license terms:

* "You may incorporate this sample code into your applications without restriction, though the sample code has been provided "AS IS" and the responsibility for its operation is 100% yours. However, what you are not permitted to do is to redistribute the source as "DSC Sample Code" after having made changes. If you're going to redistribute the source, we require that you make it clear in the source that the code was descended from Apple Sample Code, but that you've made changes."

The usage terms of this copyright note are compatible with the Info-ZIP license, they do not add further restrictions.

The following copyright applies to the Mac OS "macbin3" decoding code (extra field compatibility with ZipIt):

* MacBinaryIII.h

* Copyright 1997 Christopher Evans (cevans@poppybank.com)

* Basic encoding and decoding of Macintosh files to the
* MacBinary III spec.
* This source is copyrighted by Christopher Evans (cevans@poppybank.com)
* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
* homepage of Leonard Rosenthal  leonardr@netcom.com)

This copyright note does not contain any usage terms. So, we assume that this code is freely reusable until we are proved wrong...

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The remaining copyright notes have been superseeded by the new Info-ZIP license, with explicit permission from the respective original authors. They are cited here for historical reasons, only:

The following copyright applies to the full-featured unreduce.c (now distributed separately):

* Copyright 1989 Samuel H. Smith;  All rights reserved
* Do not distribute modified versions without my permission.
* Do not remove or alter this notice or any other copyright notice.
* If you use this in your own program you must distribute source code.
* Do not use any of this in a commercial product.

Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127 (?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

Note that the third and fourth stipulations still apply to any company that wishes to incorporate the unreduce code into its products; if you wish to do so, you must contact Mr. Smith directly regarding licensing.

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The following copyright applied to most of the VMS code in vms.c,
distributed with UnZip version 4.2 and later:

* Copyright (c) 1992-93 Igor Mandrichenko.
* Permission is granted to any individual or institution to use, copy,
  * or redistribute this software so long as all of the original files
  * are included unmodified and that this copyright notice is retained.

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The following copyright applied to the new version of unshrink.c, distributed with UnZip version 5.2 and later:

* Copyright (c) 1994 Greg Roelofs.
* Permission is granted to any individual/institution/corporate
  * entity to use, copy, redistribute or modify this software for
  * any purpose whatsoever, subject to the conditions noted in the
  * Frequently Asked Questions section below, plus one additional
  * condition: namely, that my name not be removed from the source
  * code. (Other names may, of course, be added as modifications
  * are made.) Corporate legal staff (like at IBM :-) ) who have
  * problems understanding this can contact me through Zip-Bugs...

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The following copyright applied to the Windows DLL code (windll/*), distributed with UnZip version 5.2 and later:

* Copyright (c) 1996 Mike White.
* Permission is granted to any individual or institution to use,
  * copy, or redistribute this software so long as all of the original
  * files are included, that it is not sold for profit, and that this
  * copyright notice is retained.

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The following copyright applied to the Windows CE GUI port, ``Pocket UnZip,'' distributed with UnZip version 5.3 and later:

* All the source files for Pocket UnZip, except for components
  * written by the Info-ZIP group, are copyrighted 1997 by Steve P.
  * Miller. The product "Pocket UnZip" itself is property of the
  * author and cannot be altered in any way without written consent
  * from Steve P. Miller.

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The remaining code was written by many people associated with the Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename mapping/portability, etc.), Mark Adler (inflate, explode, unzzip), Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and others. See the file CONTRIBS in the source distribution for a much more complete list of contributors.

The decompression core code for the deflate method (inflaute.[ch], explode.c) was originally written by Mark Adler who submitted it as public domain code.

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* /opt/cola/permits/114834320_1619154309.62/0/words-3.0-22.e17-1.src.rpm-cosi-expand-archive-
QubZF6jA/mwords.tar.Z-cosi-expand-archive-81hGVEu8/mwords/113809of.fic
No license file was found, but licenses were detected in source scan.

QUICK START

17 May 93

Copy all the files on all the disks to a folder on your hard disk
(make sure you have at two (4) megabytes of free space on
your hard disk for each disk of Moby product).
Change your current directory (‘CD’) to that folder,
type BUILD and press (enter).
The files that are extracted may be viewed and edited by
any capable text-editor, such as Microsoft Word 5.x.

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Moby (tm) Words II for the MSDOS operating system is compressed and distributed on two 1.4MB double-sided diskettes. After self-extraction, the vocabulary files included with this product are in ordinary ASCII format with CRLF (ASCII 13/10) delimiters.

MOBY WORDS II CONTENTS

354,984 single words
Over 354,000 single words, excluding proper names, acronyms, or compound words and phrases. This list does not exclude archaic words or significant variant spellings.

256,772 compound words
Over 256,700 hyphenated or other entries containing more than one word as well as all capitalized words and acronyms. Phrases were considered 'common' if they or variations of them occur in standard dictionaries or thesauruses.
113,809 official crosswords
A list of words permitted in crossword games such as Scrabble (tm).
Compatible with the first edition of the Official Scrabble Players Dictionary (tm).
Since this list has all forms: -ing, -ed, -s, and so on of words, it makes a good addition when building a custom spelling dictionary.

4,160 official crosswords delta
When combined with the 113,809 crosswords file, it produces the official crossword list compatible with the second edition of the Official Scrabble Players Dictionary. (Scrabble is a registered trademark of Milton-Bradley licensed to Merriam-Webster.)

74,550 common dictionary words
A list of words in common with two or more published dictionaries. This gives the developer of a custom spelling checker a good beginning pool of relatively common words.

21,986 names
This database contains the most common names used in the United States and Great Britain. Spelling checkers may want to supplement their basic word list with this one.

4,946 female names
frequent given names of females in English speaking countries

3,897 male names
frequent given names of males in English speaking countries

10,196 places
a large selection of place names in the United States

1,000 by frequency
This file consists of the 1,000 most frequently used English words from a wide variety of common texts listed in decreasing order of frequency

1,000 by frequency internet
This file consists of the 1,000 most frequently used English words as used on the Internet computer network in 1992.

6,213 acronyms
common acronyms & abbreviations

1,185 King James Version frequent substrings
The most frequently occurring 1,185 substrings in the King James Version Bible ranked and counted by order of frequency.

467 current fiction substrings
The most frequently occurring 467 substrings occurring in a

USA Constitution
The Constitution of the United States, including the Bill of Rights
and all amendments current to 1993.

NOTE: Accents have been stripped from words, e.g., 'etude'
does not mark the accent on the initial 'e'.

Found in path(s):
* /opt/cola/permits/1148334320_1619154309.62/0/words-3.0-22.el7-1.src.rpm-cosi-expand-archive-
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A-B station
A-OK
A-Z test
A-and-R
A-axes
A-axis
A-b-c book
A-b-c method
A-blast
A-bomb
A-bomb shelter
A-day
A-flat
A-flat major
A-frame
A-line
A-one
A-pole
A-scope
A-shaped
A-sharp
A-tent
A-war
A-weapons
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AA gun
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AEF
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AF amplification
AF amplifier
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AFADS
AFAM
AFATDS
AFB
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AFCC
AFGE
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ALRU
ALS
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AM
AM broadcasting
AM receiver
AM signal
AM station
AM transmitter
AM tuner
AM-FM receiver
AM-FM tuner
AMA
AMACS
AMARC
AMASE
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AMATPS
AMBA
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AMDG
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AMICChemE
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Aberdeen terrier
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Adalbert
Adalheid
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Adaliah
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Adaline
Adall
Adallard
Adam
Adam tiler
Adam's Rib
Adam's ale
Adam's apple
Adam's fall
Adam's offspring
Adam's seed
Adam's wine
Adam's-needle
Adam-and-Eve
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Adcock antenna
Adda
Addam
Addams
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Adolfo Calero
Adolfo Constanzo
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African daisy
African dominoes
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African gray
African hunting dog
African lethargy
African lily
African mahogany
African marigold
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Agenor
Agent Orange
Ager Chawan
Ageratum
Agesilaus II
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Air Corps
Air Defense Command
Air Force
Air Medal
Air National Guard
Air Officer
Air Police
Air Route Traffic Control Center
Air Scout
Air Transport Command
Air Transport Service
Air corps
Air council
Air medal
Air minister
Air ministry
Aira
Airborne Reconnaissance Force
Aircraft Recognition Society
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Aire
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Airla
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Airline Pilots Association
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Alan Kulwicki
Alan Paton
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Alaska Highway
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Alaska Range
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Alaska cod
Alaska cotton
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Alaska king crab
Alaska pollock
Alaska sable
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Alba Flora
Alba Longa
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Alfred
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Algaroth powder
Algarsife
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Algedi
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Algerine
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Alghero
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Alhazen
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Ali
Ali Agah
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Ali Baba
Ali Currim Chagla
Ali Gailani
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Alioth
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Alise Sainte Reine
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Aliso Beach
Alison
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Alissa
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Alister
Alisun
Alita
Alitalia
Alitha
Alithea
Alithia
Alitta
Alius
Alix
Aliza
Alka-Seltzer
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All for Love
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Alla
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B battery
B board
B complex
B horizon
B major
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B minor
B natural
B powder
B power supply
B quadrum
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B supply
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B-axis
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Cape cowslip
Cape doctor
Cape dutch
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Cape hottentot
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I Ching
I Claudius
I Mech E
I Min E
I am led to believe
I ask you
I beam
I beg you
I beg your pardon
I can't see
I couldn't care less
I daresay
I declare
I don't care
I don't have the first idea
I don't know what
I don't see how
I don't see why
I don't understand
I daresay
I give up
I have it
I myself
I never
I pass
I refuse
I should fret
I should worry
I thank you
I thank you very much
I think not
I venture to say
I will no such thing
I will not
I won't
I won't buy it
I'd
I'll
I'll be
I'll be damned if
I'll be hanged if
I'll be hanged if I will
I'll be jiggered
I'll be seeing you
I'll say
I'll see you in hell first
I'm
I'm not taking any
I's
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IF signal
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Zinnia
Zino
Zinoviev
Zinovievsk
Zins
Zinsser
Zinzar
Zinzendorf
Zinziberaceae
Zion
Zion National Park
Zionism
Zoantharia
Zoanthidae
Zoanthidea
Zoanthus
Zoar
Zoara
Zoarah
Zoarces
Zoarite
Zoba
Zobe
Zobias
Zobkiw
Zoe
Zoeller
Zoellick
Zoes
Zoffany
Zogu I
Zoha
Zohak
Zohar
Zohara
Zoharist
Zoharite
Zoi
Zoie
Zoila
Zoilean
Zotilism
Zotilist
Zoilla
Zolus
Zola
Zolaesque
Zolaism
Zolaist
Zolaistic
Zolaize
Zoldi
Zoller
Zollernia
Zollie
Zollner
Zollner illusion
Zollverein
Zolly
Zolnay
Zortman
Zosema
Zoser
Zosi
Zosima
Zosimus
Zosma
Zostera
Zosteraceae
Zosteria
Zosteropinae
Zosterops
Zouave
Zouave jacket
Zoubek
Zoug
Zoysia
Zr
Zrich
Zrike
Zsa
Zsa Zsa
Zsa Zsa Gabor
Zsazsa
Zsigmondy
Zsolway
Ztopek
Zu’lkadah
Zu-zu
Zuben el genubi
Zubeneschamali
Zubird
Zubkoff
Zuccari
Zuccaro
Zucchero
Zucker
Zuckerman
Zug
Zui
Zuian
Zuider Zee
Zuidholland
Zulch
Zuleika
Zulema
Zulfikar Ali Bhutto
Zulhijjah
Zygnema
Zygnemaceae
Zygnemales
Zygnemataceae
Zygnematales
Zygobranchia
Zygobranchiata
Zygocactus
Zygodactylae
Zygodactyli
Zygomyces
Zygodactyli
Zygophyceae
Zygophyllaceae
Zygophyllum
Zygoptera
Zygopteraceae
Zygopterides
Zygopteris
Zygosaccharomyces
Zyrenian
Zyrian
Zyryan
Zysk
Zythia
Zyzomys
Zyzzogeton
Zz
a Chinaman's chance
a Roland for an Oliver
a bad penny
a barren waste
a bas
a base
a battery
a being
a belief
a beneplacito
a better place
a bill of goods
a billion
a bit
a bit different
a bit much
a bit previous
a bit thick
a bit thin
a blanc
a bon marche
a brain-spattering
a breath
a broken reed
a bum rap
a bundle of nerves
a capite ad calcem
a cappella
a capriccio
a car in every garage
a card up your sleeve
a certain
a certain number
a cheval
a chicken in every pot
a comedy to those who think
a continental
a contre cour
a corner on
a corps perdu
a corpse upon the road of night
a couple of
a couvert
a crore
a crown of glory
a curse
a cut above
a damn
a dark illimitable ocean
a darn
a datu
a deal
a debt we all must pay
a decent sort of fellow
a demain
a deus
a diet of cake
a dime a dozen
a discretion
a disgrace to your name
a divinity that shapes our ends
a dog's life
a dome of many-colored glass
a drawing toward
a drop in the bucket
a drop in the ocean
a due
a fabulous
a fair field and no favor
a far cry
a far cry from
a fat chance
a fat lot
a fatal complaint
a feather in your cap
a few
a few words of wisdom
a finder of occasions
a fire-red cherubim's face
a fond
a fool
a form of catharsis
a form of genius
a fortiori
a fortiori reasoning
a game of circles
a game two can play
a gentleman and a scholar
a ghost of a chance
a globe burnt out
a god in ruins
a gogo
a good hand at
a good ways off
a great deal
a greater number
a habit
a hall
a hand at
a hand for
a handicraft in flower
a handmaid to religion
a hard
a hieroglyphic
a high
a hit below the belt
a hive of glass
a hog for
a hoot
a huis clos
a hundred to one
a jillion
a kind of praise
a knave
a l'allemande
a l'americaine
a l'anglaise
a l'aurore
a l'espagnole
a l'estragon
a l'étouffée
a l'improviste
a l'italienne
a la
a la Chateaubriand
a la Crecy
a la Croissy
a la Maintenon
a la Marengo
a la Maryland
a la Newburg
a la Perigord
a la Soubise
a la bearmaise
a la bonne femme
a la bordelaise
a la bourgeoise
a la carte
a la casserole
a la cocotte
a la coque
a la creole
a la dauphine
a la dauphinoise
a la derobee
a la diable
a la francaise
a la godiveau
a la grecque
a la jardiniere
a la julienne
a la king
a la lyonnaise
a la macedoine
a la maitre d'hôtel
a la matelote
a la mire
a la mode
a la mode de Caen
a la mort
a la napolitaine
a la normande
a la parisienne
a la polonaise
a la printaniere
a la ravigote
a la reine
a la russe
a la serviette
a la sourdine
a la suisse
a la tartare
a la vinaigrette
a lac
a lakh
a lamp unto my feet
a leg up
a lick and a promise
a life of dignified otiosity
a lily-livered
a little
a little at a time
a little learning
a little one-eyed
a little sleep
a little slumber
a little thing
a little too thick
a load off your mind
a long cry to
a long lesson in humility
a long pull
a long time ago
a long way off
a long while ago
a lot
a lot alike
a lot going for one
a lot on the ball
a lot to do with
a lot to say about
a man
a man among men
a mass of
a mensa et thoro
a mile long
a mile off
a million
a mind of your own
a minor form of despair
a mite different
a moment standing still for ever
a monster begot upon itself
a month of Sundays
a myriad
a necessary evil
a new lease on life
a nickname of Providence
a nipping and an eager air
a noble and expressive language
a nobody
a nonillion
a nose for news
a nothing
a novice at
a number
a number of times
a outrance
a pack of lies
a paltry thing
a party to
a pas de geant
a pat on the back
a per se
a person of low taste
a perte de vue
a piacere
a pick a back
a piece of cake
a piece of the action
a place in the sun
a placing over against
a plague upon
a play for time
a play of passion
a plomb
a poco
a poem without words
a poor
a posteriori
a posteriori reasoning
a pox upon
a prendre
a preparation
a pretty mocking of the life
a pretty penny
a priori
a priori knowledge
a priori principle
a priori reasoning
a priori truth
a propos
a punta d'arco
a pure and grandfather moss
a putting or inflicting upon
a putting or lying between
a quadrillion
a quarter after
a quarter of
a quarter past
a quarter to
a quo
a radical change
a rascal
a rascally yeaforsooth knave
a reasoning animal
a rebours
a reckoning of
a reculons
a rivederci
a robbery
a ruined world
a runout powder
a sadder and a wiser man
a sandpile we run our fingers in
a screw loose
a seat where gods might dwell
a set of lies agreed upon
a short life and a merry one
a short time ago
a single separate person
a slipper and subtle knave
a sort of second nature
a sound mind in a sound body
a stitch in time
a stranger to
a string to it
a stroke above
a strong brown god
a strong pull
a sucker
a tale told by an idiot
a tale-bearing animal
a tall order
a tattered coat upon a stick
a temple sacred by birth
a tempo
a tergo
a theft
a thing for
a thing that shades
a thing to be desired
a thinking reed
a third something
a thousand
a thousand and one
a thousandfold
a thrusting away
a tinker's damn
a tool-making animal
a tool-using animal
a tooth for a tooth
a toute a l'heure
a toute outrance
a tragedy to those who feel
a transient madness
a turn to the right-about
a tyrant
a tyro at
a vast
a verray parfit gentil knight
a vinculo matrimonii
a vol
a votre sante
a way back
a whoreson
a wild of sand
a will of your own
a wise passiveness
a world of
a world-without-end bargain
a year and a day
a young person
a zillion
a-
a-be
a-bomb
a-borning
a-c
a-clock
a-coast
a-cock-bill
a-cock-horse
a-compass
a-cry
a-dance
a-dangle
a-sprawl
a-spread
a-sprout
a-squat
a-squirm
a-starboard
a-stare
a-start
a-stay
a-stays
a-straddle
a-strain
a-strand
a-strut
a-sudden
a-swarm
a-swash
a-sway
a-sweat
a-swim
a-swing
a-swoon
a-temporal
a-thrill
a-throb
a-throng
a-tiptoe
a-tolyl
a-tremble
a-trip
a-try
a-tumble
a-twain
a-twist
a-twitter
a-two
a-v
a-weather
a-week
a-west
a-wheels
a-whet
a-whiles
a-whir
a-whirl
a-wing
a-wink
a-wobble
abietic acid
abject apology
abject defeat
abject fear
ablative absolute
ablative operation
able rating
able seaman
able to adapt
able to bend without breaking
able to pay
able to roll with the punches
able to walk the chalk
able to walk the chalk line
able to walk the chalk mark
able-bodied
able-bodied seaman
able-bodiedness
able-minded
able-mindedness
ablution room
abnormal psychology
abo group
abo system
aboard the bandwagon
abode of the blessed
abode of the damned
abode of the dead
aboli fruit
abominable snowman
abortive attempt
abound with
abounding in riches
about face
about it and about
about ship
about the bush
about this size
about to
about to be
about to happen
about to piss your pants
about turn
about-face
about-faced
about-facing
about-ship
about-shipped
about-shipping
about-sledge
about-turn
above all
above all that
above and beyond
above board
above par
above stairs
above suspicion
above the line
above the pitch
above water
above your head
above-board
above-cited
above-found
above-given
above-mentioned
above-named
above-quoted
above-reported
above-said
above-water
above-written
abraham-man
abraum salts
abraxas stone
abreast of
abreast of the times
abruptly acuminate
abruptly pinnate
abs-
abscisic acid
absciss layer
abscission layer
abscission zone
absence flag
absence of assignable cause
absence of authority
absence of charge
absence of color
absence of mind
absence of motion
absence state
absence without leave
absent flag
absent treatment
absolute pitch
absolute power
absolute realism
absolute ruler
absolute scale
absolute space
absolute spirit
absolute temperature
absolute unit
absolute value
absolute veto
absolute viscosity
absolute zero
absolutely no
absolutely right
absorb the attention
absorb the shock
absorb the thought
absorb the thoughts
absorbed attention
absorbed by
absorbed in
absorbed in thought
absorbed interest
absorbed with
absorbent cotton
absorber oil
absorbing well
absorption and regurgitation
absorption band
absorption bands
absorption circuit
absorption coefficient
absorption current
absorption discontinuity
absorption dynamometer
absorption edge
absorption factor
absorption limit
absorption lines
absorption pipette
absorption screen
absorption spectrum
absorption system
abstain from
abstinence from food
abstinence theory
abstract algebra
abstract art
abstract classicism
abstract classicist
abstract expressionism
abstract expressionist
abstract group
abstract idea
abstract mathematics
abstract mechanics
abstract noun
abstract of title
abstract space
abstract thought
abstract yourself
absurd idea
abundance declaree
abundant number
abundant year
aburachan seed
abuse a privilege
abuse of office
abuse of terms
abuse your rights
abuse yourself
abut on
abut upon
abutment arch
abutment pier
abutting joint
abyssal rock
abyssal zone
abyssinian cat
ac-
ac-globulin
acacia veld
academic choctaw
academic costume
academic dean
academic degree
academic degrees
academic discipline
academic disputation
academic dress
academic freedom
academic gown
academic hood
academic institution
academic psychology
acetyl radical
acetyl value
acetylene acid
acetylene alcohol
acetylene black
acetylene burner
acetylene dichloride
acetylene dinitrile
acetylene gas
acetylene generator
acetylene linkage
acetylene series
acetylene tetrabromide
acetylene tetrachloride
acetylene torch
acetylene urea
acetylene welder
acetylene welding
acetylsalicylic acid
ach-e-deucy
ach-y-fi
ache for
ache to
achemon sphinx
aches and pains
achieve inner harmony
achieve orgasm
achieve satisfaction
achieve success
achieve your purpose
achievement age
achievement quotient
achievement test
achilles tendon
achilles' heel
aching for
aching heart
aching to
aching void
achingly sweet
achromat-
achromatic color
achromatic colour
achromatic lens
achromatic prism
achromatic vision
achroo-
achylia gastrica
acid albumin
acid albuminate
acid alizarin black
acid alizarin red
acid amide
acid anhydride
acid anthracene brown
acid azide
acid bath
acid bessemer process
acid black
acid blast
acid blower
acid boiler
acid bronze
acid brown
acid burner
acid casein
acid cell
acid color
acid concentrator
acid dipper
acid drop
acid dye
acid dyspepsia
acid egg
acid ester
acid freak
acid fuchsine
acid gloss
acid green
acid halide
acid honey
acid hydrolysis
acid kiln
acid metaprotein
acid nitrile
acid number
acid oil
acid phosphate
acid ponceau
acid precipitation
acid process
acid purifier
acid radical
acid reaction
acid reserve
acid resist
acid rock
acid salt
acid sludge
acid sodium carbonate
acid soil
acid steel
acid test
acid test ratio
acid tide
acid value
acid violet
acid wood
acid worker
acid works
acid yellow
acid-ash diet
acid-base metabolism
acid-binding
acid-fast
acid-fastness
acid-forming
acid-head
acid-mordant dye
acid-treat
acidity coefficient
acidophilus milk
ack emma
ack-ack
ack-pirate
acknowledge defeat
acknowledge receipt of
ac clinic line
acme harrow
acme of perfection
acme screw thread
acme thread
acne vulgaris
aconite violet
acorn barnacle
acorn chair
acorn clock
acorn cup
acorn duck
acorn moth
acorn shell
acorn spoon
acorn squash
acorn sugar
acorn tube
acorn valve
acorn weevil
acorn worm
acorn-shell
acouchi resin
acoustic feature
acoustic gramophone
acoustic impedance
acoustic inertance
acoustic mass
acoustic meatus
acoustic mine
acoustic nerve
acoustic ohm
acoustic phonetics
acoustic reactance
acoustic resistance
acoustic tile
acoustic wave
acoustical cloud
acoustical engineer
acoustical network
acoustical phenomenon
acoustico-
acquaint yourself with
acquainted with
acquiesce in
acquire information about
acquire intelligence about
acquired character
acquired characteristic
acquired epilepsy
acquired immunity
acquired syphilis
acquired taste
acquired tolerance
acquisition of knowledge
acquit yourself
acquit yourself of
acquittance roll
acr-
acre-dale
acre-foot
acre-inch
acridine dye
acridine dyes
acridine yellow
acriflavine hydrochloride
acro-
acrobatic evolutions
acrobatic maneuvers
across the board
across the grain
across the sea
across-the-board
acylate resin
acrylic acid
acrylic acid series
acrylic aldehyde
acrylic ester
acrylic fiber
acrylic fibre
acrylic paint
acrylic painting
acrylic resin
acryl group
acryl radical
act a part
act a role
act all over the stage
act as
act as a cathartic
act as feeder
act as foil
act beneath yourself
act between
act call
act curtain
act drop
act for
act holier than thou
act in concert
act in opposition to
act in the interests of
act in the place of
act like
act like a tonic
act like a trouper
act of God
act of accomplishing
act of contrition
act of courtesy
act of faith
act of folly
act of god
act of grace
act of kindness
act of love
act of lowering
act of politeness
act of rising
act of thought
act of war
act on
act on behalf of
act on the spur of the moment
act on your own responsibility
act opposite
act out
act psychology
act the fool
act the grand seigneur
act the hypocrite
act the part of
act the traitor
act together
act toward
act tune
act up
act up to
act upon
act warning
act well
act with
act with regard to
act your age
act your part
act-wait
actin-
acting area
acting company
acting corporal
acting device
acting school
acting sergeant
acting-out
actinic light
actinic radiation
actinic ray
actinide series
actinium emanation
actinium series
actino-
actinouranium series
action and reaction
action busher
action consciousness
action current
action extension
action filer
action finisher
action forger
action freer
action jointer
action machiner
action noun
action painter
action painting
action potential
action rail
action regulator
action replay
action sermon
action stations
action theory
action time
action viewer
action-taking
action-taking knave
activated alumina
activated carbon
activated charcoal
activated epilepsy
activated sludge
activated-sludge process
activation energy
active algolagnia
active carbon
active communications satellite
active current
active duty
active fancy
active immunity
active layer
active list
active market
active operations
active principle
active reason
active securities
acut-  
acuto-  
acuyari palm  
acuyari wood  
acyclic co-ordinates  
acyclic terpene  
acyl group  
acyl radical  
ad Kalendas Graecas  
ad arbitrium  
ad astra per aspera  
ad captandum vulgus  
ad esse  
ad eundem  
ad extremum  
ad fin  
ad glori-  
ad hoc  
ad hoc committee  
ad hoc measure  
ad hominem  
ad hominem attack  
ad in  
ad inf  
ad infinitum  
ad init  
ad initium  
ad int  
ad interim  
ad lib  
ad libitum  
ad limina  
ad litem  
ad litteram  
ad loc  
ad majorem Dei glori-  
ad nauseam  
ad out  
ad patres  
ad quem  
ad rem  
ad utrumque paratus  
ad val  
ad valorem  
ad valorem duty  
ad valorem tax  
ad verbum  
ad vitam
ad vivum
ad-
ad-lib
ad-libbed
ad-libber
ad-libbing
adam's apple
adam's needle
adam-and-eve
adapt to
adapted to
adaptive radiation
adar sheni
add a codicil
add fuel to the fire
add fuel to the flame
add gas
add insult to injury
add to
add up
add up to
add-add
added sixth
added sixth chord
added to
addendum circle
adder bead
adder fly
adder gem
adder pike
adder stone
adder's fern
adder's violet
adder's-grass
adder's-meat
adder's-mouth
adder's-months
adder's-tongue
adders-tongue
addict yourself to
addicted to
addicted to drink
addictive drug
adding machine
addison's disease
addition algebra
addition axiom
addition compound
addition logarithm
addition polymer
addition polymerization
addition product
addition table
addition theorem
additive color
additive group
additive inverse
additive primary
additive process
addle egg
addle the wits
address a warning to
address book
address the four walls
address to
address yourself to
addressing machine
adduce evidence
adductor canal
adductor impressions
aden-
adenohypophyseal luteotropin
adenosine diphosphate
adenosine phosphate
adenosine triphosphatase
adenosine triphosphate
adenosinediphosphoric acid
adenosinetriphosphoric acid
adenylic acid
adenylpyrophosphoric acid
adept in
adequate supply
ader wax
adhere to
adhere to your principles
adherence to the old and tried
adherent noun
adhesive cell
adhesive compress
adhesive factor
adhesive inflammation
adhesive plaster
adhesive tape
adiabatic absorption
adiabatic chart
adiabatic demagnetization
adiabatic diagram
adiabatic expansion
adipic acid
adipose fin
adipose tissue
adjacent angles
adjectival phrase
adjective equivalent
adjective pronoun
adjoint curve
adjoint differential equation
adjunct Logic
adjust to
adjust yourself to
adjustable propeller
adjustable spanner
adjustable wrench
adjustable-pitch
adjusted to
adjustive reaction
adjustment bond
adjustment mortgage
adjutant bird
adjutant crane
adjutant general
adjutant general corps
adjutant stork
adjutant-general
adjutants general
adjuvant treatment
administer Communion
administer a sacrament
administer absolution
administer an oath
administer extreme unction
administer justice
administer rites
administer the Eucharist
administer to
administration of justice
administration, the
administrative county
administrative engineer
administrator ad litem
admiral of the fleet
admiral shell
admiralty alloy
admiralty bond
admiralty brass
admiralty bronze
admiralty cloth
admiralty law
admiralty metal
admiralty mile
admiration mark
admission fee
admission of light
admit everything
admit exceptions
admit of
admit of comparison
admit of no doubt
admit of no option
admitted fact
admitting no denial
admitting no dispute
admitting no doubt
admitting no exception
admitting no question
admitting that
adobe bug
adobe flat
adobe house
adobe lily
adobe tick
adolescent beard
adolescent stream
adopt a belief
adopt the cause of
adorer le veau d'or
adp-
adq-
adren-
adrenal gland
adrenal insufficiency
adrenocorticotrophic hormone
adrenocorticotropic hormone
adsorption compound
adsorption isotherm
adsuki bean
adult education
adulterous affair
advance against
advance agent
advance base
advance fee
advance guard
advance man
advance note
advance notice
advance party
advance payment
advance poll
advance sheets
advance signal
advance to the rear
advance tracks
advance upon
advanced age
advanced degree
advanced gas-cooled reactor
advanced guard
advanced in life
advanced in years
advanced standing
advanced trainer
advanced work
advanced years
advancing color
advantage ground
advantageous purchase
advection fog
advent sunday
adventure playground
adventure story
adverb equivalent
adverbial noun
adverbial phrase
aversative asyndeton
aversative conjunction
adverse circumstances
adverse criticism
adverse party
adverse possession
adverse to
advert to
advertise of
advertise yourself
advertisement canvasser
advertisement contractor
advertising account
advertising agency
advertising man
aero-otitis
aero-otitis media
aerobic bacteria
aerobic organism
aerodynamic center
aerodynamic pitch
aerodynamic trajectory
aerodynamic volume
aerodynamic wave drag
aerogenic tuberculosis
aerological instrument
aeronautical chart
aeronautical engineer
aeronautical engineering
aeronautical meteorology
aeronautical relay
aerotitis media
aeroplane cloth
aeroplane spin
aerosol bomb
aerosol therapy
aerospace engineer
aerospace engineering
aerospace medicine
aerospace research
aerospace science
aerospace technology
aerostatic lift
aerothermodynamic duct
aerotitis media
aesthesio-
aesthetic distance
aesthetic form
aesthetic judgment
aesthetic proportions
aesthetic taste
aesthetically appealing
aestho-physiology
aetatis suae
aethiops mineral
af-
afar off
afebrile delirium
aff loof
affair of honor
affair of the heart
affaire d'amour
affaire d'honneur
afore-given
afore-going
afore-granted
afore-heard
afore-known
afore-mentioned
afore-planned
afore-quoted
afore-running
afore-seeing
afore-seen
afore-spoken
afore-stated
afore-told
afoul of
af-
afraid of your shadow
african violet
afro-american
afro-asiatic languages
aft the fantail
after a fashion
after a time
after a while
after all
after all is said and done
after bridge
after death
after deck
after mast
after shroud
after that
after the Fall
after the fact
after the flood
after the manner of men
after the war
after this
after this fashion
after time
after which
after your fancy
after your heart
after your own heart
after-
after-acquired
after-born
after-course
after-described
after-designed
after-dinner
after-dinner speaker
after-dinner speech
after-game
after-grass
after-guard
after-hours joint
after-image
after-life
after-mentioned
after-named
after-pain
after-shave lotion
after-specified
after-stampable
after-supper
after-theater
after-theatre
after-wit
after-written
afterbirth weed
afternoon lady
afternoon tea
afternoon watch
aftershave lotion
ag lug
ag-
again and again
again and yet again
again-
against all expectation
against order and discipline
against the
against the clock
against the grain
against the law
against the new and untried
against the sun
against the tide
against the time when
against the wind
against time
against your grain
against your will
agal-agal
agar-agar
agaric acid
agaric mineral
agaricic acid
agate glass
agate gray
agate jasper
agate line
agate opal
agate shell
agate snail
agatho-
agave cactus
age class
age coating
age distribution
age grade
age group
age hardening
age limit
age norm
age of Aquarius
age of consent
age of discretion
age of growing pains
age of ignorance
age of matured powers
age of responsibility
age of retirement
age score
age society
age-adorning
age-bent
age-coeval
age-cracked
age-despoiled
age-dispelling
age-encrusted
age-enfeebled
age-group
age-harden
age-honored
age-lasting
age-long
age-old
age-peeled
age-struck
age-weary
age-weathered
age-worn
agee-jawed
agency shop
agent de bourse
agent intellect
agent noun
agent of production
agent officer
agent provocateur
agent-general
agents provocateurs
ageratum blue
ages ago
agger nasi
aggravated assault
aggravated larceny
aggregate fruit
aggregate polarization
aggregate to
aggregato-
aggressive mimicry
aggressive self-confidence
aggressively self-confident
aggressor nation
agile wit
agin the government
agitator feed
agnus castus
agnus dei
agogic accent
agonic line
agonize over
agonizing pain
agony column
agony of mind
agony of spirit
agony of suspense
agrarian economics
agrarian economy
agree for the sake of argument
agree in opinion
agree in principle
agree on
agree on a verdict
agree on terms
agree provisionally
agree to
agree to anything
agree to differ
agree to disagree
agree upon
agree with
agreeable rattle
agreeable to
agreeable-sounding
agreeably to
agreed case
agreed on all hands
agreement in principle
agreement of all
agreement to disagree
agricultural agent
agricultural ant
agricultural chemical
agricultural deities
agricultural engineer
agricultural geology
agricultural region
agriculture divinity
agrimony bark
agrimony water hemp
agro-
ague bark
ague cake
ague drop
ague grass
ague tree
ague-faced
ague-plagued
ague-rid
ague-sore
ague-struck
aguja volador
ahead both motors
ahead full
ahead of
ahead of its time
ahead of the game
ahead of time
ahead one-third
ahead standard
ahead two-thirds
ahoy there
aid and abet
aid and comfort
aid for the blind
aid grant
aid prayer
aid station
aid to dependent children
aid to navigation
aid to the blind
aid-de-camp
aide-de-camp
aide-de-campship
aide-memoire
aide-mmoire
aides-de-camp
aids-de-camp
aigre-doux
aigue-marine
ailanthus family
ailanthus moth
ailanthus silkworm
aileron angle
aileron roll
aim a blow at
aim at
aim at a pigeon and kill a crow
aim high
aim to
aimed at
aiming point
ain't it the truth
air a grievance
air age
air alert
air ambulance
air arm
air armada
air attack
air bag
air base
air bath
air bed
air bell
air belt
air bends
air billow
air bladder
air blast
air blow
air blue
air box
air brake
air breather
air brick
air bridge
air brush
air bubble
air bump
air bus
air cadet
air car
air cargo
air carrier
air casing
air castle
air cataract
air cavalry
air cell
air chamber
air chest
air chief marshal
air chuck
air circuit breaker
air cleaner
air coach
air cock
air combat
air command
air commodore
air compressor
air condenser
air conditioner
air conditioning
air conduction
air consignment note
air control
air controlman
air controls
air cooler
air cooling
air corps
air corridor
air course
air cover
air crash
air crew
air crossing
air cruiser
air current
air curtain
air cushion
air cushion car
air cylinder
air discharge
air division
air drain
air drainage
air drill
air duct
air ejector
air embolism
air engine
air express
air filter
air fleet
air float
air flow
air force
air freight
air furnace
air gap
air gas
air gauge
air glow
air gun
air hammer
air harbor
air hoist
air hole
air horn
air hostess
air hunger
air injection
air injector
air intake
air jack
air jacket
air lance
air lane
air law
air layering
air leak
air legs
air letter
air level
air lift
air line
air liner
air lock
air log
air machine
air mail
air maneuver
air map
air marshal
air mass
air mattress
air medal
air medicine
air meter
air mile
air motor
air navigation
air observer
air out
air oven
air passage
air philately
air photograph
air photography
air pillow
air pilot
air piracy
air pirate
air pistol
air plant
air plot
air plug
air pocket
air police
air pollution
air pore
air post
air potato
air power
air pressure
air propeller
air pump
air race
air raid
air raid warden
air raider
air ram
air remover
air rifle
air right
air route
air sac
air scoop
air scout
air scuttle
air separation
air service
air serviceman
air shaft
air shovel
air show
air shuttle
air sleeve
air sock
air space
air spade
air speed
air spray
air sprayer
air spring
air stack
air station
air stone
air stove
air strainer
air stream
air strike
air support
air survey
air switch
air system
air taxi
air tee
air terminal
air thermometer
air thread
air traffic
air train
air transport
air trap
air travel
air trumpet
air trunk
air tube
air turbine
air twist
air umbrella
air university
air valve
air varie
air vent
air vesicle
air vice-marshal
air volcano
air volume
air war
air warden
air warfare
air washer
air waybill
air well
air wood
air zone
air-balloon
air-bind
air-blasted
air-blown
air-born
air-borne
air-bound
air-braked
air-braving
air-break switch
air-breathe
air-breathed
air-breather
air-breathing
air-bred
air-built
air-chambered
air-cheeked
air-clear
air-clutch reverse
air-condition
air-conditioned
air-conditioning
air-conscious
air-conveying
air-cool
air-cooled
air-core
air-core coil
air-cure
air-cured
air-cushion vehicle
air-defiling
air-drawn
air-dried
air-driven
air-dry
air-drying
air-earth current
air-embraced
air-express
air-faring
air-filled
air-floated
air-formed
air-hardened steel
air-hardening
air-hardening steel
air-heating
air-insulated
air-intake
air-lance
air-lanced
air-lancing
air-line
air-logged
air-mail
air-mass shower
air-minded
air-mindedness
air-pervious
air-raid
air-raid alarm
air-raid shelter
air-raid warden
air-sea rescue
air-sea rescue amphibian
air-sea rescue plane
air-season
air-seasoned
air-shy
air-slake
air-slaked
air-slaking
air-speed head
air-speed indicator
air-spray
air-sprayed
air-spun
air-stirring
air-swallowing
air-threatening
air-to-air
air-to-ground
air-to-surface
air-traffic control
air-traffic controller
air-trampling
air-twisted
air-vessel
air-wall ionization chamber
air-wise
air-wiseness
airborne controls
airborne infection
airborne intercept radar
airborne operations
airborne particles
airborne radar
airborne radioactivity
airborne rocket
airborne tactics
aircraft carrier
aircraft cloth
aircraft division
aircraft engine
aircraft engines
aircraft fabric
aircraft hydraulics
aircraft mechanic
aircraft observer
aircraft section
aircraft station
aircraft tender
airle-penny
airline hostess
airline stewardess
airline travel
airman basic
airman third class
airplane carrier
airplane cloth
airplane flare
airplane heading
airplane hijacker
airplane hijacking
airplane parts
airplane spin
alarm fire
alarm gauge
alarm post
alarm reaction
alarm signal
alarm valve
alarm watch
alarums and excursions
alaska time
alaskan malamute
albatross around your neck
albatross cloth
albedo unguis
albert-type
albite law
album board
album paper
albumen plate
albumin color
albumin tannate
albuminoid ammonia
alchim-
alchym-
alco-ometer
alco-ometric
alco-ometrical
alco-ometry
alcohol acid
alcohol engine
alcohol stove
alcohol tax
alcohol torch
alcoholic addict
alcoholic addiction
alcoholic beverage
alcoholic drink
alcoholic meningitis
alcoholic psychosis
alcool blanc
alcresta ipecac
aldehyde ammonia
aldehyde collidine
aldehyde group
aldehyde resin
alder blight
alder buckthorn
alder dogwood
alder fly
alder flycatcher
alder-
alder-leaved
alderman lizard
aldol condensation
ale brewer
ale brewing
ale drinker
ale drinking
ale feast
ale gallon
ale garland
ale glass
ale pitcher
ale seller
ale selling
ale stain
ale tun
ale vinegar
ale-blown
ale-born
ale-fed
ale-swilling
ale-washed
ale-wife
aleatory music
aleichem shalom
alekey trout
aleph-null
aleph-zero
alert for
aleurone grains
aleurone layer
alexander's foot
alfalfa butterfly
alfalfa caterpillar
alfalfa hopper
alfalfa looper
alfalfa meal
alfalfa valve
alfalfa weevil
alfresco meal
alg-
algae layer
algae zone
algal disease
algal fungus
algal-algal
algarroba bean
algebra of classes
algebra of relations
algebra of sets
algebraic conjugate
algebraic equation
algebraic extension
algebraic geometry
algebraic number
algebraic topology
algebraically closed field
algid cholera
algid fever
algin fiber
alginic acid
algo-
algorithmic language
ali-
alias dictus
alias writ
alibi out of
alien corporation
alien enemy
alien priory
alien property custodian
alien water
alienable right
alienate yourself
alienation of affections
alienation office
alieni generis
alieni juris
alight on
alight upon
alighting gear
align with
align your march
align yourself
align yourself with
aligning punch
alignment chart
alike as two peas in a pod
alimentary canal
aliquot part
aliquot tone
alis volat propriis
alive and kicking
alive to
alive with
alizarin black s
alizarin blue black s
alizarin blue s
alizarin brown
alizarin crimson
alizarin cyanine
alizarin cyanine green
alizarin dye
alizarin red
alizarin saphirol
alizarin yellow
alk gum
alk gum tree
alkali albumin
alkali blue
alkali cellulose
alkali chlorosis
alkali disease
alkali flat
alkali grass
alkali heath
alkali metal
alkali metals
alkali metaprotein
alkali mustard
alkali reserve
alkali rock
alkali soil
alkali waste
alkali weed
alkali yellow r
alkaline cell
alkaline earth
alkaline earth metal
alkaline earths
alkaline metal
alkaline reaction
alkaline tide
alkaline water
alkaline-ash diet
alkaline-earth metal
alkaline-earth metals
alkane series
alkene series
alkyd paint
alkyd resin
alkyl cyanide
alkyl group
alkyl halide
alkyl hydrosulphide
alkyl radical
alkyne series
all aboard
all about
all abroad
all agog
all agreeing
all alone
all along
all along the line
all and some
all and sundry
all animate nature
all aquiver
all around
all at once
all ataunto
all atingle
all atwitter
all being
all bets off
all but
all by your lonesome
all clear
all comers
all creation
all depend
all ears
all engines
all engines ahead
all eyes
all eyes and ears
all fives
all flesh is grass
all fool's day
all fools' day
all for
all for one
all for the best
all fours
all get out
all get-out
all gone
all good go with you
all hail
all hands
all hollow
all hopped up about
all hot and bothered
all ills that men endure
all in
all in a dither over
all in all
all in good time
all in hand
all in the day's work
all in the mind
all in the wind
all included
all jaw
all joking apart
all joking aside
all kinds of
all nerves
all night
all of
all of a flutter
all of a heap
all of a sudden
all of a twitter
all off
all on
all on one side
all one
all out
all over
all over but the shouting
all over hell
all over the lot
all over the map
all over the place
all over the shop
all over the town
all over the world
all over with
all over yourself
all present and accounted for
all put together
all ready
all right
all right already
all round
all said and done
all saints
all saints’ day
all serene
all set
all set for
all shook up
all sorts
all sorts of
all souls
all souls’ day
all square
all squares
all standing
all straight
all tears
all that
all that is
all that is coming to one
all that lives
all the
all the best
all the better
all the better for
all the comforts of home
all the cry
all the day long
all the days of your life
all the heart can desire
all the ills that men endure
all the more
all the more so
all the rage
all the same
all the thing
all the time
all the way
all the way to
all the while
all the world
all the worse for
all the year round
all there
all things considered
all things counter
all threes
all through
all through the night
all thumbs
all to
all to pieces
all to the good
all together
all told
all two
all up
all up with
all wet
all who love
all wool and a yard wide
all work
all wound up in
all wrapped up in yourself
all wrong
all you can bear
all you can do
all you can manage
all you can stand
all you can take
all your born days
all your got
all your natural life
all’ ottava
all’s well
all-
all-American
all-a-mort
all-abhorred
all-able
all-absorbing
all-accomplished
all-acting
all-admired
all-admiring
all-advised
all-affecting
all-afflicting
all-aged
all-air
all-amazed
all-american
all-appalled
all-appointing
all-approved
all-approving
all-appointed
all-armed
all-around
all-arraigning
all-arranging
all-assistless
all-atoning
all-attempting
all-availing
all-bearing
all-beauteous
all-beautiful
all-beholding
all-bestowing
all-binding
all-bitter
all-black
all-blasting
all-blessing
all-bounteous
all-bountiful
all-bright
all-brilliant
all-changing
all-cheering
all-collected
all-colored
all-comfortless
all-commander
all-commanding
all-compelling
all-complying
all-composing
all-comprehending
all-comprehensive
all-comprehensiveness
all-concealing
all-conceiving
all-concerning
all-confounding
all-conquering
all-conscious
all-considering
all-constant
all-constraining
all-consuming
all-content
all-controlling
all-convincing
all-convincingly
all-covering
all-creating
all-creator
all-crop harvester
all-curing
all-daring
all-day
all-dazzling
all-deciding
all-defiance
all-defying
all-depending
all-designing
all-desired
all-despising
all-destroyer
all-destroying
all-devastating
all-devouring
all-dimming
all-directing
all-discerning
all-discovering
all-disgraced
all-dispensing
all-disposer
all-disposing
all-divine
all-divining
all-dreaded
all-dreadful
all-drowsy
all-earnest
all-eating
all-efficacious
all-efficient
all-eloquent
all-embracing
all-embracingness
all-encompasser
all-encompassing
all-ending
all-enduring
all-engrossing
all-engulfing
all-enlightened
all-enlightening
all-enslaved
all-enslaving
all-enthusiastic
all-enthusiastically
all-entranced
all-entrancing
all-environing
all-environingness
all-enviro
all-eradicating
all-eradicating
all-eating
all-effective
all-effortless
all-effortlessly
all-effacing
all-eradicating
all-envied
all-essential
all-evil
all-excellent
all-expense
all-expenses-paid
all-eyed
all-fair
all-filling
all-fired
all-firedest
all-firedly
all-flaming
all-flotation
all-flotation
all-fly-foot
all-fly-foot
all-foreseeing
all-forgetful
all-forgetting
all-forgiving
all-forgotten
all-fullness
all-gas
all-giver
all-glory
all-glorious
all-golden
all-governing
all-gracious
all-grasping
all-great
all-guiding
all-hallow
all-hallowed
all-happy
all-healing
all-hearing
all-heeding
all-helping
all-hiding
all-holy
all-honored
all-hoping
all-hurting
all-idolizing
all-illuminating
all-imitating
all-important
all-impressive
all-in
all-in-one
all-including
all-inclusive
all-inclusiveness
all-infolding
all-informing
all-interesting
all-interpreting
all-invading
all-involving
all-jarred
all-judging
all-just
all-justifying
all-kind
all-knavish
all-knowing
all-knowingness
all-land
all-lavish
all-licensed
all-lovely
all-loving
all-maintaining
all-maker
all-making
all-maturing
all-meaningness
all-merciful
all-metal
all-might
all-miscreative
all-murdering
all-night
all-night vigil
all-noble
all-nourishing
all-obedient
all-obeying
all-oblivious
all-obscuring
all-oil
all-or-none
all-or-none law
all-ordering
all-out
all-out campaign
all-out war
all-over
all-overish
all-overishness
all-overpowering
all-overs
all-overtopping
all-panting
all-parent
all-pass
all-patient
all-peaceful
all-penetrating
all-peopled
all-perceptive
all-perfect
all-perfection
all-perfectness
all-perficient
all-persuasive
all-pervading
all-pervadingness
all-pervasive
all-pervasiveness
all-piercing
all-pitiless
all-pitying
all-pondering
all-possessed
all-potency
all-potent
all-potential
all-power
all-powerful
all-powerful ruler
all-powerfully
all-powerfulness
all-praised
all-praiseworthy
all-presence
all-present
all-prevailing
all-prevailingness
all-prevailingness
all-prevailingness
all-prevalency
all-prevalent
all-preventing
all-prolific
all-protecting
all-provident
all-providing
all-puissant
all-pure
all-purpose
all-quickening
all-rail
all-rapacious
all-reaching
all-red
all-redeeming
all-relieving
all-rendering
all-righteous
all-round
all-round price
all-roundedness
all-rounder
all-rubber
all-ruling
all-sacred
all-sanctifying
all-satiating
all-satisfying
all-saving
all-sayer
all-sea
all-searching
all-seeing
all-seeingly
all-seeingness
all-seer
all-shaking
all-shamed
all-shaped
all-shrouding
all-shunned
all-sided
all-silent
all-sized
all-sliming
all-soothing
all-sorts
all-soul
all-spreading
all-star
all-stars
all-steel
all-strangling
all-subduing
all-submissive
all-substantial
all-sufficiency
all-sufficient
all-sufficiently
all-sufficing
all-surpassing
all-surrounding
all-surveying
all-sustainer
all-sustaining
all-swallowing
all-swaying
all-telling
all-terrible
all-thorny
all-time
all-time great
all-tolerating
all-transcending
all-triumphing
all-truth
all-turned
all-turning
all-understanding
all-unwilling
all-upholder
all-upholding
all-various
all-vast
all-watched
all-water
all-wave receiver
all-weak
all-weather
all-weather fighter
all-weight
all-whole
all-wisdom
all-wise
all-wisely
all-wiseness
all-wondrous
all-wood
all-wool
all-working
all-worshiped
all-worthy
all-wrongness
all-year
alla bolognese
alla breve
alla cacciatore
alla capella
alla diavola
alla fiorentina
alla marcia
alla marinara
alla milanese
alla parmigiana
alla pizzaiola
alla prima
alla romana
alla siciliana
alla veneziana
alla vostra salute
allan hawk
allantoic membrane
allee couverte
allegation of facts
allege in support
allege in vindication
allegheny spurge
allemande sauce
aller sans dire
aller-retour
allergic disease
allergic disorder
allergic gastritis
allergic rhinitis
allergic shock
allergy diet
alley cat
alley-oop
allez-vous-en
alice shad
alligation alternate
alligation medial
alligator apple
alligator bonnets
alligator buttons
alligator cacao
alligator clip
alligator fish
alligator forceps
alligator gar
alligator head
alligator jaw
alligator juniper
alligator lizard
alligator pear
alligator pepper
alligator shear
alligator shears
alligator snapper
alligator snapping turtle
alligator squeezer
alligator terrapin
alligator tree
alligator turtle
alligator wampee
alligator weed
alligator wrench
alliterative meter
allo-
allo-octaploid
allow for
allow the occasion to go by
allow yourself to hope
allowance account
allowance race
allowed time
allowing that
alloy balance
alloy charge
alloy iron
alloy steel
alloyed junction
allspice oil
allspice tree
allude to
alluring gland
alluvial cone
alluvial fan
alluvial plain
allways fuze
ally-ally out’n free
allyl alcohol
allyl aldehyde
allyl caproate
allyl chloride
allyl group
allyl isothiocyanate
allyl mercaptan
allyl mustard oil
allyl radical
allyl resin
allyl sulfide
allyl sulphide
allyl thiocarbamide
alma mater
alma-materism
almain-rivets
almenn turma
almes se
almighty dollar
almond black
almond brown
almond cake
almond extract
almond eye
almond family
almond green
almond kernel
almond meal
almond milk
almond oil
almond paste
almond peach
almond tumbler
almond willow
almond-eyed
almond-furnace
almond-leaved
almond-leaved willow
almond-shaped
almoner's cupboard
almost entirely
almost everywhere
almost periodic function
almost unheard-of
alms bag
alms basin
alms basket
alms box
alms bread
alms chest
alms dish
alms fee
alms gate
alpha-hypophamine
alpha-naphthol
alpha-naphthyl group
alpha-naphthyl radical
alpha-naphthylamine
alpha-naphthylthiourea
alpha-particle scattering
alpha-stannic acid
alpha-tocopherol
alpha-truxilline
alphabet book
alphabet code
alphabet method
alphabet plant
alphabet soup
alphabetic character
alphabetic data
alphabetic symbol
alphabetical printer
alphanumeric code
alpine anemone
alpine aster
alpine azalea
alpine bartsia
alpine beardtongue
alpine bent grass
alpine birch
alpine bistort
alpine brook saxifrage
alpine campion
alpine catchfly
alpine chough
alpine clover
alpine cress
alpine eyebright
alpine fir
alpine fireweed
alpine forget-me-not
alpine garden
alpine geranium
alpine glacier
alpine goldenrod
alpine hemlock
alpine holy grass
alpine lady fern
alpine larch
alpine lousewort
alpine molewort
alpine oat grass
alpine poppy
alpine rice grass
alpine rock cress
alpine rose
alpine sedge
alpine spring beauty
alpine spruce
alpine strawberry
alpine tundra
alpine umbrella plant
alpine whitebark pine
alpine whorl grass
alpine woodsia
alps on alps
already in sight
alsike clover
also not
also-ran
alta vox
altar board
altar boy
altar bread
altar call
altar card
altar carpet
altar chime
altar cloth
altar desk
altar dues
altar facing
altar front
altar hearse
altar mound
altar of prothesis
altar of repose
altar plate
altar rail
altar side
altar slab
altar stair
altar stand
altar stead
altar stole
altar stone
altar tomb
altar wine
altazimuth mounting
alter ego
alter idem
alter into
alter your course
altered chord
alternate angles
alternate choice
alternate plumage
alternate school
alternate straight
alternate-leaved
alternating current
alternating current motor
alternating group
alternating light
alternating personality
alternating series
alternating voltage
alternating-current circuit
alternating-current servo
alternating-gradient focusing
alternation of generations
alternative school
alternative vote
alterni-
alti-
alti-rilievi
altitude dial
altitude mixture control
altitude of flight
altitude peak
altitude pressure
altitude sickness
alto clarinet
alto clef
alto flute
alto horn
alto saxhorn
alto viol
alto-
alto-cumulus
alto-cumulus-castellatus
alto-relievo
alto-relieves
alto-rilievo
alto-stratus
altocumulus castellanus
altocumulus castellatus
alocumulus floccus
alocumulus lenticularis
alocumulus stratiformis
altogether, the
altruistic ethics
aluchi resin
aludel furnace
alum cake
alum carmine
alum cochineal
alum flower
alum glass
alum haematoxylin
alum meal
alum rock
alum schist
alum shale
alum stone
alum-hypo toning process
alumina cement
alumina cream
alumina trihydrate
aluminio-
aluminium hydroxide
aluminium oxide
aluminium sulphate
alumno-
aluminous cake
aluminum acetate
aluminum ammonium sulfate
aluminum borate
aluminum borohydride
aluminum brass
aluminum bronze
aluminum carbide
aluminum chloride
aluminum family
aluminum fluosilicate
aluminum foil
aluminum gold
aluminum hydrate
aluminum hydroxide
aluminum monostearate
aluminum nitrate
aluminum oxide
aluminum paint
aluminum potassium sulfate
aluminum silicate
amber oil
amber opal
amber pear
amber seed
amber snail
amber tree
amber yellow
amber-clear
amber-colored
amber-days
amber-dropping
amber-dropping hair
amber-headed
amber-hued
amber-locked
amber-tinted
amber-tipped
amber-weeping
amber-white
amber-yielding
ambi-
ambient phenomena
ambient temperature
ambiguous expression
ambil-anak
ambit piousness
ambitious for self
ambivalence of impulse
ambretta seed
ambrette seed
ambrette-seed oil
ambrosia beetle
ambs-ace
ambulacral foot
ambulance chaser
ambulance chasing
ambulatory plague
ambuling communion
ambush bug
ame damnee
amebic dysentery
amen corner
amende honorable
amende profitable
amende-honorable
amendes honorables
american chameleon
american cheese
ammonia process
ammonia soda
ammonia soda ash
ammonia soda process
ammonia solution
ammonia turpeth
ammonia valve
ammonia water
ammoniac plant
ammoniacal liquor
ammoniaco-
ammonio-
ammonioferric oxalate
ammonium acetate
ammonium alum
ammonium amalgam
ammonium base
ammonium bicarbonate
ammonium bifluoride
ammonium binoxalate
ammonium bromide
ammonium carbamate
ammonium carbonate
ammonium chloride
ammonium chrome alum
ammonium chromic sulfate
ammonium cyanate
ammonium hydrosulphide
ammonium hydroxide
ammonium lactate
ammonium molybdate
ammonium nitrate
ammonium oxalate
ammonium persulphate
ammonium phosphate
ammonium purpurate
ammonium salt
ammonium selenate
ammonium stearate
ammonium sulfate
ammonium sulphate
ammonium sulphide
ammonium thiocyanate
ammonium thiosulfate
ammono acid
ammono base
ammono salt
ammunition box
ammunition bread
ammunition chest
ammunition depot
ammunition hoist
ammunition legs
ammunition scuttle
ammunition ship
ammunition shoes
amnesic aphasia
amnestic aphasia
amniotic fluid
amniotic sac
amobarbital sodium
amoeba disease
amoebian verse
amoebic dysentery
among other things
among the blest
among the living
among us
amor patriae
amorous dalliance
amorous looks
amorous pursuit
amorpho-
amorphous ergotinine
amorphous phosphorus
amount at risk
amount due
amount limit
amount of money
amount of stock
amount to
amount to something
amour propre
amour-propre
amparo blue
amparo purple
ampere arc
ampere balance
ampere turn
ampere-foot
ampere-hour
ampere-hour meter
ampere-minute
ampere-second
ampere-turn
amperometric titration
amphetamine sulfate
amphetamine sulphate
amphetamine withdrawal symptoms
amphi-
amphibian tractor
amphibian transport
amphibious attack
amphibious operations
amphibious warfare
amphibole group
ample scope
ample sufficiency
amplification factor
amplifier chain
amplifier circuit
amplifying circuit
amplifying generator
amplitude compass
amplitude control
amplitude factor
amplitude modulation
amply endowed
ampullar sense
ampus-and
amrad gum
amuse yourself
amusement arcade
amusement device
amusement park
amusement ride
amusement tax
amygdalic acid
amygdalo-uvular
amygdaloid nucleus
amygdonitrile glucoside
amyl acetate
amyl alcohol
amyl ether
amyl group
amyl isovalerate
amyl nitrite
amyl oxide
amyl propionate
amyl radical
amyl salicylate
amyl sulfide
amyl-
amyl-acetate lamp
amylacetic ether
amyylene hydrate
amylo-
amyloid degeneration
amyllum body
amyllum center
amyllum grain
amyllum star
amyotrophic lateral sclerosis
amyris oil
an O without a figure
an arm and a leg
an arrant
an average
an awfully big adventure
an ear for
an eater of broken meats
an echo of the invisible world
an emblem
an epidemic insanity
an error
an eternity
an existence
an eye for
an eye for an eye
an in
an incurable disease
an inhabiting
an instant arrested in eternity
an intelligence served by organs
an itch for the praise of fools
an old dog at
an old hand at
an uncertainty
an unfathomable Somewhat
an unhappy crossbreed
an universal wolf
an-
an-end
ana-
anabolic steroid
anacardium nut
anaconda gourd
anadama bread
anaerobic bacteria
anaerobic organism
anak kuching
anal canal
ancestor worship
ancestral halls
ancestral spirits
anchieta bark
anchor ball
anchor bar
anchor bed
anchor bell
anchor bend
anchor bolt
anchor box
anchor buoy
anchor chain
anchor chock
anchor dart
anchor deck
anchor drag
anchor escapement
anchor hold
anchor hoy
anchor ice
anchor knot
anchor lift
anchor light
anchor lining
anchor link
anchor log
anchor man
anchor money
anchor nurse
anchor plant
anchor plate
anchor pocket
anchor ring
anchor rocket
anchor rod
anchor rode
anchor shackle
anchor shot
anchor space
anchor span
anchor tee
anchor watch
anchor watchman
anchor well
anchor-shaped
anchorage ground
anchorite monasticism
anchoritic monasticism
anchors aweigh
anchovy pear
ancien régime
ancienne noblessé
ancien régime
ancienne noblesse
ancien régime
ancient history
ancient language
ancient literature
ancient manuscript
ancient times
ancient wisdom
and Cultural Organization
and God knows what
and Harry
and Holy Ghost
and I don't know what
and Ireland
and Robinson
and Slovenes
and Welfare
and a light unto my path
and a pull all together
and all
and all like that
and all that
and all that sort of thing
and also
and an eminently contagious one
and ancient as the sun
and arithmetic
and barrel
and be merry
and blue
and bobtail
and built by hands divine
and candle
and circuit
and circumstance
and collected
and crack your cheeks
and delivered
and dissolve itself
and everything else
and everywhere
and fish
and flesh of my flesh
and handsome
and happy
and hates them for it
and heaven knows what
and jump
and keep your powder dry
and listen
and making it five
and many more
and more of the same
and night
and no mistake
and not
and nothing but the truth
and of Night
and off the hinges
and other things
and others
and pence
and pine
and portents and evils imminent
and pursue it
and quarter
and quit yourselves like men
and running over
and shaken together
and sinker
and so
and so forth
and so on
and strengt
and stuff like that
and suchlike
and tell them
and the blind
and the fish of the sea
and the following
and the like
and the post
and the pursuit of happiness
and the queen of sleep
and the rest
and the seeing of blind
and the waste of life
and then some
and unprofitable
and weep with them that weep
and what have you
and what not
and-
anda oil
anda-assu
anda-assu oil
andante moderato
andante tempo
andr-
andro-
androgenital syndrome
anem-
anemia lymphatica
anemo-
anemone camphor
anemone fish
anemone-flowered dahlia
aneroid barograph
aneroid barometer
aneroid capsule
anesthetic ether
ang-khak
angel bed
angel cake
angel fish
angel food
angel food cake
angel gold
angel light
angel of death
angel of light
angel of love
angel red
angel shark
angel shot
angel sleeve
angel tree
angel water
angel's footstool
angel's tears
angel's-trumpet
angel-borne
angel-bright
angel-builted
angel-eyed
angel-faced
angel-guarded
angel-heralded
angel-noble
angel-seeming
angel-warned
angelic host
angelica tree
angelica-root
angelin seeds
angels' tears
angels-on-horseback
angi-
angico gum
angina pectoris
angio-
angioneurotic edema
angle away
angle bar
angle bead
angle beam
angle board
angle brace
angle bracket
angle brackets
angle brick
angle bulb
angle capital
angle chair
angle cleat
angle clip
angle collar
angle for
angle gear
angle iron
angle measurement
angle meter
angle of attack
angle of bank
angle of climb
angle of dead rise
angle of deviation
angle of dip
angle of heel
angle of incidence
angle of lag
angle of lead
angle of pitch
angle of polarization
angle of reflection
angle of refraction
angle of repose
angle of roll
angle of sideslip
angle of stabilizer setting
angle of view
angle of vision
angle of wing setting
angle of yaw
angle off
angle plate
angle rafter
angle reflector
angle rib
angle set
angle shaft
angle shear
angle staff
angle steel
angle tie
angle with a silver hook
angle-off
angle-rack tool
angled draft
angled-toothed
angler fish
anglo-
anglo-catholic
anglo-french
anglo-indian
anglo-norman
anglo-saxon
angora cat
angora goat
angora rabbit
angostura bark
angostura bitters
angry clouds
angry look
angry young man
angry young woman
angry-eyed
angry-looking
angstrom unit
angstrom unit Angstrom
angular acceleration
angular data
angular dispersion
angular displacement
angular frequency
angular geometric
angular geometric figures
angular leaf spot
angular magnification
angular momentum
angular momentum quantum number
angular motion
angular perspective
angular velocity
angular-toothed
angular-winged katydid
angulated sail
angulato-
angulo-
anguloso-
angusti-
anhalonium alkaloid
anharmonic ratio
anhydro base
anhydro-
anidian monster
aniline black
aniline blue
aniline dye
aniline hydrochloride
aniline oil
aniline purple
aniline salt
aniline yellow
anima aloes
anima bruta
anima humana
anima mundi
animadvert on
animadvert upon
animal abode
animal and vegetable kingdom
animal black
animal capable of reason
animal carver
animal cell
animal cellulose
animal charcoal
animal charge
animal color
animal comfort
animal cracker
animal culture
animal cunning
animal-sized
animate existence
animate matter
animated cartoon
animated oat
animating force
animating power
animating principle
animating spirit
animation photography
animis opibusque parati
animistic spirit
animus cancellandi
animus capiendi
animus derelinquendi
animus furandi
animus injuriandi
animus lucrandi
animus manendi
animus possidendi
animus recipiendi
animus remanendi
animus revertendi
animus revocandi
animus testandi
anionic detergent
anis-
anise camphor
anise hyssop
anise oil
anise plant
anise-scented goldenrod
aniseed fox
aniseed oil
aniseed star
aniseed tree
anisic alcohol
anisic aldehyde
aniso-
anisyl acetate
anisyl alcohol
ankle boot
ankle clonus
ankle cutter
ankle jerk
ankle ring
ankle sock
ankle strap
ankle tie
ankle-deep
ankle-jacked
annatto tree
anni mirabiles
annihilation radiation
anno Domini
anno Hejirae
anno aetatis suae
anno domini
anno hejirae
anno mundi
anno regni
anno urbis conditae
annotated bibliography
announce with beat of drum
announced motive
annual bibliography
annual bluegrass
annual epact
annual holiday
annual parallax
annual percentage rate
annual period
annual ring
annual wage
annuit coeptis
annuities certain
annuity bond
annuity certain
annuity gift
annul a marriage
annular clock
annular eclipse
annular ligament
annular muscle
annunciator system
annus magnus
annus mirabilis
ano-
anode dark space
anode glow
anode ray
anode rays
anode resistance
anodized aluminum
anodyne necklace
anointed king
anomalous month
anomalous year
anomalo-
anomalous zeeman effect
anomo-
anorexia nervosa
anorthite-basalt
another crack
another go
another kettle of fish
another shot
another time
another try
another-gates
another-guess
another-guise
anoxic anoxia
anp-
ansa hypoglossi
ansa subclavia
ansate cross
anserine skin
answer back
answer book
answer conclusively
answer for
answer the call of duty
answer the helm
answer the purpose
answer to
answer to a problem
answer to no man
answer-back
answerable for
answerable to
answering pennant
answering service
ant acacia
ant bear
ant bird
ant catcher
ant cattle
ant cow
ant egg
ant fly
ant heap
ant hill
ant hillock
antenna filter
antenna grounding switch
antenna inductance
antenna mine
antenna resistance
antenna switch
antenna tower
antennae sword
antennal gland
antennal lobe
antenuptial contract
antenuptial settlement
anterior pituitary
anterior pituitary luteotropin
antero-
anterograde amnesia
anterograde memory
anth-
anthelic arcs
anther cell
anther lobe
anther sac
anther smut
antho-
anthra-
anthracene brown
anthracene oil
anthracene yellow
anthracite black
anthracite coal
anthraquinone dye
anthrax vaccine
anthrop-
anthropo-
anthropoid ape
anti-
anti-American
anti-Arab
anti-Aristotelian
anti-Aristotelianism
anti-Australian
anti-Austria
anti-Austrian
anti-Bible
anti-Biblical
anti-Bolshevik
anti-Malthusianism
anti-Mexican
anti-Negro
anti-Negroes
anti-Negroism
anti-Nordic
anti-Oriental
anti-Orientalism
anti-Orientalist
anti-Plato
anti-Platonic
anti-Platonically
anti-Platonism
anti-Platonist
anti-Polish
anti-Populist
anti-Protestant
anti-Protestantism
anti-Puritan
anti-Puritanism
anti-Roman
anti-Romanist
anti-Russia
anti-Russian
anti-Scandinavia
anti-Scripture
anti-Scripturist
anti-Semite
anti-Semite
anti-Semite
anti-Semites
anti-Semite
anti-Semites
anti-Socrates
anti-Socratic
anti-Soviet
anti-Spain
anti-Spanish
anti-Sweden
anti-Swedish
anti-Teuton
anti-Teutonic
anti-Trinitarian
anti-Trinitarianism
anti-Turkish
anti-Zionism
anti-Zionist
anti-acid
anti-aircraft
anti-attrition
anti-birmingham
anti-christian
anti-depressant
anti-emetic
anti-ethmc
anti-federalist
anti-gallic
anti-gallican
anti-gallican hitch
anti-gallicanism
anti-god
anti-guggler
anti-hero
anti-heroic
anti-hog-cholera
anti-icer
anti-icteric
anti-idealism
anti-idealist
anti-idealistic
anti-idealistically
anti-idolatrous
anti-immigration
anti-immigrationist
anti-immune
anti-imperialism
anti-imperialist
anti-imperialistic
anti-incrustator
anti-indemnity
anti-induction
anti-inductive
anti-inductively
anti-inductiveness
anti-infallibilist
anti-infantal
anti-innovationist
anti-intellectual
anti-intellectualism
anti-intellectualist
anti-intellectuality
anti-intermediary
anti-isolation
anti-isolationism
anti-isolationist
anti-isolysin
anti-jacobin
anti-jacobinism
anti-laissez-faire
anti-leaguer
anti-lecompton
anti-maniacal
anti-mony-yellow
anti-nebraska
anti-nicaean
anti-novel
anti-novelist
anti-odontalgic
anti-open-shop
anti-orgastic
anti-over
anti-pre-existentiary
anti-roman
anti-somite
anti-sub rocket
anti-submarine rocket
anti-trade
anti-worlds
antiaircraft artillery
antiaircraft barrage
antiaircraft fire
antiaircraft gun
antiaircraft gun positioner
antiaircraft radar
antiaircraft rocket
antiballistic missile
antiballistic-missile system
antiberi-beri factor
antiblackout suit
antiblastic immunity
antic wit
anticipate a blessed event
anticipating a blessed event
anticrepuscular arch
antidote cacoon
antidote lily
antidrag wire
antifouling paint
antifriction bearing
antifriction curve
antifriction metal
antifriction wheels
antigen treatment
antigen-antibody product
antilift wire
antimine rocket
antimissile missile
antimonic acid
antimonioso-
antimonous hydride
antimony blende
antimony bloom
antimony chloride
antimony cinnabar
antimony crocus
antimony crude
antimony glance
antimony glass
antimony hydride
antimony ocher
antimony orange
antimony oxide
antimony oxychloride
antimony pentachloride
antimony pentasulfide
antimony pentasulphide
antimony pentoxide
antimony potassium tartrate
antimony red
antimony regulus
antimony rubber
antimony saffron
antimony salt
antimony sulfate
antimony sulfide
antimony sulphide
antimony tetroxide
antimony trichloride
antimony trifluoride
antimony trioxide
antimony trisulfide
antimony trisulphide
antimony vermilion
antimony white
antimony yellow
antimonyl potassium tartrate
antinoise microphone
antiophthalmic factor
antiophthalmic vitamin
antipernicious anemia factor
antipersonnel bomb
antipersonnel mine
antiphonal chanting
antiphonal singing
antipodal points
antiquated expression
antiquated person
antiquated word
antique brass
antique bronze
antique brown
antique cloth
antique collector
antique crown
antique dealer
antique drab
antique glass
antique gold
antique green
antique plane
antique red
antique store
antique-car collector
antiradar rocket
antisepctic surgery
antisocial attitudes
antisocial personality
antisocial sentiments
antisterility factor
antisubmarine bomb
antisubmarine mortar
antisubmarine patrol
antisubmarine plane
antisubmarine projector
antisubmarine radar
antisymmetrical tensor
antitank gun
antitank mine
antitank rifle
antitank rocket
antitorque rotor
antitoxic globulin
antitoxic serum
antitwilight arch
antixerophthalmic vitamin
antler moth
antlion fly
ants in your pants
antsy-pantsy
anvil block
anvil chisel
anvil cloud
anvil cupper
anvil cutter
anvil dross
anvil forger
anvil maker
anvil top
anvil vise
anvil-drilling
anvil-faced
anvil-facing
anvil-headed
anxiety equivalent
anxiety hysteria
anxiety neurosis
anxiety reaction
anxiety state
anxious bench
anxious concern
anxious for
anxious seat
anxiouslyed up
any Tom
any color
any day
any he
any hour
any minute
any moment
any more
any old way
any one
any road
any time
any time now
any which way
any-kyn
anything but
anything like
anything soever which
anywhere near
ao dai
aoi tsuba
aortic arch
aortic incompetence
aortic insufficiency
aortic stenosis
aortic valve
ap proving
ap-
apache dance
apar-
apart from
apartment building
apartment hotel
apartment house
ape about
ape fissure
ape hand
ape man
ape over
ape-headed
ape-man
ape-men
apel-
apen-
aper-
aperiodic discharge
aperture card
aperture ratio
aperture stop
aperture vignette
apet-
apex beat
apex rule
aph-
aphid lion
aphid rosette
aphid-lion
aphis fly
aphis foot
aphis lion
aphis wolf
aphis-lion
aphlogistic lamp
aphthous fever
aphthous stomatitis
apical meristem
apico-alveolar
apico-dental
aplasic anemia
apo-
apoacha trium annorum
apocrine gland
apologize for
apoplectic stroke
aposematic mimicry
apostle bird
apostle jug
apostle spoon
apostles’ creed
apostolic age
apostolic brief
apostolic church
apostolic delegate
apostolic faith
apostolic father
apostolic orders
apostolic succession
apostolic vicar
apothecaries' measure
apothecaries' weight
apothecary jar
apothecary's shop
appalachian tea
apparatus belli
apparatus criticus
apparent candlepower
apparent character
apparent destiny
apparent fate
apparent heir
apparent horizon
apparent magnitude
apparent soundness
apparent time
apparent wind
apparently sound
appeal motion
appeal to
appeal to a higher court
appeal to arms
appeal to the country
appeal to the law
appeal to the sword
appeal to you for
appeal to your better feelings
appear for
appear in print
appear like
appear on the horizon
appear on the scene
appear on the stage
appear to be
appear to your eyes
appear unexpectedly
appearance money
appearances are in favor of
appellate court
appellate division
appellate jurisdiction
appendico-enterostomy
appendicular skeleton
appendix vermiformis
apperception mass
apperception test
apport to
apporting store
appian way
applaud to the very echo
apple anthracnose
apple aphid
apple banana
apple bee
apple blight
apple blossom
apple blotch
apple box
apple brandy
apple bucculatrix
apple butter
apple canker
apple cheese
apple curculio
apple dumpling
apple essence
apple family
apple fly
apple fritter
apple geranium
apple grain aphid
apple green
apple grunt
apple gum
apple haw
apple juice
apple knocker
apple leaf
apple maggot
apple mildew
apple mint
apple moss
apple moth
apple of discord
apple of your eye
apple oil
apple pandowdy
apple pie
apple polisher
apple pox
apple psylla
apple rosette
apple rust
apple sauce
apple scab
apple scald
apple scale
apple shell
apple slump
apple snail
apple sucker
apple tart
apple toddy
apple tree
apple tree borer
apple turnover
apple weevil
apple wine
apple worm
apple-cheeked
apple-eating
apple-faced
apple-fallow
apple-john
apple-pie
apple-pie bed
apple-pie order
apple-polish
apple-polisher
apple-polishing
apple-scented
apple-shaped
apple-stealing
apple-twig
apple-twig beetle
apple-twig borer
applejack brandy
apples and pears
apleton layer
appletree borer
applicate number
application for retrial
application lace
applied chemistry
applied kinematics
applied linguistics
applied mathematics
applied mechanics
applied physics
applied psychology
applied science
applied tactics
applique lace
apply for
apply margin
apply paint
apply pressure
apply reason
apply the attention to
apply the match to
apply the mind
apply the mind to
apply the torch to
apply the yardstick to
apply to
apply yourself
apply yourself to
applying color
appoint yourself
appointed lot
appointment calendar
appointment schedule
apportionment bill
apposition beach
appositive genitive
appraisal clause
appreciate differences
appreciation bond
appreciation of differences
appreciation of excellence
appreciative of
apprentice printer
apprentice seaman
apprentice teacher
apprentice work
apprentice yourself to
apprised of
approach anchorage
approach leg
approach light
approach of time
approach path
approach shot
approach trench
appropriate for
appropriate to
appropriation bill
approval book
approval sheet
approve of
approved school
apricot brandy
apricot palm
apricot plum
apricot scale
apricot sour
apricot vine
apricot wine
apricot yellow
apricot-kernal
april fool
april fools' day
apron conveyer
apron lining
apron man
apron piece
apron plate
apron roll
apron shield
apron stage
apron string
apron wall
apron-squire
apron-string
apropos of
apse aisle
apse line
apt to
aptitude test
aqua ammonia
aqua ammoniae
aqua aromatic
aqua bromata
aqua bulliens
aqua caelestis
aqua camphirae
aqua chlorata
aqua fortis
aqua green
aqua labyrinthi
aqua marina
aqua mirabilis
aqua phagedaenica nigra
aqua pura
aqua regia
aqua rosae
aqua tofana
aqua vitae
aqua-vitae
aquamarine chrysolite
aquamarine topaz
aquatic plant
aqueduct bridge
aqueduct of Sylvius
aqueo-
aqueous ammonia
aqueous humor
aqueous humour
aquiline-nosed
aquo-ion
ar-
arabian coffee
arabic numeral
arabica coffee
arable land
arachidic acid
arachis oil
arachnoid granulation
arachnoid membrane
arba kanfoth
arbiter elegantiae
arbiter elegantiarum
arbiter of fashion
arbiter of taste
arbitement of the sword
arbitrated par
arbitration bar
arbitration treaty
arbor day
arbor press
arbor shaft
arbor vine
arbor vitae
arborization block
arborvitae leaf miner
arc column
arc cosecant
arc cosine
arc cotangent
arc discharge
arc flame
arc furnace
arc generator
arc lamp
arc light
arc lighting
arc pitch
arc process
arc secant
arc sine
arc spectrum
arc tangent
arc transmitter
arc weld
arc welder
arc welding
arc-back
arc-boutant
arc-jet engine
arc-over
arc-shaped
arcane meaning
arcanum arcanorum
arch aurora
arch bar
arch barrel
arch beam
arch board
arch brace
arch brick
arch bridge
arch buttress
arch dam
arch head
arch order
arch over
arch press
arch ring
arch solid
arch spring
arch stone
arch support
arch-
arch-brahman
arch-butler
arch-buttress
arch-chanter
arch-christendom
arch-christianity
arch-enemy
arch-fiend
arch-flamen
arch-foe
arch-gravity dam
arch-heretic
arch-poet
arch-prelate
arch-presbyter
arch-protestant
arch-sea
arch-traitor
arch-villain
arch-whig
archae-
arcaic smile
archaic white race
arched roof
arched truss
archepiscopal cross
archery ground
arches-court
archetypal idea
archetypal image
archetypal myth
archetypal pattern
archetypal symbol
archetypal world
archi-
archeepiscopal cross
archil extract
archil liquor
archimedes' screw
archippus butterfly
architect's table
architectural bronze
architectural capitals
architectural draftsman
architectural engineer
architectural ornamentation
architectural ornamentations
architectural sculpture
architectural topping
architectural toppings
architecture styles
arcing contact
arcing jaws
archs-boutants
arctic char
arctic circle
arctic fox
arctic rescue helicopter
arctic sea smoke
arctic seal
arctic smoke
arctic tern
arctic timothy
arctico-altaic
arcus senilis
arcwise connected set
ardent friend
ardent friendship
ardent imagination
ardent spirits
ardor urinae
area bombing
area code
area gate
area graph
area measure
area measures
area opaca
area pellucida
area rule
area sneak
area study
area vasculosa
area vector
area vitellina
area wall
area-moment method
areal linguistics
areca catechu
areca nut
areca palm
arena theater
arena theatre
arenaceo-
arenoso-
areo-
areolate mildew
argan oil
argan tree
argemone oil
argent-vive
argentella lace
argentine thistle
argent-
argento-cuprous sulfide
argillaceo-
argillo-
arginine phosphagen
argle-bargie
argle-bargle
argon lamp
argon potassium dating
argue at the bar
argue down
argue for
argue insincerely
argue into
argue to no purpose
argue your case
argue-bargue
argument by analogy
argument from design
argument principle
argumentMaths
arguments at the bar
argumentum a fortiori
argumentum ad baculum
argumentum ad captandum
argumentum ad captandum vulgus
argumentum ad hominem
argumentum ad rem
argumentum baculinum
argus brown
argus pheasant
argus shell
argus tortoise beetle
argus-eyed
argy-bargied
argy-bargies
argy-bargy
argy-bargying
argyr-
arh-
aria buffa
aria cantabile
aria d'agitata
aria d'imitazione
aria da capo
aria da chiesa
aria di bravura
aria di coloratura
aria fugata
aria parlante
aria singer
arias da capo
arid region
ariel gazelle
ariel petrel
ariel toucan
arise and go to
arise from
arising from
aristo-
aristocratic disdain
aristocratic presumption
arithmetic mean
arithmetic progression
arithmetic series
arithmetical progression
arithmetical proportion
arithmetic-geometric
arithmetic-geometrical
arithmo-
arjun wax
ark shell
arkwright furniture
arle penny
arles penny
arm band
arm board
arm coil
arm garter
arm gear
arm guard
arm in arm
arm of the law
arm of the sea
arm of the service
arm stake
arm viol
arm wrestling
arm-chair
arm-great
arm-headed
arm-hole
arm-in-arm
arm-linked
arm-shaped
armadillo shell
armature assembler
armature bader
armature binder
armature reaction
armature winder
armature winding
armchair authority
armchair philosopher
armed and ready
armed assault
armed at all points
armed bullhead
armed cap-a-pie
armed combat
armed conflict
armed force
armed forces
armed guard
armed neutrality
armed robbery
armed service
armed to the teeth
armed with patience
armes parlantes
armillary sphere
arming cap
arming chest
arming doublet
armistice day
armless chair
armor belt
armor grating
armor plate
armor plating
armor-bearer
armor-clad
armor-piercing
armor-plate
armor-plated
armored cable
armored car
armored combat
armored corps
armored cruiser
armored dinosaur
armored forces
armored heart
armored scale
armored tactics
armored vessel
armorial bearings
armour plate
armour-bearer
armour-clad
armour-piercing
armour-plate
armoured car
armoured troops
arms of Morpheus
arms race
army ant
army area
army brat
army brown
army corps
army cutworm
army engineer
army engineering
army group
army nurse corps
army of occupation
army reserves
army service corps
army troops
army worm
arnica bud
arooint thee
aromatic compound
aromatic gum
aromatic spirits of ammonia
aromatic water
aromatized wine
around the bush
around the clock
around-the-clock
arouse notice
arouse the memory
arouse your enthusiasm
arouse your passion
arrange a match
arrange evidence
arrange for
arrange in layers
arrange in levels
arrange in strata
arrange in tiers
arrange itself
arrange matters
arrange your ideas
arrange your thoughts
arrant coward
arras-wise
arrear-guard
arrear-ward
arrest attention
arrest of judgment
arrest the thoughts
arrest your notice
arrested development
arresting gear
arrestor hook
arriere fee
arriere tenant
arriere vassal
arriere-ban
arriere-pensee
arris fillet
arris gutter
arris piece
arris rail
arrive at
arrive at a conclusion
arrive at an agreement
arrive in
arrive upon
arrogate to yourself
arrow aimed at your heart
arrow arum
arrow cane
arrow for
arrow grass
arrow horn
arrow maker
artichoke green
article of commerce
article of faith
article of merchandise
article of virtu
article writer
articled clerk
articles of association
articles of faith
articles of religion
articulated locomotive
articulated lorry
articulatory phonetics
artificer branch
artificial aids
artificial antenna
artificial blond
artificial dye
artificial feedback kidney
artificial feel
artificial fiber
artificial heart
artificial horizon
artificial immunity
artificial insemination
artificial intelligence
artificial isotope
artificial kidney
artificial lake
artificial language
artificial languages
artificial leech
artificial magnet
artificial nucleation
artificial pacemaker
artificial person
artificial radioactivity
artificial respiration
artificial satellite
artificial satellites
artificial selection
artificial sweetener
artificial turf
artificial voice
artillery hub
artillery park
artillery plant
artillery train
artillery wagon
artillery wheel
artisan work
artist lithography
artist's model
artist's proof
artist-in-residence
artiste-peintre
artistic administrator
artistic director
artistic flair
artistic imagination
artistic invention
artistic judgment
artistic production
artistic quality
artistic school
artistic skill
artistic style
artistic taste
artistic temperament
artists' canvas
arts and crafts
arts college
arts of design
arts-man
arts-master
artsy-craftsiness
artsy-craftsy
arty-craftiness
arty-crafty
arum family
arum lily
aryl group
aryl radical
aryteno-
aryteno-epiglottic
arytenoid cartilages
as I live and breathe
as a body
as a bonus
as a case in point
as a consequence
as a cover
as a cover-up
as a gift
as a guess
as a joke
as a matter of course
as a matter of fact
as a matter of form
as a pretext
as a profession
as a replacement for
as a result
as a result of
as a rough guess
as a rule
as a substitute for
as a vocation
as a whole
as agreed upon
as all creation
as all get-out
as an alibi
as an alternative
as an alternative to
as an approximation
as an example
as an excuse
as an instance
as attested by
as bad as bad can be
as bad as they come
as bad as they make 'em
as best as you can
as big as life
as boundless as the sea
as broad as long
as can be
as chaste as Diana
as chaste as unsunn'd snow
as clear as day
as close as a vise
as cold as any stone
as compared with
as compensation
as contracted for
as destiny wills
as earnest
as every schoolboy knows
as expected
as far as
as far as I am concerned
as far as possible
as far as the eye can see
as far as you can see
as far as you can tell
as far as you desire
as far as you know
as fate wills
as firm as a stone
as fit as a fiddle
as for
as full as a tick
as good as
as good as good can be
as good as they come
as good as they make 'em
as good as your word
as hard as nails
as here defined
as here interpreted
as how
as if
as ill luck would have it
as in duty bound
as is
as is fitting
as is just
as is only fair
as is only right
as is proper
as is right
as is the custom
as is usual
as is your due
as is your right
as is your wont
as it chanced
as it has been said
as it is
as it is said
as it may be
as it may chance
as it may happen
as it may turn out
as it may turn up
as it ought to be
as it pleases yourself
as it seems
as it seems best
as it seems good
as it should be
as it suits yourself
as it was said of old
as it were
as large as life
as lief
as lief as not
as lies in your power
as like as can be
as like as eggs
as like as two peas in a pod
as lissome as a hazel wand
as little as may be
as long as
as long as your arm
as luck wills
as luck would have it
as matters stand
as may be
as may be expected
as merry as the day is long
as much again
as much as
as much as in one lies
as much as lieth in you
as much as to say
as near as makes no difference
as near as no matter
as new
as no one would have predicted
as of
as of a chapter
as of now
as often as can be
as often as not
as often as you like
as often as you wish
as one
as one goes
as one man
as ordered
as our guest
as per usual
as plain as a pikestaff
as plain as plain can be
as promised
as proud as Punch
as proxy for
as red
as regards
as representing
as required
as respects
as safe as houses
as seen
as soon
as soon as
as such
as sure as I live and breathe
as the case may be
as the crow flies
as the day is long
as the fellow says
as the matter stands
as the saying goes
as the saying is
as the sparks fly upward
as the story goes
as the story runs
as the tree falls
as the world goes
as they say
as things are
as things go
as things may fall
as things turn out
as things worked out
as thou wilt
as though
as tightfisted as a kulak
as times go
as to
as transient as the clouds
as usual
as well
as well as
as well as can be said
as who should say
as wide asunder as pole and pole
as yet
as you may have suspected
as you might suppose
as you might think
as you please
as you say
as you sees it
as you think best
ascot tan
ascot tie
ascribe importance to
ascribe to
ascus fruit
aseptic surgery
asexual generation
asexual reproduction
ash barrel
ash bin
ash blond
ash bread
ash bud
ash cake
ash can
ash canker
ash cart
ash chute
ash collector
ash color
ash cone
ash furnace
ash gray
ash heap
ash hopper
ash key
ash leaf
ash oven
ash pile
ash pole
ash pone
ash pumpkin
ash rock
ash spear
ash staff
ash tray
ash tree
ash wednesday
ash wood
ash-bellied
ash-blond
ash-blue
ash-colored
ash-free
ash-gray
ash-gray blister beetle
ash-leaved
ash-leaved maple
asparagus lettuce
asparagus pea
asparagus stone
aspartic acid
aspect ratio
aspen poplar
asphalt cement
asphalt grout
asphalt jungle
asphalt macadam
asphalt mastic
asphalt oil
asphalt paint
asphalt paper
asphalt rock
asphalt tile
asphalt-base
asphalt-base oil
asphodel green
asphyxia neonatorum
asphyxiating gas
aspirating stroke
aspiration pneumonia
aspire after
aspire to
ass between two bundles of hay
ass in lion's skin
ass over elbows
ass parsley
ass-backwards
ass-chewing
ass-ear
ass-head
ass-headed
ass-kisser
ass-kissing
ass-licker
ass-licking
ass-reaming
ass-ship
assai palm
assail the ear
assail the nostrils
assassin bug
assault and battery
assault and robbery
assault boat
assault line
assault sexually
assault the ear
assault transport
assault-troop plane
assay balance
assay bar
assay beam
assay crucible
assay cup
assay flask
assay foot
assay furnace
assay groove
assay mill
assay office
assay oven
assay pound
assay ton
assay-office bar
assembling mark
assembly conveyer
assembly district
assembly hall
assembly language
assembly line
assembly plant
assembly room
assembly routine
assembly-line housing
assembly-line production
assent grudgingly
assent to
assent under protest
assented bond
assert a claim to
assert a right to
assert a title to
assert the contrary
assert under oath
assert yourself
assertiveness training
asses' bridge
assess a tax upon
assessable stock
assessed valuation
assessment company
assessment insurance
assessment on default
assessment work
asset currency
asset-stripping
assets and liabilities
assign lessons
assign to
assign to a place
assignment house
assigned counsel
assigned risk
assigned task
assigned to
assignment of cause
assimilate to
assimilate with
assistant agent
assistant auditor
assistant barber
assistant bookkeeper
assistant buyer
assistant cashier
assistant chemist
assistant chief
assistant clerk
assistant deputy
assistant director
assistant driver
assistant druggist
assistant editor
assistant engineer
assistant examiner
assistant foreman
assistant guard
assistant housekeeper
assistant inspector
assistant janitor
assistant janitress
assistant librarian
assistant manager
assistant professor
associate professor
associate with
associate yourself with
associated statehood
association area
association book
association by contiguity
association by similarity
association by sound
association copy
association fiber
association football
association neuron
association neurosis
association of ideas
association psychology
association test
association time
associative algebra
associative anamnesis
associative neuron
assort with
assume airs
assume command
assume the
assume the guise of
assume the identity of
assume the offensive
assumed bond
assumed name
assumed position
assuming that
assumption of superiority
assure yourself
assured faith
assured of success
assured probity
astable circuit
astasia-abasia
astatic galvanometer
aster daisy
aster family
aster purple
aster ray
aster yellows
asterias swallowtail
asthma herb
asthma paper
asthma weed
asthmatic cigarette
asthmatic wheeze
astigmatic lens
astonishing thing
astr-
astragal Architect
astrakhan cloth
astral body
astral crown
astral influences
astral lamp
astral plane
astral projection
astral ray
astral spirit
astringent bitters
astro hatch
astro station
astro-
astro-inertial guidance
astro-meteorology
astronomical almanac
astronomical calendar
astronomical chart
astronomical clock
astronomical day
astronomical distance
astronomical frame of reference
astronomical longitude
astronomical number
astronomical observatory
astronomical refraction
astronomical telescope
astronomical twilight
astronomical unit
astronomical year
asymmetric carbon atom
asymmetric time
asymmetric transmission
asymmetry potential
at a bargain
at a blow
at a clip
at a declining rate
at a disadvantage
at a discount
at a distance
at a first approximation
at a funeral pace
at a glance
at a good clip
at a great rate
at a halt
at a high price
at a later time
at a loose end
at a loss
at a low ebb
at a low price
at a nonplus
at a premium
at a price
at a profit
at a reduction
at a sacrifice
at a slant
at a snail's pace
at a stand
at a standstill
at a stretch
at a stroke
at a subsequent time
at a tangent
at a turtle's pace
at a venture
at a word
at about
at all
at all accounts
at all costs
at all events
at all hazards
at all points
at all risks
at all times
at an advanced age
at an angle
at an end
at an impasse
at anchor
at another time
at any cost
at any price
at any rate
at any sacrifice
at any straw
at any time
at arm's length
at attention
at auction
at bar
at bat
at bay
at bayonet point
at best
at bottom
at budget prices
at choice
at close hand
at close quarters
at cockcrow
at concert pitch
at cost
at cost price
at cross-purposes
at cross-purposes with
at daggers
at daggers drawn
at dawn
at dawn of day
at death's door
at demand
at discretion
at each other's throat
at ease
at ease and lighthearted
at enmity
at established periods
at every turn
at fault
at feud
at fever pitch
at first
at first blush
at first hand
at first light
at first sight
at first view
at fixed periods
at flank speed
at flood
at full
at full blast
at full drive
at full length
at full pelt
at full speed
at full throttle
at gaze
at grade
at great cost
at great expense
at grips
at gunpoint
at hack
at half cock
at hand
at haphazard
at haven
at hazard
at heart
at heavy cost
at heel
at home
at home in
at home with
at infrequent intervals
at intervals
at irregular intervals
at issue
at it
at just the wrong time
at large
at last
at law
at least
at leisure
at length
at liberty
at loggerheads
at long last
at loose ends
at mid-day
at most
at next hand
at night
at no
at no great distance
at no hand
at no time
at noon
at odd times
at odds
at odds with
at once
at once and on the spot
at one
at one and the same time
at one blow
at one fell swoop
at one jump
at one stroke
at one swoop
at one time
at one with
at opposite extremes
at outcry
at outs
at par
at peace
at piggy-bank prices
at pleasure
at present
at prime cost
at public auction
at public outcry
at random
at reduced rates
at regular intervals
at rest
at right angles
at rock bottom
at sea
at second hand
at short notice
at sight
at sixes and sevens
at small cost
at some other time
at square
at stake
at stated times
at straws
at strife
at sunrise
at swords' points
at that
at that instant
at that moment
at that rate
at that time
at the bar
at the base of
at the beck and call of
at the bottom
at the bottom of
at the bottom of the heap
at the bottom of the scale
at the bound
at the breast
at the bursting point
at the conclusion
at the core
at the crack of dawn
at the dip
at the double
at the drop of a handkerchief
at the drop of a hat
at the eleventh hour
at the end
at the end of your rope
at the end of your tether
at the expense of
at the feet of
at the first blush
at the first go-off
at the first opportunity
at the foot of
at the gun
at the hand
at the hand of
at the hands of
at the head
at the heart of
at the height
at the helm
at the instance of
at the last
at the last extremity
at the last gasp
at the last minute
at the latest
at the least
at the limit
at the mercy of
at the most
at the nadir
at the option of
at the outside
at the peak
at the periphery
at the pinnacle
at the pitch of your breath
at the point of
at the point of a gun
at the point of death
at the point of the bayonet
at the point of the gun
at the point of the sword
at the portals of death
at the present time
at the reins
at the same instant
at the same moment that
at the same time
at the same time as
at the same time that
at the start
at the summit
at the threshold
at the threshold of
at the time of
at the time that
at the top
at the top of the ladder
at the top of the tree
at the top of your bent
at the top of your lungs
at the top of your voice
at the wheel
at the word of command
at the zenith
at this instant
at this juncture
at this moment
at this point
at this time
at this time of day
at times
at twelve-o’clock sharp
at variance
at variance with
at variance with the facts
at various times
at war
at war ’twixt will and will not
at war with
at what price
at what time
at whatever time
at which
at which instant
at which moment
at which time
at wholesale
at will
at work
at worst
at wt
at your beck and call
at your best
at your bidding
at your call
at your command
at your convenience
at your discretion
at your disposal
at your door
at your ease
at your elbow
at your feet
at your fingertips
at your heels
at your last gasp
at your leisure
at your mercy
at your nod
at your orders
at your own discretion
at your own sweet time
at your own sweet will
at your pleasure
at your service
at your side
at your will
at your will and pleasure
at your wit's end
at your wits' end
at-
at-home
at-homeish
at-homeishness
at-homeness
at-large
atamasco lily
ate-
atef crown
atef-crown
atelets sauce
atelo-
ater-
athanasian creed
athel tree
athlete's foot
athlete's heart
athletic coach
athletic equipment
athletic field
athletic heart
athletic socks
athletic support
athletic supporter
athwart the hawse
atka mackerel
atlantic time
atlanto-
atlas folio
atlee gall
atlo-
atlo-odontoid
atloido-occipital
atmo-
atmospheric attenuation
atmospheric boundary layer
atmospheric braking
atmospheric condition
atmospheric electricity
atmospheric engine
atmospheric layer
atmospheric perspective
atmospheric pressure
atmospheric tides
atmospheric visibility
atom blast
atom bomb
atom counter
atom gun
atom model
atom smasher
atom soul
atom war
atom-bomb
atom-chipping
atom-rocket
atom-smashing
atom-tagger
atom-tagging
atom-tracing spectrometer
atomic accelerator
atomic warfare
atomic warhead
atomic weapons
atomic weight
atomic-powered submarine
atone for
atrial fibrillation
atrioventricular block
atrioventricular bundle
atrioventricular node
atro-
atrocious pain
atrocious story
atrophic arthritis
atrophic inflammation
attacca subito
attach a condition
attach a proviso
attach importance to
attach little importance to
attach some weight to
attach to
attach too much importance to
attach yourself to
attache case
attached to
attachment disk
attachment plug
attack bomber
attack in force
attack like lightning
attack of illness
attack of nerves
attack plane
attack squadron
attack time
attack transport
attain fulfillment
attain majority
attain mastery of
attain to
attain your objective
attar of roses
attempt the impossible
attempt to
attend Communion
attend Mass
attend classes
attend closely to
attend on
attend rites
attend school
attend to
attend to business
attend to orders
attend to your work
attend upon
attendance allowance
attendance centre
attendance officer
attendant godling
attendant spirit
attended by
attended with danger
attending physician
attention signal
attention span
attention to detail
attention to fact
attention-getting
attenuation charge
attested copy
attic order
attic room
attic story
attitude art
attitude-control rocket
atto-
attorney general
attorney generals
attorney in fact
attorney-at-law
attorney-generalship
attorney-in-fact
attorneys general
attorneys-at-law
attorneys-in-fact
attract attention
attract notice
attract your interest
attracted to
attracted-disk
attraction cone
attraction sphere
attractive nuisance
attributable to
attribute to
attributed to
atypical pneumonia
au beurre fondu
au beurre noire
au beurre roux
au bleu
au contraire
au courant
au fait
au fond
au fromage
au gras
au gratin
au jus
au kirsch
au lait
au maigre
au naturel
au pair
au pair girl
au pied de la lettre
au reste
au revoir
au vert pre
au vin blanc
au vol
aubergine purple
auburn-haired
auction agent
auction block
auction bridge
auction euchre
auction hearts
auction off
auction pinochle
auction pitch
auction pool
auction room
auction sale
aucuba green
aucuba mosaic
audibility meter
audience chamber
audience court
audience room
audience success
audience-proof
audio amplifier
audio channel
audio detector
audio devices
audio distortion
audio frequency
audio monitor
audio signal
audio sound system
audio transmitter
audio truck
audio-
audio-IF oscillator
audio-frequency
audio-frequency amplification
audio-frequency amplifier
audio-frequency circuit
audio-frequency detector
audio-frequency oscillator
audio-frequency tube
audio-visual
audio-visual aids
audio-visually
audit ale
audit book
audit certificate
audit date
audit house
audit office
audit room
auditor-general
auditors-general
auditory amnesia
auditory aphasia
auditory apparatus
auditory canal
auditory effect
auditory impairment
auditory meatus
auditory nerve
auditory organ
auditory ossicles
auditory phenomenon
auditory phonetics
auditory range
auditory sense
auditory stimulus
auditory tube
auditory vesicle
auf Wiedersehen
auf wiedersehen
augen-gabbro
augen-gneiss
auger bit
auger box
auger crank
auger drill
auger feed
auger handle
auger hole
auger lathe
auger machine
auger press
auger shell
auger stem
auger tongue
auger worm
auger-nose
auger-type
augite-porphyrite
augite-porphyr
augmented interval
augmented sixth
augmented triad
augur well
auld lang syne
auld-farran
auld-farrand
auld-farrant
auld-warld
auln-
aunc-
auntie man
aur-
aural examination
aural sense
aurea mediocritas
aurene glass
aureolin yellow
auri-iodide
auricula purple
auricular appendage
auricular confession
auricular fibrillation
auriculo-infraorbital
auriculo-occipital
auro-
aurora australis
aurora borealis
aurora glory
aurora orange
aurora particle
aurora particle counter
aurora particles
aurora polaris
aurora sauce
aurora trout
aurora yellow
auspiciar melioris aevi
aussage test
austenitic stainless steel
austerity program
aust-
australia day
australian ballot
australian terrier
aut Caesar
aut nihil
aut-
auteur theory
authentic cadence
authentic mode
author catalog
author catalogue
author mark
author number
author's alteration
author's copy
author's proof
author-created
author-entry
author-publisher
author-ridden
authoritative in
authorities, the
authority on money and banking
authorized absence
authorized capital
authorized capital stock
authorized version
autistic distortion
autistic thinking
auto antenna
auto carrier
auto court
auto laundry
auto lift
auto lorry
auto mechanic
auto mechanics
auto part
auto parts
auto pilot
auto polish
auto radio
auto sacramental
auto show
auto-
auto-alarm
auto-audible
auto-da-f
auto-da-fe
auto-dafe
auto-infection
auto-inoculability
auto-inoculable
auto-inoculation
auto-objective
auto-observation
auto-omnibus
auto-ophthalmoscope
auto-ophthalmoscopy
auto-oxidation
auto-oxidize
auto-rickshaw
auto-rifle
autoconvection gradient
autodyne reception
autogenous vaccine
autographic recorder
autoignition point
autokinetic effect
autokinetic illusion
autokinetic phenomenon
autolysate-precipitate
automanual system
automated factory
automated satellite
automatic analyzer
automatic analyzers
automatic block signal
automatic boost control
automatic choke
automatic control
automatic control engineering
automatic control system
automatic data processing
automatic detector
automatic detectors
automatic device
automatic devices
automatic dishwasher
automatic drill
automatic drive
automatic electronic navigation
automatic electronics
automatic engineering
automatic exchange
automatic factory
automatic feed mechanism
automatic frequency control
automatic gain control
automatic guidance
automatic gun
automatic gun director
automatic heater
automatic indicating scale
automatic indicator
automatic indicators
automatic iron
automatic laundry
automatic machine
automatic piano
automatic pilot
automatic pinspotter
automatic pistol
automatic plotter
automatic premium loan
automatic printer
automatic range finder
automatic reaction
automatic response
automatic rifle
automatic screw machine
automatic sight
automatic sprinkler
automatic stability
automatic stop
automatic switch
automatic technician
automatic technology
automatic telegraph
automatic telephone
automatic telephone exchange
automatic telephone system
automatic tracking
automatic transmission
automatic trip
automatic typesetting
automatic washer
automatic washer-dryer
automatic writing
automatic-weapons fire
automation technology
automobile board
automobile insurance
automobile liability insurance
automobile race
automobile racing
automobile registration tax
automobile showroom
automobile sled
automorphic-granular
automotive engineer
automotive engineering
autonomic epilepsy
autonomic nervous system
autonomic reaction
autos sacramentales
autoserum therapy
autotransformer starter
autotrophic organism
autotuberculin test
autourine test
autoxidation-reduction
autre chose
autre vie
autres temps autres murs
autumn bellflower
autumn blond
autumn catchfly
autumn crocus
autumn green
autumn leaf
autumn mange
autumn oak
autumn of your days
autumn snowflake
autumn squill
autumn violet
autumn willow
autumn-brown
autumn-spring
autumnal equinox
autumnal point
aux abois
aux aguets
aux armes
aux fines herbes
auxiliary boat
auxiliary equation
auxiliary language
auxiliary note
auxiliary power unit
auxiliary rafter
auxiliary tone
auxiliary verb
av-
avail nothing
avail yourself of
available funds
available gain
available light
available means
available resources
avalanche conduction
avalanche lily
avalanche wind
avant-
avant-courier
avant-garde
avant-garde jazz
avant-gardism
avant-gardist
avant-propos
avarice on stilts and masked
ave maria
avec plaisir
avellan cross
avenging spirit
aver-
average adjuster
average book
average clause
average deviation
average down
average life
average man
average out
average person
average revenue
average run
average stater
average up
average-life period
averse to
aversion therapy
avert the eyes
avian diphtheria
avian leukosis
avian pneumoencephalitis
avian pox
avian pseudoplaque
avian spirochetosis
aviation badge
aviation beacon
aviation beacons
aviation cadet
aviation field
aviation gasoline
aviation instrument
aviation insurance
aviation medicine
aviation radar
aviation radio
aviation technology
aviation wings
aviator glasses
avignon berry
avion-canon
avocado fat
avocado green
avocado oil
avocado pear
avocado weevil
avoid both Scylla and Charybdis
avoid excess
avoid extremes
avoid the limelight
avoid your gaze
avoidance mechanism
avoidance play
avoidance reaction
avoiding reaction
awl-shaped
awn grass
awned wheat grass
awning cloth
awning deck
awning window
awnless brome grass
ax eye
ax grinder
ax handle
ax helve
ax maker
ax sheath
ax wedge
ax, the
ax-adz
ax-shaped
axe-breaker
axial flow compressor
axial motion
axial pencil
axial skeleton
axial-flow
axial-flow turbine
axial-flow turbojet
axial-flow unit
axial-type engine
axiological ethics
axiom of choice
axiom of countability
axis cylinder
axis cylinder process
axis deer
axis of abscissas
axis of ordinates
axis of revolution
axis of symmetry
axle adjuster
axle arm
axle assembler
axle bar
axle bearing
axle bender
axle bolt
axle box
axle bush
axle cap
axle case
axle centerer
axle cutter
axle dresser
axle ender
axle filer
axle finisher
axle forger
axle grease
axle grinder
axle guard
axle guide
axle hammer
axle hammerman
axle hardener
axle hook
axle journal
axle lagger
axle lathe
axle load
axle oiler
axle packer
axle pin
axle pinner
axle press
axle rougher
axle saddle
axle seat
axle setter
axle shaft
axle sleeve
axle slotter
axle spindle
axle stool
axle straightener
axle tooth
axle turner
axle wad
axle worker
axle-bending
axle-boring
axle-centering
axle-forging
axle-tooth
axle-tree
axletree arm
axonometric projection
ay-
ay-green
aye-aye
aye-ceaseless
aye-during
aye-dwelling
aye-lasting
aye-living
aye-remaining
aye-renewed
aye-restless
aye-rolling
aye-running
aye-sought
aye-troubled
aye-turning
aye-varied
aye-welcome
ayenbite of inwit
ayer-ayer
ayr stone
ayurvedic medicine
az-
aza-
azido group
azido radical
azimuth bar
azimuth circle
azimuth co-ordinate
azimuth compass
azimuth dial
azimuth distance
azimuth error
azimuthal equidistant projection
azimuthal projection
azimuthal quantum number
azine dye
azo blue
azo dye
azo group
azo radical
azo-
azo-orange
azo-orchil
azo-orseilline
azoic dye
azomethine group
azon bomb
azonal soil
azonium base
azonium salt
azoxy group
azure-blazoned
azure-blue
azure-canopied
azure-circled
azure-colored
azure-domed
azure-eyed
azure-footed
azure-inlaid
azure-mantled
azure-plumed
azure-tinted
azure-vaulted
azure-veined
azurite blue
azygo-
b Physics
b and b
b battery
b complex
b-horizon
b/d Book-keeping
baal kore
baal marriage
baba au rhum
baba-koto
babas au rhum
babassu oil
babbit-metal
babbitt metal
babbitting jig
babcock test
babe in the wood
babe in the woods
babe-faced
babies' breath
baby act
baby beef
baby bird
baby blue
baby blue-eyes
baby blues
baby bond
baby bonus
baby boom
back debts
back dive
back door
back down
back draft
back eccentric
back electromotive force
back end
back entry
back fat
back file
back fillet
back focus
back formation
back four
back full
back gear
back green
back hair
back head
back home
back judge
back letter
back line
back liner
back lining
back link
back list
back lot
back maker
back marker
back matter
back molding
back number
back o’ Bourke
back o’ beyond
back of
back of beyond
back off
back one-third
back order
back out
back out of
back overman
back pack
back page
back painting
back passage
back paternoster
back payments
back pitch
back plastering
back play
back pressure
back projection
back rest
back road
back rod
back room
back run
back sail
back saw
back scatter
back scene
back score
back scratcher
back scratching
back seat
back shaft
back shop
back shutter
back side
back sinew
back slang
back staff
back stairs
back step
back stop
back straight
back strapper
back stream
back street
back stretch
back swath
back swimmer
back talk
back tendon
back the wrong horse
back to back
back track
back trail
back turn
back two-thirds
back up
back vent
back venting
back-hander
back-lash
back-leaning
back-light
back-lighted
back-lighting
back-list
back-lit
back-log
back-looking
back-lying
back-making
back-number
back-paddle
back-paint
back-palm
back-pedal
back-pedaled
back-pedaling
back-pedalled
back-pedalling
back-piece
back-plaster
back-plate
back-pressure arm-lift method
back-pressure valve
back-pulling
back-putty
back-racket
back-raking
back-scratcher
back-scratching
back-seat driver
back-set
back-set bed
back-settler
back-sey
back-slang
back-slanging
back-slapping
back-spiker
back-staff
back-starting
back-stepping
back-stitch
back-stope
back-strapped
back-streeter
back-stroke
back-surging
back-sword
back-talk
back-tan
back-titrate
back-titration
back-to-back
back-to-back switching circuit
back-to-front
back-trailer
back-trip
back-up
back-up light
back-ward
back-way
backache brake
backache root
backbreaking work
backdoor trots
backed-off
backer-up
backers-up
backflap hinge
backflow valve
background detail
background music
background projection
background radiation
backhand rent
backing angle
backing bar
backing jointer
backing light
backing metal
backing off
backing out
backing paper
backing store
backing strip
backing striplight
backing up
backing wind
backing-off
backing-off lathe
backpacking tent
backpedaling brake
backseat driver
backspace key
backstairs influence
backstay stools
backup light
backup man
backward and forward
backward blessing
backward change
backward deviation
backward motion
backward step
backwards and forwards
backwater valve
bacon and eggs
bacon beetle
bacon hog
bacon-and-eggs
bacon-lettuce-tomato sandwich
bacteri-
bacteria bed
bacterial blight
bacterial canker
bacterial disease
bacterial plaque
bacterial therapy
bacterial vaccine
bacterial wilt
bacterio-
bacterio-opsonic
bacterio-opsonin
bacteriological warfare
baculo-metry
bad actor
bad behavior
bad blood
bad books
bad boy
bad break
bad breath
bad case
bad cess
bad character
bad check
bad child
bad condition
bad conduct discharge
bad copy
bad debt
bad debts
bad deed
bad dream
bad ear
bad egg
bad example
bad eyesight
bad fairy
bad faith
bad feeling
bad for
bad fortune
bad graces
bad grammar
bad guy
bad habit
bad hand
bad handwriting
bad hat
bad humor
bad influence
bad job
bad language
bad light
bad likeness
bad liquor
bad lot
bad luck
bad man
bad manners
bad money
bad move
bad name
bad news
bad notices
bad odor
bad off
bad people
bad peri
bad person
bad poet
bad poetry
bad policy
bad press
bad quality or effect
bad report
bad reputation
bad repute
bad smell
bad spelling
bad spirit
bad taste
bad temper
bad time
bad times
bad turn
bad will
bad woman
bad writing
bad-headed
bad-hearted
bad-humored
bad-looking
bad-minded
bad-mouth
bad-order freight
bad-smelling
bad-tempered
badge of infamy
badge of office
badger baiting
badger bird
badger dog
badger game
badger plane
badger skunk
badger-legged
badging hook
badly off
badminton court
badminton cup
bae-
baeberry bark
baffle board
baffle description
baffle gate
baffle painting
baffle plate
baffling problem
baffling wind
bag and baggage
bag bearer
bag beater
bag boom
bag bundler
bag cap
bag clasp
bag cleaner
bag cutter
bag dryer
bag feeder
bag filler
bag filter
bag fitter
bag folder
bag fox
bag frame
bag framer
bag holder
bag house
bag loader
bag machinist
bag maker
bag marker
bag mender
bag net
bag of bones
bag of tricks
bag of wind
bag packer
bag picker
bag printer
bag rack
bag repairer
bag riveter
bag sewer
bag sleeve
bag sorter
bag stacker
bag stitcher
bag table
bag twine
bag work
bag worker
bag wrinkle
bag-bearing
bag-bedded
bag-bundling
bag-cheeked
bag-closing
bag-cutting
bag-filling
bag-flower
bag-folding
bag-printing
bag-reef
bag-sewing
bag-shaped
bag-wig
baggage agent
baggage car
baggage cart
baggage check
baggage clerk
baggage inspector
baggage man
baggage porter
baggage rack
baggage room
baggage train
baggage van
baggage wagon
baggage-smasher
bags I
bagworm moths
baib grass
bail bond
bail out
bail up
bail you out
bail-dock
bail-out
bailer shell
bailey bridge
bain-marie
bains-marie
bait and switch
bait bug
bait casting
bait set
bait the hook
baited trap
bake cart
bake kettle
bake sale
bake-meat
bake-off
baked Alaska
baked beans
baked goods
baked meat
baked sheep's head
balance plane
balance rail
balance reef
balance ring
balance rope
balance rudder
balance rynd
balance screw
balance sheet
balance spring
balance staff
balance step
balance the books
balance valve
balance watch
balance weight
balance wheel
balanced diet
balanced fund
balanced line
balanced personality
balanced rudder
balanced sentence
balanced step
balanced ticket
balanced valve
balancer set
balancing band
balancing coil
balancing condenser
balancing flap
balancing link
balancing ring
balancing set
balancing ways
balanitis gangrenosa
balanophore wax
balas ruby
balata belt duck
balata gum
bald as a coot
bald as an egg
bald coot
bald cypress
bald eagle
bald fact
bald-faced
bald-faced hornet
bald-headed
bald-headedness
bald-pated
bald-patedness
balder-brae
balder-herb
bale band
bale breaker
bale buckle
bale conveyor
bale feeder
bale goods
bale hook
bale jumper
bale marker
bale opener
bale out
bale stick
bale stitcher
bale strap
bale tie
bale tier
bale-fire
baleen whale
baling machine
balk at
balk day
balk line
balk-line game
balky horse
ball and chain
ball and ring
ball bearing
ball boy
ball breaker
ball cactus
ball cartridge
ball caster
ball clay
ball club
ball cock
ball fern
ball foot
ball game
ball gentle
ball grinder
ball gudgeon
ball handle
ball indicator
ball ironstone
ball joint
ball lever
ball lightning
ball mill
ball moss
ball mustard
ball of fire
ball of wax
ball park
ball peen
ball peen hammer
ball pen
ball point pen
ball python
ball reamer
ball rest
ball rose
ball sage
ball screw
ball seater
ball smut
ball snake
ball stitch
ball tap
ball the jack
ball thistle
ball top
ball turret
ball up
ball valve
ball-and-claw foot
ball-and-socket joint
ball-bearing
ball-carrier
ball-flower
ball-hooter
ball-jasper
ball-park
ball-peen hammer
ball-planting
ball-point
ball-point pen
ball-shaped
ball-thrombus
ball-turret gun
ballad horn
ballad maker
ballad making
ballad measure
ballad meter
ballad metre
ballad opera
ballad poetry
ballad reciter
ballad rhyme
ballad singer
ballad singing
ballad stanza
ballad style
ballad writer
ballast brakesman
ballast car
ballast cleaner
ballast crusher
ballast engine
ballast fin
ballast ganger
ballast heaver
ballast hole
ballast inspector
ballast line
ballast loader
ballast master
ballast plant
ballast port
ballast pump
ballast regulator
ballast spreader
ballast stone
ballast tank
ballast tipper
ballast track
ballast trimmer
ballast tube
ballast unloader
ballast-cleaning
ballast-crushing
ballast-loading
balled up
balled-up
ballet blanc
ballet d'action
ballet dancer
ballet dancing
ballet divertissement
ballet girl
ballet master
ballet mistress
ballet music
ballet shoes
ballet skirt
ballet slipper
ballet slippers
ballet suite
ballets blancs
balli buntl
ballibundl hat
balling furnace
balling gun
balling head
balling iron
ballistic camera
ballistic capsule
ballistic galvanometer
ballistic missile
ballistic pendulum
ballistic trajectory
ballistic wind
ballon d'essai
ballon-sonde
balloonet ceiling
ballons d'essai
balloon ball
balloon barrage
balloon bed
balloon chuck
balloon clock
balloon cloth
balloon fabric
balloon feather
balloon foresail
balloon frame
balloon framing
balloon in
balloon jib
balloon sail
balloon seat
balloon sickness
balloon sleeve
balloon tire
balloon trainshed
balloon tyre
balsam herb
balsam hickory
balsam of Mecca
balsam of Peru
balsam of fir
balsam of peru
balsam of tolu
balsam pear
balsam poplar
balsam shrub
balsam spruce
balsam spurge
balsam tree
balsam vine
balsam-tree family
balto-slavic
baluster column
baluster measure
baluster shaft
baluster stem
bambara butter
bamboo brier
bamboo curtain
bamboo fern
bamboo fish
bamboo grass
bamboo money
bamboo oyster
bamboo palm
bamboo partridge
bamboo rat
bamboo reed
bamboo screen
bamboo shade
bamboo shoot
bamboo shoots
bamboo sugar
bamboo turning
bamboo vine
bamboo ware
bambui butter
bambuk butter
banana bean
banana belt
banana bird
banana boa
banana eater
banana family
banana fish
banana flour
banana fly
banana freckle
banana liquid
banana moth
banana oil
banana quit
banana republic
banana root borer
banana seat
banana shrub
banana solution
banana split
banana water lily
banana weevil
banana wilt
band bracelet
band brake
band chain
band concert
band conveyer
band course
band creaser
band cutter
band driver
band filter
band iron
band leader
band major
band maker
band mill
band plant
band pulley
band resaw
band saw
band screen
band shell
band spectrum
band steel
band theory of solids
band together
band wagon
band wheel
band-aid
band-gala
band-pass filter
band-saw file
bank jug
bank laborer
bank ledger
bank letter
bank loan
bank manager
bank martin
bank messenger
bank molder
bank money
bank night
bank note
bank oddman
bank of issue
bank officer
bank on
bank overman
bank paper
bank post bill
bank president
bank ranger
bank rate
bank receipt
bank receiver
bank reference
bank repairer
bank report
bank reserve
bank return
bank robber
bank robbery
bank roll
bank run
bank shot
bank sill
bank smack
bank statement
bank stock
bank superintendent
bank swallow
bank teller
bank tender
bank the fire
bank thistle
bank up
bank upon
bank vole
bank walker
bank water
bank weigher
bank winding
bank woman
bank-and-turn indicator
bank-bill
bank-book
bank-full
bank-high
bank-note
bank-riding
bank-side
bank-sided
bank-wound
banker's acceptance
banker's bill
banker's card
banker's check
banker's order
banker-mark
banker-out
banking account
banking doctrine
banking executive
banking file
banking indicator
banking pin
banking principle
banking screw
banking stud
banking wax
banking-house
banko ware
bankrupt in
bankrupt law
banksia rose
bankul nut
banner bearer
banner cloth
banner cloud
banner cry
banner head
banner headline
banner line
banner name
banner painter
banner plant
banner pole
bar money
bar movement
bar opal
bar out
bar parlor
bar pin
bar plate
bar point
bar rigging
bar roller
bar screen
bar share
bar shoe
bar shot
bar sight
bar sinister
bar soap
bar spade
bar stall
bar stool
bar tack
bar the gate
bar tin
bar tracery
bar winding
bar-
bar-and-grill
bar-goose
bar-headed goose
bar-share plow
bar-stock lathe
bar-tailed
bar-wound
bara-picklet
barb bolt
barb the dart
barba amarilla
barba amarillas
barbaric splendor
barbary ape
barbecue sauce
barbecued beef
barbecued spareribs
barbed cat
barbed tributary
barbed wire
barbed-wire entanglement
barbed-wire grass
bare-clawed
bare-faced
bare-fingered
bare-gnawn
bare-handed
bare-headed
bare-kneed
bare-legged
bare-necked
bare-picked
bare-ribbed
bare-skinned
bare-skulled
bare-throated
bare-toed
bare-walled
bare-worn
bareback rider
bareboat charter
bareface tenon
barefaced lie
barefaced tenon
barefoot tea
barely audible
barely have a chance
barely see
barely sufficient
barely touching
bargain and sale
bargain away
bargain basement
bargain counter
bargain day
bargain driver
bargain for
bargain hunter
bargain on
bargain penny
bargain price
bargain prices
bargain sale
bargain table
bargain work
bargain-basement
bargain-counter
bargain-hunting
bargained for
bargaining session
bargaining unit
 barge boom
 barge canal
 barge couple
 barge course
 barge in
 barge into
 barge rig
 barge spike
 barge stone
 barge-board
 barge-couple
 barges-course
 barge-laden
 barge-rigged
 barge-stone
 baritone clef
 barium bromate
 barium carbonate
 barium chloride
 barium chromate
 barium chrome
 barium dioxide
 barium enema
 barium hydrate
 barium hydroxide
 barium meal
 barium monoxide
 barium nitrate
 barium oxide
 barium peroxide
 barium protoxide
 barium stearate
 barium sulfate
 barium sulfide
 barium sulphate
 barium sulphide
 barium thiosulfate
 barium yellow
 bark at
 bark at the moon
 bark beetle
 bark blazer
 bark canker
 bark chopper
 bark cloth
 bark conveyer
 bark crusher
bark disease
bark dryer
bark extract
bark feeder
bark gouge
bark grafting
bark grinder
bark house
bark liquor
bark louse
bark maple
bark mark
bark mill
bark parenchyma
bark picker
bark pit
bark scaler
bark shredder
bark spud
bark spudder
bark stripper
bark tree
bark up the wrong tree
bark-bared
bark-cutting
bark-formed
bark-galled
bark-galling
bark-grinding
bark-shredding
bark-tanned
barkhausen effect
barking bill
barking deer
barking drum
barking frog
barking iron
barley broth
barley cake
barley candy
barley carrier
barley cleaner
barley clipper
barley coal
barley crusher
barley flour
barley fork
barley grass
barnacle-eater
barney-clapper
barns-breaking
barnyard fowl
barnyard golf
barnyard grass
barnyard millet
baro-
barograph camera
barometer gauge
barometer paper
barometric error
barometric gradient
barometric pressure
barometric switch
barometric wind rose
baron bailie
baron court
baron et femme
baron of beef
baroque formalism
baroque formalist
baroque organ
barrack emperors
barrack roof
barracks bag
barracks lawyer
barrage balloon
barrage receiver
barrage reception
barrage rocket
barred owl
barred spiral
barred spiral galaxy
barred spiral nebula
barrel amalgamation
barrel arch
barrel bolt
barrel bulk
barrel cactus
barrel chair
barrel chest
barrel contractor
barrel copper
barrel cuff
barrel distortion
barrel drain
barrel driver
barrel engine
barrel fish
barrel gentian
barrel header
barrel helm
barrel hoop
barrel house
barrel knot
barrel maker
barrel of money
barrel organ
barrel packer
barrel palm
barrel pen
barrel pier
barrel process
barrel quartz
barrel repairer
barrel roll
barrel roof
barrel saw
barrel scale
barrel sewer
barrel shackle
barrel stave
barrel tile
barrel tree
barrel vault
barrel-back chair
barrel-bellied
barrel-boring
barrel-branding
barrel-chested
barrel-driving
barrel-heading
barrel-packing
barrel-roll
barrel-shaped
barrel-vaulted
barren brome grass
barren land
barrer-off
barrette file
barrier beach
barrier berg
barrier cream
barrier gate
barrier ice
barrier of secrecy
barrier pillar
barrier reef
barrier tactics
barrier treaty
barring out
barrio-dwellers
barrister-at-law
barrow boy
barrow tram
barrow truck
barrow-boy
barrow-man
barrow-men
barry-bendy
barry-nebuly
barry-pily
barry-wavy
bars gemels
barter economy
barter unit
barycentric coordinate system
baryon number
baryta feldspar
baryta paper
baryta water
baryta white
baryta yellow
baryto-
bas bleu
bas bleus
bas mitzvah
bas-fond
bas-relief
basal anaesthesia
basal body
basal conglomerate
basal ganglia
basal ganglion
basal metabolic rate
basal metabolism
basal ridge
basal-cell carcinoma
basal-nerved
basalt glass
basalt quarrier
basalt-porphyr
bascine case
bascule bridge
bascule escapement
base angle
base animals
base bend
base block
base box
base broom
base bullion
base burner
base camp
base cinnamon
base circle
base clef
base coin
base component
base course
base current
base depot
base estate
base exchange
base fee
base fuse
base hit
base horehound
base hospital
base knob
base level
base line
base load
base map
base metal
base metals
base net
base of operations
base oil
base on
base on balls
base pay
base period
base piece
base plate
base plug
base point
base price
base rate
base resistance
base right
base ring
base rocker
base rocket
base runner
base running
base salary
base signal current
base signal voltage
base speed
base stone
base tenant
base tree
base vervain
base wage
base wallah
base-ball
base-begged
base-begot
base-born
base-burner
base-court
base-forming
base-level plain
base-mettled
base-minded
base-mindedly
base-mindedness
base-souled
base-spirited
base-spiritedness
base-witted
baseball bat
baseball cap
baseball field
baseball glove
baseball mitt
baseball rounders
baseball season
based on
basedow's disease
basement complex
basement house
basement membrane
bases on balls
bash up
bashi-bazouk
bashi-bazoukery
basi-
basic English
basic airman
basic anhydride
basic conductor physics
basic dichromate
basic dress
basic dye
basic education
basic english
basic facts
basic fuchsin
basic fuchsine
basic iron
basic lead carbonate
basic load
basic magenta
basic plumage
basic process
basic proposition
basic rate
basic salary
basic slag
basic substance weight
basic trainer
basic training
basic wage
basic weight
basic-lined
basil balm
basil mint
basil penny royal
basil thyme
basilar membrane
basilic vein
basin range
basing point
basing tariff
basis bundle
basis for belief
basis rate
basis weight
bask in
bask in the sun
bask in the sunshine
basket ash
basket beagle
basket bearer
basket boat
bass fly
bass guitar
bass hogfish
bass horn
bass killy
bass oboe
bass passage
bass player
bass reflex
bass response
bass saxophone
bass staff
bass sunfish
bass viol
bass violinist
bass-bar
bass-horn
bass-relief
bass-viol
bass-wood
basse danse
basse-taille
basses danses
basset griffon
basset horn
basset hound
basset oboe
basset table
basset-horn
bassi cantanti
bassi profundi
bassi-rilievi
basso buffo
basso cantante
basso continuo
basso da camera
basso ostinato
basso profundo
basso rilievo
basso-relievo
basso-relievos
basso-rilievo
bassra locust
bast cell
bast fiber
bast palm
bast parenchyma
bast ray
bast tree
bast vessel
bastard acacia
bastard agrimony
bastard alkanet
bastard aloe
bastard amber
bastard apple
bastard ash
bastard ashlar
bastard asphodel
bastard baldmoney
bastard balm
bastard bar
bastard blue gum
bastard box
bastard bryony
bastard bullet tree
bastard canna
bastard cedar
bastard cherry
bastard chestnut
bastard chickweed
bastard child
bastard chinaroot
bastard cinnamon
bastard clover
bastard cork tree
bastard cress
bastard culverin
bastard cusk
bastard daisy
bastard dittany
bastard dogwood
bastard dory
bastard eigne
bastard elder
bastard elm
bastard fallow
bastard feverfew
bastard fig
bastard file
bastard gemsbok
bastard gentian
bastard gidgee
bastard goosefoot
bastard grain
bastard granite
bastard gromwell
bastard gunter
bastard halibut
bastard hartebeest
bastard hawkweed
bastard hellbore
bastard hemp
bastard horehound
bastard hyssop
bastard indigo
bastard ipecac
bastard ironwood
bastard jarrah
bastard jasmine
bastard jute
bastard lignum vitae
bastard locust
bastard locust tree
bastard lupine
bastard mahogany
bastard manchineel
bastard margaret
bastard marjoram
bastard measles
bastard mouse-ear
bastard myall
bastard nettle
bastard nightshade
bastard olive
bastard parsley
bastard pellitory
bastard pennyroyal
bastard pimpernel
bastard pine
bastard plantain
bastard plover
bastard pointing
bastard quartz
bastard quince
bastard rhubarb
bastard rocket
bastard rosewood
bastard saffron
bastard sago palm
bastard sandalwood
bastard schooner
bastard sea grape
bastard senna
bastard sensitive plant
bastard service tree
bastard snapper
bastard speedwell
bastard spikenard
bastard spruce
bastard strangles
bastard sugar
bastard sycamore
bastard tamarind
bastard teak
bastard thread
bastard title
bastard toadflax
bastard tree
bastard trefoil
bastard trout
bastard trumpeter
bastard tuck pointing
bastard turtle
bastard type
bastard vervain
bastard vetchling
bastard weakfish
bastard windflower
bastard wing
bastard wormwood
bastard yellowlegs
bastard yellowwood
bastard-cut
bastard-saw
bastard-sawed
bastard-sawing
bastard-sawn
bastel house
bastel-house
bastille day
bastille house
bastle house
bat about
bat around
bat bolt
bat bomb
bat boy
bat dance
bat ear
bat in
bat mitzvah
bat money
bat of an eye
bat out
bat out of hell
bat printing
bat ray
bat stingray
bat the breeze
bat the eyes
bat the eyes at
bat tick
bat tree
bat-eared
bat-fowl
bat-minded
bat-mindedness
bat-mule
batch loaf
batch processing
batch together
batcher plant
bateau bridge
bateau neck
bateau neckline
bated breath
bateleur eagle
batement light
bath asparagus
bath brick
bath brush
bath bun
bath cabinet
bath chair
bath cube
bath mat
bath mitzvah
bath salts
bath slipper
bath soap
bath sponge
bath towel
bath-
bath-loving
bathe with light
bathed in sweat
bathed in tears
bathed with light
bathing beach
bathing beauty
bathing belle
bathing cap
bathing costume
bathing girl
bathing gown
bathing hut
bathing machine
bathing place
bathing sandal
bathing shoe
bathing suit
bathing trunks
bathing-machine
batho-
bathroom tissue
bathtub gin
bathy-
bathyal zone
batiator root
batracho-
bats in one's belfry
bats in the belfry
bats-in-the-belfry
batswing burner
batswing coral
battalia pie
batten door
batten down
batten down the hatches
batten ends
batten on
batten plate
batten pocket
batten upon
batter board
batter brace
batter bread
batter pile
batter post
batter pudding
batter rule
batter stick
batter-out
battered baby
battered child syndrome
battering ram
battering train
battering-ram
battery acid
battery cable
battery case
battery cell
battery charger
battery chart
battery eliminator
battery jar
battery lamp
battery maker
battery mud
battery radio
battery supply voltage
battery tester
battery wagon
battery water
battery-charging
battery-powered
battery-testing
batting average
batting block
batting eye
batting hammer
batting order
battle array
battle brand
battle call
battle clasp
battle club
battle cruiser
battle cry
battle din
battle fatigue
battle flag
battle fleet
battle front
battle gaff
battle game
battle group
battle horn
battle hymn
battle it out
battle jacket
battle lantern
battle line
battle piece
battle place
battle plane
battle police
battle position
battle quoit
battle range
battle royal
battle shield
battle shout
battle sight
battle site
battle smoke
battle song
battle star
battle station
battle twig
battle wagon
battle word
battle-ax
battle-axe
battle-fallen
battle-scarred
battle-slain
battle-spent
battle-writhe
battled embattled
battledore and shuttlecock
battleship gray
batule board
batwing burner
batwing chair
batwing sleeve
baulk line
baum marten
bauple nut
bausen-faced
bawdy house
bawl out
bawling-out
bawsay fern
bay antler
bay at the moon
bay bar
bay bean
bay bird
bay camphor
bay cat
bay cedar
bay coot
bay floe
bay goose
bay grass
bay holly
bay hops
bay ice
bay lambs
bay laurel
bay lavender
bay leaf
bay lynx
bay mackerel
bay mahogany
bay mare
bay myrtle
bay oak
bay oil
bay plum
bay point
bay poplar
bay rum
bay rum tree
bay salt
bay snipe
bay stall
bay stater
bay stone
bay tree
bay willow
bay winders
bay window
bay yarn
bay-bay
bay-breasted
bay-cedar family
bay-colored
bay-head bar
bay-leaf willow
bay-rum tree
bay-salt
bay-top palmetto
bay-window
bay-winged
bayacura root
bayamo winds
bayberry bark
bayberry candle
bayberry family
bayberry oil
bayberry wax
bayeux tapestry
bayonet base
bayonet clasp
bayonet joint
bayonet leg
bayonet legs
bayonet plant
bayonet socket
bayou bass
bayou lake
bazooka rocket
bc soil
bcg vaccine
bchamel sauce
bd ft
be Greek to
be OK
be a bargain
be a bear for
be a cold fish
be a coward
be a dark horse
be a deal
be a deputy
be a dupe
be a fast study
be a father to
be a feature of
be a flop
be a gas
be a gasbag
be a gasser
be a go
be a good investment
be a good sport
be a good trencherman
be a graphic artist
be a hit
be a law to
be a law unto yourself
be a logical impossibility
be a man
be a man of heart
be a man of sentiment
be a member
be a mother to
be a must for
be a paradox
be a parasite
be a party to
be a patsy
be a pawn of
be a plaything of
be a prey to anxiety
be a prey to your feelings
be a printmaker
be a quality of
be a reproach to
be a sidelines
be a sign of
be a slow study
be a spectator
be a stretch of the imagination
be a success
be a sucker
be a thing of the past
be a timeserver
be a trait of
be a waste of time
be a windbag
be a yes man
be able
be about
be about to
be about to be born
be above
be absent
be absentminded
be absorbed in
be abstracted
be accepted
be accepted for
be accountable for
be accurate
be acquainted with
be active
be added
be admitted
be admitted to the bar
be advised by
be affected
be affected with
be afraid
be after
be against
be agin
be agitated
be agreeable
be agreeable to
be ahead
be ahead of time
be airborne
be alert
be alive
be alive with
be all ears
be all eyes
be all heart
be all one to
be all over
be all over with
be all thumbs
be all up with
be allowed
be along
be amazed
be ambitious
be an
be an accessory to
be an easy mark
be an icicle
be an imperative for
be an impossibility
be an incubus to
be an indication of
be angry
be animate
be annihilated
be answerable for
be antipathetic
be apodictic
be apparent
be appreciative of
be apprised
be apprised of
be aromatic
be around
be arrogant
be as expected
be as good as
be as good as your word
be as one looked for
be as one thought
be ashamed
be asleep at the switch
be asleep with the Lord
be astonished
be astounded
be at
be at a standstill
be at cross-purposes
be at ease
be at fault
be at home
be at home in
be at home to
be at one with
be at peace among yourselves
be at sea
be at the bottom of
be at the conn
be at the controls
be at the head of
be at the helm
be at the mercy of
be at the rudder
be at the tiller
be at the wheel
be at variance
be at work on
be at your service
be at your wit's end
be attractive
be aware of
be axiomatic
be based on
be before
be beforehand
be begotten
be behind
be behindhand
be believed
be benevolent
be benighted
be bereaved of
be bereft of
be beside yourself
be betimes
be beyond one
be big
be blessed-eventing
be blind
be blind to
be blinded by your own glory
be blooded
be bombastic
be born
be born for
be born out of wedlock
be born so
be born to trouble
be born under an evil star
be born unto trouble
be bound
be bound to pay
be bounded by
be brewing
be brief
be bright
be brilliant
be broad-minded
be brought down
be built that way
be buoyed up
be burnt into your memory
be busy
be called
be capricious
be careful
be caught napping
be caught out
be caught short
be caught with your pants down
be cautious
be certain
be champing at the bit
be changed
be characteristic
be cheap
be cheek by jowl with
be cheerful
be chopfallen
be clear
be clobbered
be close friends with
be closeted with
be coerced
be coextensive with
be cognizant of
be cold
be cold as ice
be comfortable
be comforted
be commensurable
be comparable
be compelled
be comprised in
be concave
be conceived
be concerned
be concise
be conditional on
be confident
be confined
be conscious of
be conservative
be considerate
be consistent
be conspicuous
be constituted by
be construed as
be consumed
be consumed with desire
be contained in
be contemptuous of
be content
be content with
be contiguous
be contingent
be contingent on
be continuous
be contrary to
be conversant with
be converted
be converted into
be convicted
be convinced
be convincing
be convulsed with laughter
be correct
be courteous
be covetous of
be credulous
be crestfallen
be crowned with success
be cruel to be kind
be crushed
be curious
be damaged
be damned
be damp
be dark
be dated
be dead
be dead and gone
be deaf
be death on
be deceived
be defeated
be demonstrable
be dependent on
be deserving
be desirous of
be despaired of
be desperately in love
be despondent
be destined
be destined for one
be destined for you
be destroyed
be determined
be diagnostic of
be difficult
be diffident
be dilatory
be disagreeable
be disappointed
be disappointing
be discovered
be discriminating
be disenchanted
be disgraced
be dishonest
be disillusioned
be disorderly
be disposed to
be disrespectful
be dissonant
be distant
be distasteful
be distinct
be distinguished
be doing
be done for
be erect
be ever the same
be evident
be excitable
be excited
be expectant
be expected
be expecting
be expedient
be experienced
be expert
be expert at
be expert in
be exposed
be exposed to
be extant
be extirpated
be eyeball to eyeball
be fair
be faithful to
be false
be famous
be far from your thoughts
be fashionable
be fastidious
be fat
be fated
be featured
be fed up
be feeling no pain
be felled
be financially committed
be firm
be fit to be compared
be fitted
be fitting
be fond of
be foolish
be for it
be forced
be forgetful
be forgotten
be formed
be fortunate
be found
be found guilty
be found wanting
be fragrant
be frank
be free
be frequent
be fresh in your memory
be friends
be frightened
be fruitful
be full of beans
be full of emotion
be full of ginger
be full of pep
be full of piss and vinegar
be full of zip
be gainful
be game
be garrulous
be gathered to your fathers
be generous
be generous with
be getting along
be given a jar
be given a jolt
be given a start
be given a turn
be glimpsed
be gone
be good
be good enough
be good for
be good to
be grateful
be gravid
be great with child
be green
be green in your memory
be guided by
be guilty
be had
be half-blind
be hand in glove with
be handy
be hanged
be hard on
be hard put
be hard to believe
be hard to please
be hard up
be harmonious
be heading for a fall
be healthy
be heard
be heavy
be heavy on one
be heavy on you
be heavy upon
be hell on
be hep to
be here again
be high
be holier than the Pope
be honest
be hopeful
be hopeless
be hostile
be hostile to
be hot
be humiliated
be hurting for
be hypocritical
be idle
be ignorant
be ill-humored
be illegitimate
be imbued with the spirit of
be imminent
be impatient
be imperfect
be imperturbable
be implicated in
be important
be impossible
be impotent
be impressed with yourself
be imprisoned
be improbable
be in
be in a brown study
be in a certain state
be in a dilemma
be in a hurry
be in a quandary
be in a rut
be in a speech situation
be in a state
be in accord with
be in action
be in bloom
be in cahoots
be in cahoots with
be in commission
be in concert
be in connection
be in contact
be in danger
be in desperate case
be in dissent
be in earnest
be in effect
be in error
be in existence
be in favor of
be in flower
be in for
be in for it
be in force
be in front
be in harmony with
be in heat
be in heaven
be in hopes
be in intercourse
be in it
be in league
be in line for
be in love with
be in luck
be in mortal dread of
be in need of
be in no hurry
be in office
be in on the decisions
be in operation
be in opposition to
be in paradise
be in peril
be in phase
be in process
be in progress
be in receipt of
be in rut
be in service with
be in seventh heaven
be in stitches
be in store
be in suspense
be in the best of health
be in the books
be in the cards
be in the dark
be in the debt of
be in the driver's seat
be in the family way
be in the fire
be in the future
be in the hopper
be in the neighborhood of
be in the pink
be in the pipeline
be in the prime of life
be in the running
be in the saddle
be in the van
be in the vanguard
be in the vicinity of
be in the way of
be in the works
be in the wrong
be in time
be in touch
be in tune
be in tune with
be in want
be in your dotage
be in your estimation
be in your mind
be in your second childhood
be in your thoughts
be inattentive
be incarnated
be inclined to think
be incognito
be incommunicado
be incomplete
be incomprehensible
be incredible
be incredulous
be incumbent on
be incumbent upon
be incurious
be indebted
be independent
be indicated
be indicative of
be indifferent
be indifferent to
be indiscreet
be industrious
be ineffective
be infanticipating
be inferior
be infinite
be infinitely repetitive
be influential
be informed
be inharmonious
be inhospitable
be inimical
be innocent of
be innocent of forethought
be inquisitive
be insane
be inscribed
be inseparable
be insolent
be inspired
be instated
be instrumental
be insufficient
be intelligent
be intelligible
be intemperate
be intimate
be into
be intoxicated
be invisible
be involved
be irrefutable
be irreligious
be irresolute
be it so
be jealous
be jealous of your good name
be jealous of your repute
be jobber for
be joined
be judged
be judgmental
be judicious
be just
be just like one
be just like you
be just right
be just the thing
be just the ticket
be just what the doctor ordered
be keen
be kept waiting
be killed
be kind
be knocked up
be known as
be known by
be lacking
be laid by the heels
be last off the mark
be late
be late off the mark
be latent
be lawless
be learned
be learned in
be led to believe
be left
be left at the post
be left at the starting gate
be left behind
be left over
be lengthy
be lenient
be let down
be liable
be liable for
be liberal with
be light
be like
be likely
be limited by
be listened to
be livid
be loaded
be located
be logical
be long
be long in the tooth
be long of the market
be loquacious
be lost
be lost in thought
be loving
be low
be lucky
be made one
be made public
be magnetic
be manifest
be master
be master of
be master of the situation
be meaningless
be merry with
be met with
be misguided
be misled
be missed
be mistaken
be moderate
be modest
be more than a match for
be moved
be mute
be nailed to the cross
be nauseated
be near
be near the truth
be necessary
be neglectful
be negligent
be nervous
be neutral
be nice
be nice to
be no more
be no revelation
be no secret
be nobody's fool
be noisy
be not all there
be not your day
be noticeable
be numerous
be nuts about
be obligated
be obligated for
be obliged
be obliged for
be observant
be obsessed with
be obstinate
be occupied with
be of advantage to
be of another mind
be of favorable disposition
be of good cheer
be of good hope
be of like mind
be of no importance
be of one
be of one mind
be of one mind with
be of service
be of service to
be of some help
be of the opinion
be of the same
be of the same order
be of two minds
be of use
be off
be off and running
be off the track
be off your guard
be on
be on a collision course
be on a collision course with
be on an ego trip
be on cloud nine
be on deck
be on everyone's lips
be on good terms
be on hand
be on her beam ends
be on pins and needles
be on pleasure bent
be on the
be on the alert
be on the anvil
be on the back of
be on the ball
be on the fence
be on the lookout
be on the lookout for
be on the point of
be on the right scent
be on the rolls
be on the safe side
be on the same wavelength
be on the skids
be on the spot
be on the watch
be on the watch for
be on to
be on your best behavior
be on your feet
be on your good behavior
be on your guard
be on your last legs
be on your mettle
be on your mind
be on your uppers
be on your way
be one all over
be open to
be operative
be opposed to
be opposite
be optimistic
be ordained
be ostentatious
be otherwise occupied
be out for blood
be out of all patience
be out of it
be out of line
be out of step
be out of the running
be out of the woods
be out of your depth
be out of your mind
be outdistanced
be outrun
be over
be overdue
be overfamiliar with
be overpossessive
be overpriced
be pacifistic
be paid
be painless
be painstaking
be parallel
be paralyzed with fear
be parsimonious
be partial to
be partners in
be past
be patient
be pensioned
be pensioned off
be permissive
be permitted
be persuaded
be persuasive
be pessimistic
be pinched
be pious
be pissed
be plain
be pleased
be pleased with
be pliant
be poised
be poleaxed
be poor
be possessed of
be possessed of the devil
be possessive
be possible
be practical
be precise
be predicated on
be predisposed
be pregnant
be prejudiced
be preoccupied
be prepared
be present
be present at
be present in
be printed
be prior
be probable
be prodigal with
be productive
be profitable
be prolonged
be prominent
be promiscuous
be promising
be proof against
be prosperous
be proud
be proud of
be proved
be pungent
be punished
be pushed to the wall
be put out of countenance
be put out to pasture
be put to the blush
be put to your wit's end
be putty in the hands of
be qualified
be quiet
be quits
be quits with
be rash
be ravenous
be ready
be ready and waiting
be ready for
be realized
be reasonable
be received
be reckless
be recognized
be reconciled to
be redolent of
be reflected
be regarded
be regarded as
be regulated by
be relaxed
be relieved
be relieved of choice
be religious
be remembered
be reminiscent of
be remunerated
be renewed
be repeated
be resentful
be resolute
be resolved
be responsible
be responsible for
be revealed
be rich
be right
be rightly served
be robbed of choice
be ruined
be safe
be salaried
be sanctimonious
be satisfactory
be satisfied
be seasick
be seated
be secluded
be secure in the belief
be security for
be seen
be seen in its true colors
be seen no more
be seen with half an eye
be seized by
be seized of
be seized with wonder
be self-consistent
be selfish
be sensible of
be sent back
be separated
be servile
be set by the current
be shamed
be sharp
be short
be short of the market
be sick
be significant of
be silent
be single
be situated
be skeptical
be skillful
be slow off the mark
be slow to accept
be slow to believe
be smitten
be so
be so good as to
be so in fact
be sociable
be sold
be somebody
be something
be somewhere else
be sorry for
be sought after
be spared
be spent
be sphinxlike
be spliced
be spoiling for
be sponsor for
be staggered
be stamped on your memory
be startled
be still
be stingy
be stood up
be straight
be straight man for
be stripped
be stricken
be stricken by
be strict
be striken drunk
be strong
be strong in
be struck down
be stuck on yourself
be stuck-up
be stupid
be subject to
be subjected to
be successful
be such
be suicidal
be superannuated
be superseded
be superstitious
be surprised
be swallowed
be sweet on
be swept off your feet
be symptomatic of
be tactful
be taken aback
be taken as
be taken by death
be taken by surprise
be taken in
be taken unawares
be tasteful
be taught
be taught a lesson
be tedious
be telegraphic
be temperate
be thankful
be that as it may
be the bellwether
be the case
be the cause of
be the death of
be the death of one
be the death of you
be the decisive factor
be the duty of
be the effect of
be the equivalent of
be the fashion
be the front-runner
be the goat
be the incumbent
be the making of
be the mark of
be the matter
be the omen of
be the one that counts
be the patsy
be the plaything of
be the prey of
be the puppet of
be the rage
be the rule
be the saving of
be the sign of
be the soul of discretion
be the sport of
be the sport of winds and waves
be the style
be the thing
be the very image of
be the worse for
be the worse for wear
be theatrical
be there
be there for all to see
be thorough
be thoroughly grounded in
be thought of
be thoughtful of
be threatened
be thrilled
be thus
be timely
be tired
be to be
be to come
be to windward of
be to your liking
be told
be too deep
be too deep for
be too good for
be too much for
be touch and go
be touched
be tough
be transient
be transparent
be traumatized
be true
be truthful
be turbulent
be turned off by
be turned on by
be turned on to
be ugly
be unable to comprehend
be unable to get into your head
be unable to recall
be unable to recollect
be unable to retain
be unable to see
be unastonished
be unbelievable
be uncertain
be unchaste
be uncommunicative
be uncritical
be under an obligation
be under the impression
be under the necessity of
be under the sea
be under way
be understandable
be understood
be undesirable
be undiscriminating
be unexpected
be unfaithful
be unflappable
be ungrateful
be unguarded
be uniform with
be unimportant
be unintelligent
be uninteresting
be uninteresting
be unjust
be unmarried
be unmindful of
be unmoved
be unorthodox
be unpleasant
be unprepared
be unproductive
be unready
be unregretful
be unseen
be unselfish
be unsociable
be unsuccessful
be unsure
be untruthful
be unwary
be unwilling
be up against it
be up and doing
be up and stirring
be up on
be up to
be up to something
be upbeat
be uppermost in the mind
be uppermost in your thoughts
be used to
be used up
be vain
be vain as a peacock
be victorious
be vigilant
be vigorous
be virtuous
be visible
be vital
be wafted
be warm
be watchful
be weak
be wedded to a belief
be well-informed
be wholesaler for
be widely reputed
be willing
be wiped out
be wise as a serpent
be wise as an owl
be wise to
be with child
be with it
be with one
be with young
be without end
be wont
be worth your while
be worthwhile
be worthy of
be worthy of comparison
be wreathed in smiles
be wrong
be your charge
be your due
be your fate
be your funeral
be your mission
be your office
be your outlook
be your own boss
be your own man
be your probable destiny
be your probable fate
be your prospect
be your responsibility
be yourself
be yourself again
be-
be-all
be-all and end-all
be-east
be-smut
be-smutch
bean ladybird
bean leaf beetle
bean leaf roller
bean louse
bean mildew
bean mosaic
bean oil
bean picker
bean planter
bean pole
bean polisher
bean pot
bean rick
bean rust
bean shot
bean sprout
bean sprouts
bean thresher
bean tree
bean trefoil
bean tressel
bean vine
bean weevil
bean-bag
bean-caper family
bean-cleaning
bean-crushing
bean-feast
bean-fed
bean-planting
bean-pod borer
bean-polishing
bean-shaped
bear a child
bear a grudge
bear a hand
bear a helping hand
bear account
bear against
bear animalcule
bear arms
bear away
bear brush
bear bush
bear cap
bear cat
bear caterpillar
bear clover
bear corn
bear cub
bear date
bear down
bear down on
bear down on it
bear down upon
bear false witness
bear festival
bear for
bear fruit
bear garden
bear good will
bear grape
bear grass
bear hard upon
bear huckleberry
bear hug
bear ill will
bear in mind
bear in with
bear leader
bear malice
bear market
bear mat
bear more than your share
bear moss
bear no resemblance
bear no resemblance to
bear oak
bear off
bear off the land
bear on
bear out
bear pack
bear panic
bear pig
bear pit
bear plum
bear pool
bear raid
bear reign
bear resemblance
bear sail
bear skeiters
bear the brunt
bear the cost
bear the expense
bear the market
bear the name of
bear the palm
bear to leeward
bear to port
bear to starboard
bear to windward
bear trap
bear up
bear up against
bear up for
bear up to
bear up under
bear upon
bear warden
bear whortleberry
bear with
bear with composure
bear witness
bear witness against
bear you company
bear young
bear your cross
bear yourself
bear yourself with credit
bear's-breech
bear's-ear
bear's-foot
bear's-feet
bear's-paw
bear-baiting
bear-lead
bear-leader
bear-trap dam
bear-tree
beard grass
beard lichen
beard moss
beard plant
beard the lion in his den
beard tree
bearded darnel
bearded lizard
bearded tit
bearded vulture
bearding line
bearding machine
bearer bar
beat a devil's tattoo
beat a retreat
beat a ruffle
beat a tattoo
beat about
beat about for
beat about the bush
beat against
beat all hollow
beat an alarm
beat around
beat around the bush
beat back
beat black and blue
beat block
beat board
beat by a nose
beat down
beat generation
beat hollow
beat into
beat into your head
beat it
beat man
beat note
beat off
beat one
beat out
beat pin
beat poet
beat reception
beat signal
beat the Dutch
beat the air
beat the bounds
beat the bushes
beat the drum
beat the drum for
beat the drums
beat the game
beat the gums
beat the rap
beat the shit out of
beat the system
beat the tar out of
beat time
beat to a jelly
beat to the draw
beat to windward
beat tone
beat up
beat up against
beat your brains
beat your brains out
beat your breast
beat your gums
beat your swords into plowshares
beat your way
beat-beat
beat-frequency oscillator
beat-up
beaten biscuit
beaten egg
beaten path
beaten proof
beaten track
beaten up
beaten work
beater press
beater-out
beater-up
beaters-up
beatific vision
beatified soul
beating heart
beating machine
beating orders
beating reed
beating-up
beatrix antelope
beau brummell
beau garcon
beau geste
beau ideal
beau ideals
beau monde
beau sabreur
beau-ideal
beau-idealize
beau-monde
beau-pleader
beau-pot
beaufort scale
beaumont root
beaus ideal
beautiful friendship
beautiful man
beautiful people
beautiful person
beautiful thing
beautiful woman
beauty bush
beauty contest
beauty contest winner
beauty culture
beauty culturist
beauty of holiness
beauty parlor
beauty pin
beauty plaster
beauty queen
beauty salon
beauty shop
beauty sleep
beauty spot
beauty treatment
beauty unadorned
beauty wash
beauty-beaming
beauty-berry
beauty-blind
beauty-blooming
beauty-blushing
beauty-breathing
beauty-bright
beauty-bush
beauty-clad
beauty-fruit
beauty-loving
beauty-parlor chitchat
beauty-proof
beauty-waning
beaux arts
beaux esprits
beaux gestes
beaux ideal
beaux yeux
beaux-arts
beaux-esprits
beaver board
beaver brown
beaver cloth
beaver dam
beaver eater
beaver finish
beaver lily
beaver poison
beaver rat
beaver stones
beaver top
beaver tree
beaver-tree
beavertail beam
beavertail reflector
beazor nuts
bec et ongles
because of
because of that
because of this
bechamel sauce
beche-de-mer
beche-le-mar
beck and call
becket bend
becket knot
becking hammerman
beckoning crab
become a habit
become a member
become acquainted with
become adept in
become airborne
become alive to
become an appendage of
become an individual
become angry
become attached to
become awake to
become aware of
become bankrupt
become bound to
become conscious of
become conversant with
become defunct
become disordered
become enamored
become engaged
become excited
become exhausted
become extinct
become familiar with
become fashionable
bee tree
bee wine
bee wolf
bee's knees
bee-but
bee-eater
bee-headed
bee-loud
beech agaric
beech cherry
beech coal
beech family
beech fern
beech leaf snake
beech marten
beech mast
beech oil
beech tree
beech wheat
beech-green
beech-seedling mildew
beechnut oil
beechwood creosote
beef Bourguignon
beef Bourguignonne
beef Wellington
beef apple
beef bouillon
beef bread
beef cattle
beef dodger
beef extract
beef ham
beef juice
beef marrow
beef road
beef stearin
beef stroganoff
beef tallow
beef tea
beef up
beef's blood
beef-brained
beef-eating
beef-faced
beef-steak
beef-suet tree
beef-witted
beef-wittedly
beef-wittedness
beef-wood
beefed-up
beefing-up
beefsteak begonia
beefsteak fungus
beefsteak geranium
beefsteak plant
beefsteak saxifrage
beefwood family
beehive coke
beehive house
beehive kiln
beehive oven
beehive shelf
beehive tomb
beehive-shaped
beena marriage
beer and skittles
beer barrel
beer bottle
beer bottler
beer brewer
beer cellar
beer chiller
beer drinker
beer engine
beer fall
beer gallon
beer garden
beer glass
beer grains
beer hall
beer heart
beer keg
beer maker
beer money
beer mug
beer parlor
beer pump
beer scale
beer stone
beer vat
beer vinegar
beer yeast
beer-up
bees and honey
before the war
during the war
during the wind
during your eyes
during your face
during your time
during your very eyes
during-cited
during-created
during-delivered
during-going
during-known
during-mentioned
during-named
before-noticed
before-recited
before-said
before-tasted
before-thought
before-told
before-warned
before-written
beg a truce
beg for mercy
beg for your life
beg forgiveness
beg indulgence
beg leave
beg leave to doubt
beg off
beg pardon
beg the ear of
beg the question
beg to differ
beg, borrow, or steal
beggar boy
beggar brushes
beggar description
beggar girl
beggar maid
beggar's chicken
beggar's-lice
beggar's-tick
beggar's-ticks
beggar-lace
beggar-my-neighbor
beggar-my-neighbour
beggar-patched
beggar-tick
beholden to
beignet aux pommes
being ahead
being alive
being as how
being at rest
being brought to bed
being done
being here
being there
being uninteresting
bel canto
bel esprit
bel-accol
bel-esprit
belay that
belay there
belaying cleat
belaying pin
belgian hare
belie-ve
believe anything
believe at the drop of a hat
believe in
believe without reservation
belittle yourself
bell animalcule
bell arch
bell beaker
bell book
bell borer
bell buoy
bell button
bell cage
bell canopy
bell captain
bell caster
bell casting
bell chasuble
bell chime
bell chuck
bell cord
bell cot
bell cote
bell cow
bell crank
bell crater
bell deck
bell founder
bell founding
bell frog
bell gable
bell gamba
bell glass
bell harp
bell heather
bell horse
bell jar
bell kite
bell ling
bell loft
bell magpie
bell maker
bell mare
bell metal
bell moth
bell olive tree
bell pepper
bell polyp
bell pull
bell punch
bell push
bell ringer
bell ringing
bell rope
bell salt
bell scraper
bell screw
bell seat
bell sheep
bell tent
bell the cat
bell thistle
bell toad
bell tower
bell transformer
bell trap
bell tree
bell vine
bell whistle
bell wire
bell-alarm switch
bell-bearer
bell-bird
bell-bottom
bell-bottomed
bell-bottoms
bell-cranked
bell-crowned
bell-faced
bell-flower
bell-flowered
bell-hanger's bit
bell-hooded
bell-house
bell-less
bell-like
bell-maggie
bell-metal
bell-metal ore
bell-mouthered
bell-nosed
bell-ringer
bell-shaped
bell-tongue
bell-up
bell-wether
belladonna lily
belladonna ointment
belle epoque
belle poque
belle tournure
belles lettres
belles-lettres
bellflower family
belli causa
bellow like a bull
bellow out
bellows blower
bellows boy
bellows engine
bellows fish
bellows maker
bellows mender
bellows pneumatic
bellows treader
bells of Ireland
belly ache
belly board
belly brace
belly buster
belly button
belly dance
belly dancer
belly dancing
belly doublet
belly flop
belly flopper
belly friend
belly gunner
belly guy
belly landing
belly laugh
belly offal
belly out
belly rail
belly roll
belly stay
belly tank
belly truss
belly whop
belly whopper
belly worshiper
belly-band
belly-beaten
belly-blind
belly-bound
belly-bumper
belly-cheer
belly-devout
belly-fed
belly-flop
belly-flopped
belly-flopping
belly-ful
belly-god
belly-gulled
belly-gun
belly-helve
belly-laden
belly-land
belly-landing
belly-naked
belly-piece
belly-pinched
belly-proud
belly-sprung
belly-timber
belly-wash
belly-whop
belly-whopped
belly-whopping
belly-worshiping
belong to
belong to by nature
belong to the past
beloved object
below contempt
below deck
below par
below stairs
below standard
below the belt
below the limen of hearing
below the line
below the mark
below the salt
below the threshold of hearing
below zero
belt awl
belt carrier
belt clamp
belt conveyer
belt coupler
belt course
belt cutter
belt fork
belt highway
belt hoist
belt idler
belt in
belt insulation
belt knitter
belt lacing
belt line
belt maker
belt man
belt out
belt pulley
belt punch
belt railroad
belt sander
belt saw
belt shifter
belt shipper
belt slip
belt speeder
belt tenter
belt up
belt-coupled
belt-cutting
belt-driven
belt-folding
belt-repairing
belt-sanding
belt-sewing
belt-tightening
belted bias tire
belted kingfisher
belted knight
belted radial tire
belted sandfish
belted-skelter
beltsville small white
ben chervil
ben nut
ben oil
ben trovato
ben-teak
bench clamp
bench dog
bench drill
bench hardening
bench holdfast
bench hook
bench jockey
bench key
bench knife
bench lathe
bench mark
bench plane
bench press
bench root
bench scales
bench screw
bench show
bench stamper
bench stop
bench strip
bench table
bench terrace
bench test
bench tester
bench warmer
bench warrant
bench winder
bench-hardened
bench-kneed
beneath notice
beneath one
beneath the sky
beneath the sod
beneath your dignity
beneath your station
benefice-holder
beneficial interest
beneficiary heir
benefit association
benefit club
benefit from
benefit of clergy
benefit performance
benefit society
benefits forgot
benevolent despotism
benevolent disposition
bengal light
benign tumor
benjamin bush
benjamin tree
benjamin-bush
benne oil
benneting time
benni cake
bent grass
bent land
bent on
bent on pleasure
bent with age
bent-taildog
benthic zone
bentu de soli
benz-
benzal chloride
benzal group
benzal radical
benzalkonium chloride
benzene hexachloride
benzene nucleus
benzene ring
benzene series
benzenecarboxylic acid
benzenesulfonic acid
benzethonium chloride
benzidine colors
benzidine dye
benzidine rearrangement
benzine cup
benzo fast scarlet
benzo orange
benzo paradiazine
benzo paroxazine
benzo-
benzoate of soda
benzoic acid
benzoic aldehyde
benzoic sulphinide
benzol distiller
benzol extractor
benzoyl acetyl peroxide
benzoyl chloride
benzoyl green
benzoyl group
benzoyl hydride
benzoyl peroxide
benzoyl radical
benzyl acetate
benzyl alcohol
benzyl benzoate
benzyl bromide
benzyl butyrate
benzyl chloride
benzyl cyanide
benzyl dichloride
benzyl fluoride
benzyl fumarate
benzyl group
benzyl isoamyl ether
benzyl radical
benzyl succinate
benzyl thiocyanate
benzylidene acetone
benzylidene chloride
berberine tree
berberonic acid
berbice chair
bereave of life
bereaved of
bereft of
bereft of life
bereft of light
bereft of reason
berenice's hair
berg adder
beset with danger
besetting sin
beside the mark
beside the point
beside the question
beside yourself
beside yourself with joy
besom moss
bessemer converter
bessemer process
best bet
best bib and tucker
best bower
best clothes
best end
best friend
best girl
best love
best man
best part
best people
best regards
best room
best seller
best type
best wishes
best, the
best-able
best-abused
best-accomplished
best-agreeable
best-armed
best-ball
best-ball foursome
best-ball match
best-beloved
best-bred
best-built
best-clad
best-conditioned
best-conducted
best-considered
best-consulted
best-cultivated
best-dressed
best-established
best-esteemed
best-formed
better-balanced
better-becoming
better-behaved
better-born
better-bred
better-considered
better-disposed
better-dressed
better-humored
better-informed
better-knowing
better-known
better-liked
better-liking
better-meant
better-natured
better-omened
better-principled
better-regulated
better-seasoned
better-taught
better-witted
betterment tax
betting house
betting machine
betting parlor
betting ring
betting shop
betting system
betula camphor
betula oil
between Scylla and Charybdis
between acts
between brain
between decks
between halves
between now and then
between ourselves
between periods
between the hammer and the anvil
between the lines
between the teeth
between two fires
between two stools
between us
between wind and water
between you
between you and me
between your teeth
between-deck
between-decks
between-maid
between-whiles
betwixt and between
betwixt sleep and waking
beurre blanc
beurre fondu
beurre noir
bevel bearing
bevel edge
bevel gauge
bevel gear
bevel gearing
bevel joint
bevel pinion
bevel protractor
bevel siding
bevel square
bevel washer
bevel wheel
bevel-edged
bevel-faced hammer
beveling edge
beverage room
beyond a doubt
beyond a shade of doubt
beyond a shadow of doubt
beyond all bounds
beyond all expectation
beyond all limits
beyond all praise
beyond all question
beyond belief
beyond compare
beyond comparison
beyond control
beyond doubt
beyond expectation
beyond measure
beyond need
beyond one
beyond price
beyond question
beyond reach
beyond reason
beyond recall
beyond remedy
beyond seas
beyond the bounds
beyond the bounds of possibility
beyond the bounds of reason
beyond the call of duty
beyond the pale
beyond the shadow of a doubt
beyond understanding
beyond your ability
beyond your capacity
beyond your comprehension
beyond your control
beyond your depth
beyond your fondest dreams
beyond your means
beyond your power
beyond, the
bez antler
bez tine
bez-antler
bezoar antelope
bezoar goat
bezoar mineral
bezoar stone
bhut-bali
bi-
bi-bivalent
bi-guy
bi-iliac
bi-ischiadic
bi-ischiatic
bi-tri-
bialystok roll
bias binding
bias tire
bias your judgment
bib and brace
bib and tucker
bib nozzle
bib pout
bibble-babble
bible-christian
bible-clerk
biblico-
biblio-
bibliography of bibliographies
bicameral legislature
bicarbonate of soda
bice blue
bice green
bichloride of mercury
bichromate cell
bichromate filter
bick-iron
bicker over
bicolor lespedeza
bicuspid valve
bicycle chain
bicycle clip
bicycle path
bicycle pump
bicycle race
bicycle racing
bicycle saddle
bicycle seat
bicycle-built-for-two
bicyclic terpene
bid Godspeed
bid a long farewell to
bid ale
bid at auction
bid bond
bid come
bid defiance
bid defiance to
bid euchre
bid fair
bid fair to
bid farewell
bid for
bid good day
bid good morning
bid good-bye
bid hello
bid in
bid prayer
bid price
bid time return
bid to combat
bid up
bid well
bid you welcome
bid-a-bid
bid-ale
bid-and-asked prices
biddery ware
bidding prayer
biddy-bid
biddy-biddy
bide the issue
bide your time
bidgee-widgee
biding place
bien cuit
bien entendu
bier right
bifurcation theory
big Chief
big Daddy
big White Chief
big as you please
big baby
big bag of wind
big band
big bang theory
big battalions
big bedbug
big ben
big bluestem
big boss
big boy
big brother
big bruiser
big bug
big business
big businessman
big casino
big cat
big cheese
big chief
big deal
big dipper
big drink
big drunk
big end
big game
big game hunter
big gun
big hand
big heart
big hit
big hook
big house
big idea
big laurel
big league
big lie
big man
big man on campus
big marigold
big mouth
big name
big noise
big operator
big person
big price tag
big screen
big shot
big sister
big skate
big smoke
big stick
big talk
big talker
big time
big toe
big top
big top, the
big tree
big wheel
big wind
big with child
big with meaning
big with young
big word
big-antlered
big-armed
big-bang theory
big-bearded
big-bellied
big-bodied
big-boned
big-bosomed
big-breasted
big-bulked
big-chested
big-city man
big-cone pine
big-cone spruce
big-eared
big-endian
big-eyed
big-footed
big-framed
big-gaited
big-handed
big-headed
big-hearted
big-hoofed
big-jawed
big-laden
big-leaf ivy
big-leaf laurel
big-leaf maple
big-league
big-leaguer
big-leaved
big-leaved magnolia
big-looking
big-moutherd
big-name
big-nosed
big-note
big-rich
big-souled
big-sounding
big-swollen
big-ticket
big-time
big-time operator
big-time spender
big-timer
big-voiced
big-waisted
big-eye scad
bigger half
biggest frog in the pond
bighorn sheep
biglip sucker
bigmouth buffalofish
bihar tree
biik tooling
bilateral symmetry
bile acid
bile cyst
bile duct
bile pigment
bile salt
bile vessel
bilge block
bilge board
bilge coad
bilge keel
bilge keelson
bilge log
bilge piece
bilge pump
bilge rail
bilge saw
bilge strake
bilge water
bilge ways
bilge well
bilge-hoop
bilge-keel
bilge-water
bili-
biliary calculus
biliment lace
bilinear form
bilinear transformation
bilingual dictionary
bilingual edition
bilingual text
bilious cholera
bill and coo
bill book
bill broker
bill case
bill clerk
bill collector
bill discounter
bill discounting
bill file
bill of account
bill of adventure
bill of attainder
bill of complaint
bill of draft
bill of entry
bill of exchange
bill of fare
bill of goods
bill of health
bill of indictment
bill of lading
bill of mortality
billy-goat weed
billycock hat
bimetallic balance
bimetallic strip
bin-
bin-burn
binary arithmetic
binary cell
binary code
binary digit
binary fission
binary form
binary notation
binary number
binary operation
binary opposition
binary scale
binary star
binary system
binary-coded decimal
binary-coded decimal system
binaural broadcasting
binaural system
bind day
bind off
bind over
bind rail
bind up
bind yourself to
bind-days
binder board
binder course
binder pulley
binder twine
binder's board
binder's cloth
binder's title
bindi-eye
binding agreement
binding arbitration
binding course
binding edge
binding energy
binding off
binding over
binding post
binding rafter
binding receipt
biological urge
biological vector
biological warfare
biological weapons
biotic potential
bipartisan policy
biphenyl rearrangement
birch beech
birch beer
birch borer
birch camphor
birch family
birch oil
birch partridge
birch skeletonizer
birch wine
birch-bark call
birch-bark oil
birch-leaf mahogany
birch-leaf skeletonizer
birch-tar oil
bird augury
bird bell
bird bolt
bird brier
bird cactus
bird cage
bird call
bird cherry
bird colonel
bird dog
bird duffer
bird eagles
bird eye
bird fancier
bird flower
bird fly
bird font
bird food
bird grape
bird grass
bird group
bird in hand
bird in the hand
bird knotgrass
bird louse
bird malaria
bird mite
bird net
bird of Jove
bird of Juno
bird of Minerva
bird of another feather
bird of ill omen
bird of night
bird of paradise
bird of passage
bird of peace
bird of prey
bird pepper
bird pest
bird plant
bird pox
bird preserver
bird rattle
bird refuge
bird sanctuary
bird seed
bird shop
bird shot
bird skin
bird snake
bird song
bird sound
bird spider
bird strike
bird stuffer
bird table
bird thistle
bird tick
bird vetch
bird watcher
bird whistle
bird young
bird's beak
bird's egg
bird's mouth
bird's nest
bird's nest soup
bird's-eye
bird's-eye maple
bird's-eye primrose
bird's-eye view
bird's-eyes
bird's-foot
birth hour
birth month
birth name
birth pain
birth palsy
birth pang
birth pangs
birth phantasy
birth rate
birth sin
birth theory
birth three
birth throes
birth trauma
birth year
birth-control pill
birthday cake
birthday gift
birthday present
birthday suit
birthwort family
bis-
biscuit bag
biscuit baker
biscuit baking
biscuit beetle
biscuit box
biscuit china
biscuit clay
biscuit cutter
biscuit drawer
biscuit fire
biscuit fireman
biscuit firing
biscuit kilnman
biscuit leaves
biscuit oven
biscuit painter
biscuit pan
biscuit plant
biscuit porcelain
biscuit pottery
biscuit tortoni
biscuit ware
biscuit warehouse
biscuit weevil
biscuit worm
biscuit-brained
biscuit-colored
biscuit-fired
biscuit-shaped
bisecting compass
bisecting dividers
bishop bird
bishop coadjutor
bishop cotton
bishop pine
bishop ray
bishop sleeve
bishop stool
bishop suffragan
bishop's mitre
bishop's palace
bishop's purple
bishop's ring
bishop's weed
bishop's-cap
bishop's-weed
bismuth blende
bismuth chromate
bismuth glance
bismuth ocher
bismuth oxychloride
bismuth oxynitrate
bismuth spar
bismuth subchloride
bismuth subnitrate
bismuth tribromphenate
bismuth white
bismuth yellow
bismuthyl chloride
bisextile day
bisextile year
bistable circuit
bister green
bit by bit
bit gauge
bit key
bit much, a
bit of your mind
bit part
bit pincers
bit player
bit stop
bit, a
bit-by-bit
bit-weight control
bit-wise
bitch box
bitch chain
bitch goddess
bitch up
bitch-kitty
bitched up
bite back
bite in
bite off more than you can chew
bite plate
bite the bullet
bite the dust
bite the hand that feeds one
bite the hand that feeds you
bite the thumb at
bite the tongue
bite your head off
bite your lip
bite your nails
bite your nose off
bite your tongue
bite-sheep
bite-tongue
biting angle
biting housefly
biting louse
biting midge
biting wind
biting your nails
bito tree
bitt pin
bitten-leaf disease
bitter almond
bitter almond oil
bitter apple
bitter as gall
bitter cassava
bitter chocolate
bitter cold
bitter cress
bitter cup
bitter defeat
bitter disappointment
bitter dock
bitter draft
bitter draught
bitter end
bitter enemy
bitter feeling
bitter herb
bitter lake
bitter lemon
bitter orange
bitter pill
bitter principle
bitter resentment
bitter rot
bitter weather
bitter wood
bitter words
bitter-
bitter-almond oil
bitter-biting
bitter-end
bitter-ender
bitter-enderism
bitter-endism
bitter-orange oil
bitter-rinded
bitter-sweet
bitter-sweeting
bitter-tasting
bitter-tongued
bitterly cold
bitterly disappointed
bitterness of spirit
bitumen process
bituminous coal
bituminous macadam
biuret reaction
biuret test
bivalvate Biology
biw-
blab out
blab school
black Angus
black Minorca
black Orpington
black Spanish
black Sumatra
black acacia
black alder
black and blue
black and tan
black and white
black ant
black arm
black art
black art, the
black as a crow
black as coal
black as ebony
black as ink
black as midnight
black as night
black as pitch
black balsam
black basaltes
black bass
black bead
black bean
black bear
black beast
black beetle
black belt
black bent
black bile
black bindweed
black blizzard
black board
black body
black book
black bottom
black box
black brant
black bread
black bryony
black buck
black buffalo
black buran
black butter
black calla
black cap
black carpet beetle
black cat
black chaff
black cherry
black chokeberry
black clouds
black cod
black cohosh
black comedy
black copper
black cosmos
black crappie
black currant
black death
black despondency
black diamond
black diamonds
black disease
black dog
black drop
black duck
black durgon
black earth
black eye
black face
black face Highland
black fever
black fish
black flag
black flux
black fly
black fog
black foot
black fox
black friar
black frost
black game
black gang
black ghetto
black gnat
black gold
black gown
black gram
black grouse
black guillemot
black gum
black hand
black haw
black heat
black hellebore
black henbane
black hole
black horehound
black huckleberry
black humor
black ice
black ink
black ivory
black jack
black kite
black knot
black lead
black letter
black light
black liquor
black list
black locust
black look
black looks
black lung
black magic
black mail
black man
black maple
black margate
black maria
black mark
black mark to
black market
black marketeer
black marketer
black marten
black mass
black measles
black medic
black medick
black mercuric sulfide
black mold
black molly
black monday
black monk
black moor
black mould
black mulberry
black mustard
black nickel oxide
black nightshade
black nob
black oak
black opal
black or white
black out
black paternoster
black pepper
black perch
black pewter
black pit
black plague
black poplar
black powder
black power
black prince
black pudding
black quarter
black race
black raspberry
black rat
black ring
black rod
black root rot
black rot
black rudderfish
black ruff
black rust
black sable
black sage
black salts
black saltwort
black sand
black sap
black scoter
black sea bass
black selenium
black shank
black sheep
black skimmer
black snake
black snakeroot
black soap
black spot
black spruce
black squall
black squirrel
black stem
black stick
black storm
black studies
black stuff
black stump
black sucker
black supremacy
black swallowtail
black swan
black tea
black tie
black titi
black tracker
black treacle
black turnstone
black velvet
black vomit
black vote
black vulture
black walnut
black wash
black wattle
black whale
black widow
black widow spider
black witch
black-a-viced
black-a-visaged
black-a-vised
black-and-blue
black-and-blue mark
black-and-tan
black-and-tan terrier
black-and-white
black-and-white film
black-and-white photograph
black-and-white television
black-aproned
black-back flounder
black-backed
black-backed gull
black-ball
black-banded
black-bark pine
black-bearded
black-bellied
black-bellied plover
black-belt
black-berried
black-billed
black-billed cuckoo
black-billed magpie
black-blooded
black-blue
black-bodied
black-boding
black-bordered
black-boughed
black-breasted
black-browed
black-brown
black-bulb thermometer
black-bundle disease
black-capped
black-capped chickadee
black-chinned
black-clad
black-coat worker
black-coated
black-colored
black-cornered
black-crested
black-crowned
black-currant rust
black-eared
black-ears
black-edged
black-eye bean
black-eye sunfish
black-eyed
black-eyed Susan
black-eyed pea
black-eyed susan
black-faced
black-favored
black-feathered
black-figure
black-figured
black-fin snapper
black-footed
black-footed ferret
black-fruited
black-gowned
black-hafted
black-haired
black-head
black-headed
black-headed fireworm
black-headed gull
black-hearted
black-hilted
black-hole
black-hooded
black-hoofed
black-leg
black-legged
black-letter
black-letter day
black-lidded
black-lipped
black-locked
black-looking
black-maned
black-margined
black-market
black-marketeer
black-mouth
black-mouthed
black-neb
black-necked
black-necked stork
black-nosed
black-out
black-peopled
black-plumed
black-pot
black-red
black-robed
black-rooted
black-sander
black-shouldered
black-skinned
black-snake
black-spot canker
black-spotted
black-stoled
black-tail
black-tailed
black-tailed deer
black-thorn
black-throated
black-tie
black-toed
black-tongued
black-tressed
black-tufted
black-varnish tree
black-veiled
black-visaged
black-wash
black-whiskered
black-wood
black-back flounder
bladder tree
bladder worm
bladder wrack
bladdernut family
bladderwort family
blade angle
blade apple
blade buffer
blade grader
blade harrow
blade roast
blade-point
blah feeling
blah-blah
blame for
blame on
blame upon
blame yourself
blame-shifting
blanc d'Espagne
blanc d'argent
blanc de blancs
blanc de fard
blanc de noirs
blanc fixe
blanch farm
blanch over
blanched almonds
blanco perch
bland diet
blank cartridge
blank check
blank cheque
blank despondency
blank determination
blank endorsement
blank flange
blank future
blank mind
blank out
blank shell
blank verse
blank wall
blank-eyed
blank-looking
blank-minded
blanket alga
blanket ballot
blast wave
blast your hope
blast-
blast-borne
blast-freeze
blast-freezing
blast-frozen
blast-furnace
blast-off
blasted expectation
blasting cap
blasting cartridge
blasting circuit
blasting detonator
blasting fuse
blasting gelatin
blasting machine
blasting mat
blasting needle
blasting oil
blasting paper
blasting powder
blasting spoon
blasting tools
blasting tube
blasto-
blatti family
blaze a trail
blaze about
blaze abroad
blaze current
blaze of glory
blaze of light
blaze of temper
blaze the trail
blaze up
blazing fire
blazing light
blazing star
blazon about
blazon abroad
blazon forth
bleach liquor
bleach out
bleach process
bleach wax
bleached blond
bleached out
bleached white
bleached-blond
bleaching agent
bleaching clay
bleaching croft
bleaching earth
bleaching engine
bleaching field
bleaching green
bleaching ground
bleaching powder
bleaching substance
bleaching tank
bleak outlook
bleak prognosis
bleak prospect
bleak weather
blear the eyes of
blear-eyed
blear-eyedness
blear-witted
bleary-eyed
bled white
bleed for
bleed nipple
bleed valve
bleed white
bleeder pipe
bleeder resistor
bleeder tile
bleeder's disease
bleeding disease
bleeding heart
bleeding-heart pigeon
bleeper Informal
blend in with
blend into
blend-word
blended whiskey
blending inheritance
blenno-
blennorrhagic arthritis
blephar-
blepharo-
bles mole
bles-bok
bless His holy name
bless my heart
bless out
bless the Lord
bless with
bless your stars
blessed event
blessed release
blessed sacrament
blessed thistle
blessed with
blessed with luck
bleu celeste
bleu cheese dressing
blight canker
blight your hope
blighted area
blighted hope
blighted neighborhood
blighted section
blighting glance
blind Chance
blind Justice
blind alley
blind and naked Ignorance
blind as a bat
blind as a mole
blind as an owl
blind bargain
blind bombing
blind casing
blind coal
blind copy
blind date
blind door
blind drunk
blind faith
blind fish
blind flange
blind flight
blind floor
blind flying
blind guess
blind gut
blind header
blind hookey
blind impulse
blind instinct
blind landing
blind leaders of the blind
blind man
blind man's buff
blind man's holiday
blind man's rule
blind man's watch
blind nailing
blind pig
blind poker
blind pool
blind rage
blind salamander
blind seed
blind side
blind snake
blind spot
blind spots
blind staggers
blind stamping
blind the eyes
blind tiger
blind to
blind tooling
blind trust
blind window
blind your eyes
blind yourself
blind yourself to
blind, the
blind-alley
blind-head
blind-loaded
blind-man's-buff
blind-nail
blind-nettle
blind-pigger
blind-pigging
blind-punch
blind-stamp
blind-stamped
blind-tool
blind-tooled
blind-worm
blind-your-eyes
blindfold chess
blindfolded Justice
blinding light
blindman's bluff
blindman's buff
blink aside
blink at
blink away
blink beer
blink comparator
blink microscope
blink-eyed
blinker lamp
blinker light
blinker tube
blinking light
blinking sort o' place
bliss body
blister beetle
blister blight
blister bush
blister canker
blister canopy
blister cone
blister copper
blister flower
blister fly
blister gas
blister mite
blister pearl
blister plant
blister plaster
blister rust
blister spot
blister steel
blithe-looking
blithering idiocy
blithering idiot
blitz can
blitzkrieg tactics
blo doper
bloat clover
bloat colic
bloat herring
bloated aristocrat
bloated plutocrat
bloated with pride
bloater whitefish
blobber lip
blobber-lipped
block and block
block and falls
block and tackle
block anesthesia
block ball
block bond
block book
block booking
block brake
block capital
block chain
block chords
block coal
block coefficient
block colors
block core
block diagram
block diamond
block faulting
block flute
block foot
block front
block furnace
block grant
block hole
block in
block in course bond
block irrigation
block lava
block letter
block line
block maker
block mast
block model
block mold
block mountain
block off
block out
block party
block pattern
block plan
block plane
block print
block printing
block punch
block rate
block release
block signal
block signaling
block signals
blood count
blood covenant
blood crisis
blood crystals
blood culture
blood cup
blood disease
blood diseases
blood disk
blood dock
blood donor
blood donor center
blood dust
blood feud
blood fine
blood flour
blood fluke
blood geranium
blood gill
blood gland
blood glue
blood groove
blood group
blood grouping
blood guilt
blood heat
blood horse
blood islands
blood knot
blood lily
blood lust
blood mare
blood meal
blood mole
blood money
blood orange
blood pheasant
blood picture
blood pink
blood plant
blood plasma
blood platelet
blood plum
blood poisoning
blood pressure
blood pudding
blood purge
blood rain
blood red
blood refiner
blood relation
blood relationship
blood relative
blood revenge
blood rite
blood royal
blood sacrifice
blood sausage
blood seller
blood serum
blood sister
blood spavin
blood sport
blood spot
blood strain
blood stream
blood substitute
blood sugar
blood test
blood ties
blood transfusion
blood tree
blood type
blood typing
blood vengeance
blood vessel
blood vine
blood-albumin glue
blood-and-guts
blood-and-thunder
blood-bedabbled
blood-bespotted
blood-besprinkled
blood-boltered
blood-bought
blood-cemented
blood-colored
blood-consuming
blood-defiled
blood-discolored
blood-drenched
blood-drop emlets
blood-drunk
blood-dyed
blood-extorting
blood-faced
blood-filled
blood-fired
blood-flecked
blood-frozen
blood-guilty
blood-gushing
blood-heat
blood-hot
blood-hued
blood-letter
blood-letting
blood-loving
blood-lye salt
blood-mad
blood-money
blood-plashed
blood-polluted
blood-polluting
blood-raw
blood-red
blood-relation
blood-root
blood-scrawled
blood-shaken
blood-shot
blood-shotten
blood-sized
blood-spattered
blood-spavin
blood-stain
blood-stirring
blood-stirringness
blood-stone
blood-strange
blood-suck
blood-sucker
blood-swelled
blood-swoln
blood-tinctured
blood-type
blood-vascular
blood-vessel
blood-warm
blood-wite
blood-won
blood-worm
blood-wort
bloodless operation
bloom-shearing
bloomer girl
bloomer pit
blooming mill
blooming oil
blooming rolls
bloomy-down
blossom blight
blossom bud
blossom withy
blossom-bearing
blossom-billed
blossom-bordered
blossom-crested
blossom-end rot
blossom-faced
blossom-headed
blossom-laden
blossom-nosed
blot in your escutcheon
blot in your scutcheon
blot on your escutcheon
blot on your scutcheon
blot out
blot out your sins
blot up
blotch printing
blotch-shaped
blotting book
blotting case
blotting out
blotting pad
blotting paper
blow a fuse
blow a gasket
blow a horn
blow a hurricane
blow a kiss
blow a safe
blow about
blow accordion
blow away
blow case
blow down
blow for blow
blow great guns
blow hard
blow hot and cold
blow in
blow into
blow it
blow job
blow me down
blow milk
blow mold
blow molding
blow moulding
blow off
blow off steam
blow off the lid
blow on
blow open
blow out
blow over
blow post
blow sky-high
blow snake
blow the bugle
blow the chance
blow the clarion
blow the coals
blow the horn
blow the lid off
blow the tank
blow the trumpet
blow the whistle
blow the whistle on
blow through
blow to
blow to bits
blow to kingdom come
blow to pieces
blow tube
blow up
blow up a storm
blow up the fire
blow upon
blow valve
blow wash
blow your brains out
blow your cool
blow your cover
blow your lines
blow your mind
blow your own horn
blow your own trumpet
blow your stack
blow your top
blow yourself to
blow-
blow-bies
blow-by
blow-by-blow
blow-dry
blow-fly
blow-hard
blow-hole
blow-in
blow-iron
blow-molded
blow-pipe
blow-through
blow-up
blow-wave
blower-up
blowing charge
blowing cylinder
blowing engine
blowing fan
blowing furnace
blowing hot and cold
blowing iron
blowing machine
blowing mold
blowing pipe
blowing tube
blowing up
blown glass
blown over
blown up
blown up out of all proportion
blown-in-the-bottle
blown-mold
blown-molded
blown-out
blown-up
blowout grass
blowout magnet
blowpipe analysis
blowpipe reaction
blubber cask
blubber chopper
blubber fork
blubber grass
blue devil
blue devils
blue dicks
blue dogwood
blue dyer
blue ensign
blue eye
blue false indigo
blue fish
blue flag
blue flash
blue fox
blue funk
blue gas
blue goose
blue gown
blue grama
blue grosbeak
blue ground
blue grouse
blue gum
blue heaven
blue huckleberry
blue in the face
blue iron earth
blue jasmine
blue jay
blue jeans
blue john
blue joke
blue language
blue law
blue laws
blue lily-turf
blue line
blue lips
blue lobelia
blue lotus
blue mangler
blue marguerite
blue marlin
blue mass
blue melilot
blue mill
blue mixer
blue mockingbird
blue mold
blue moon
blue mould
blue movie
blue mud
blue myrtle
blue note
blue ointment
blue onyx
blue pencil
blue penguin
blue peter
blue phlox
blue pickerel
blue pigeon
blue pike
blue pikeperch
blue pill
blue plate
blue point
blue pointer
blue powder
blue presser
blue pressman
blue racer
blue ribband
blue ribbon
blue rockfish
blue ruin
blue runner
blue shark
blue sheep
blue shift
blue sky
blue spirea
blue spruce
blue star grass
blue stellar object
blue stem
blue stone
blue story
blue streak
blue succory
blue thistle
blue tit
blue trucker
blue turquoise
blue velvet
blue verditer
blue vervain
blue vitriol
blue walleye
blue water
blue whale
blue with cold
blue wood aster
blue ynde
blue, the
blue-annealed
blue-aproned
blue-arc phenomenon
blue-backed
blue-banded
blue-bellied
blue-belt
blue-berried
blue-billed
blue-bird
blue-black
blue-blackness
blue-blind
blue-blooded
blue-blossom
blue-bloused
blue-bottle
blue-breasted
blue-breasted darter
blue-brick university
blue-cap
blue-checked
blue-checked
blue-chip
blue-coated
blue-collar
blue-collar worker
blue-colored
blue-crested
blue-cross
blue-cross gas
blue-cross shell
blue-curls
blue-devilage
blue-devilism
blue-eared
blue-eye
blue-eyed
blue-eyed Mary
blue-eyed boy
blue-eyed grass
blue-eyed soul
blue-faced
blue-fish
blue-flowered
blue-footed
blue-fronted
blue-glancing
blue-glimmering
blue-gray
blue-gray gnatcatcher
blue-green
blue-green alga
blue-green algae
blue-green flame
blue-gum leaves
blue-haired
blue-headed
blue-headed vireo
blue-hearts
blue-hot
blue-john
blue-leaved
blue-lined
blue-mantled
blue-molded
blue-molding
blue-mottled
blue-mouthed
blue-nose
blue-nosed
blue-pencil
blue-penciled
blue-penciling
blue-pencilled
blue-pencilling
blue-rayed
blue-red
blue-ribbon
blue-ribbon jury
blue-ribbon panel
blue-ribboner
blue-ribbonism
blue-ribbonist
blue-roan
blue-rolled
blue-sailors
blue-sighted
blue-sky
blue-sky law
blue-slate
blue-spotted
blue-stained
blue-starry
blue-stemmed
blue-stocking
blue-striped
blue-tailed
blue-throated
blue-tinted
blue-tongued
blue-veined
blue-washed
blue-water
blue-water school
blue-wattled
blue-white
blue-winged
blue-winged teal
blue-yellow
blue-yellow blindness
blue-yellow-blind
blueback mullet
blueback salmon
blueback trout
blueberry ash
blueberry cornel
blueberry maggot
blueberry root
blueberry tree
bluebottle fly
bluebrick university
bluecoat boys
bluecoat school
bluefin tuna
bluehead sucker
bluejack oak
blueprint paper
blues singer
blues song
bluethroat pikeblenny
bluewater sailor
bluff formation
bluff off
bluff-bowed
bluff-headed
bluish-green
blunder away
blunder into
blunder on
blunder upon
blunders round about a meaning
blunt-angled
blunt-edged
blunt-ended
blunt-faced
blunt-headed
blunt-leaved
blunt-lobed
blunt-nosed
blunt-pointed
blunt-spoken
blunt-witted
blur circle
blur distinctions
blurred speech
blurred vision
blurring the eyes
blurt out
blush rose
blush unseen
blush up to the eyes
blush-colored
blush-compelling
blush-faced
blush-suffused
blush-tinted
blushing bride
blushing honors
bluster and bluff
bluster into
bluster out of
bo tree
bo-peep
bo-tree
boa constrictor
boa-constrictor
boar dog
boar grunt
boar hunt
boar stag
boar thistle
boar tree
boar-fish
boar-hunting
board and batten
board and board
board and room
board chairman
board check
board chopper
board cloth
board combiner
board company
board cover
board fence
board foot
board game
board liner
board lot
board maker
board measure
board of aldermen
board of commissioners
board of directors
board of education
board of elections
board of estimate
board of health
board of regents
board of supervisors
board of trade
board of trustees
board of visitors
board rack
board room
board rubber
board rule
board scale
board school
board side
board wages
board work
board worker
board-and-roomer
board-and-shingle
board-school
board-wages
boarder-up
boarding house
boarding nettings
boarding officer
boarding pike
boarding ramp
boarding school
boarding-out system
boards, the
boast of
boasting chisel
boat ax
boat bed
boat boy
boat bridge
boat bug
boat chock
boat club
boat crane
boat deck
boat drill
boat falls
boat hand
boat hire
boat hook
boat line
boat livery
boat nail
boat neck
boat neckline
boat pan
boat patch
boat people
boat race
boat seaplane
boat show
boat song
boat spike
boat steerer
boat train
boat truck
boat-bill
boat-billed heron
boat-fly
boat-green
boat-handler
boat-lowering
boat-race
boat-shaped
boat-tailed
boat-tailed grackle
boat-woman
boatswain bird
boatswain's call
boatswain's chair
boatswain's mate
boatswain's pipe
boatswain's stores
bob a curtsy
bob and wheel
bob down
bob for
bob runner
bob skate
bob skates
bob up
bob veal
bob wheel
bob wig
bob wire
bob-cherry
bob-haired
bob-sled
bob-tail
bob-white
bob-wig
bobbery pack
bobbin and fly frame
bobbin barreler
bobbin board
bobbin borer
bobbin boy
bobbin carrier
bobbin chucker
bobbin cleaner
bobbin filler
bobbin lace
bobbin maker
bobbin making
bobbin net
bobbin polisher
bobbin riveter
bobbin shifter
bobbin sinker
bobbin stripper
bobbin tester
bobbin tier
bobbin-net
bobby calf
bobby pin
body curer
body designer
body ease
body erector
body fat
body finisher
body fluid
body former
body forth
body garment
body girth
body gripper
body harness
body heat
body height
body ill
body image
body ironer
body language
body linen
body lining
body loop
body louse
body maker
body mounter
body odor
body of Christ
body of Christians
body of advisers
body of affiliates
body of evidence
body of ideas
body of knowledge
body of law
body of learning
body of retainers
body of the crime
body of theory
body of water
body pain
body physician
body pigment
body plague
body plan
body plasm
body politic
body post
body scent
body servant
body shirt
body shop
body slam
body slave
body snatcher
body snatching
body stealing
body stocking
body suit
body surface
body track
body type
body varnish
body washer
body weight
body white
body whorl
body-breaking
body-build
body-centered
body-centred
body-guard
body-killing
body-line
body-line bowling
body-mind
body-snatching
boeuf a la bourguignon
boeuf bourguignon
bofors gun
bog arum
bog asphodel
bog bean
bog bilberry
bog birch
bog blitter
bog blueberry
bog bull
bog bulrush
bog butter
bog cotton
bog cutting
bog deal
bog down
bog earth
bog featherfoil
bog fern
bog gale
bog garden
bog gentian
bog glede
bog grass
bog hay
bog hop
bog in
bog iron
bog iron ore
bog jumper
bog lemming
bog lime
bog manganese
bog mine
bog mold
bog moss
bog myrtle
bog nut
bog oak
bog onion
bog orchid
bog orchis
bog ore
bog peat
bog pimpernel
bog pine
bog pink
bog plant
bog rhubarb
bog rose
bog rosemary
bog rush
bog spavin
bog spruce
bog stalker
bog star
bog stitchwort
bog strawberry
bog timber
bog torch
bog trefoil
bog turf
bog violet
bog whortleberry
bog willow
bog-bred
bog-down
bog-eyed
bog-hoose
bog-iron ore
bog-rush
bog-trot
bog-trotter
bogey hole
bogey man
bogey-hole
boggle-dy-botch
bogie engine
bogie roll
bogus money
bohemian bob
bohemian brethren
bohr theory
bohun upas
boil away
boil down
boil off
boil over
boil smut
boil up
boil-off
boiled dinner
boiled dressing
boiled eggs
boiled meat
boiled oil
boiled shirt
boiled sweet
boiler alarm
boiler blower
boiler cleaner
boiler compound
boiler coverer
boiler factory
boiler fitter
boiler fixer
boiler flue
boiler head
boiler horsepower
boiler inspector
boiler iron
boiler plate
boiler room
boiler scale
boiler shell
boiler shop
boiler suit
boiler tenter
boiler tube
boiler tuber
boiler-cleaning
boiler-off
boiler-out
boiler-testing
boiler-washing
boilermaker's hammer
boiling chip
boiling over
boiling point
boiling process
boiling spring
boiling stone
boiling water
boiling-house
boiling-point constant
boiling-water reactor
bois de vache
bois-brl
boite de nuit
bok choy
bold as a lion
bold as brass
bold conjecture
bold face
bold front
bold hand
bold ignorance
bold imagination
bold relief
bold stroke
bold-beating
bold-face
bold-faced
bold-facedly
bold-facedness
bold-following
bold-looking
bold-minded
bold-spirited
boldo family
boletic acid
boll hull
boll rot
boll weevil
bollard timber
bollix up
bollixed up
bolly cotton
bolo punch
bolo-bolo
bologna sausage
bolster plate
bolster up
bolt action
bolt auger
bolt boat
bolt chisel
bolt down
bolt forger
bolt from the blue
bolt hole
bolt hook
bolt in
bolt knife
bolt maker
bolt of lightning
bolt out of the blue
bolt rope
bolt strake
bolt the door
bolt threader
bolt upright
bolt upsetter
bolt-action
bolt-action rifle
bolt-cutting
bolt-forging
bolt-head
bolt-hole
bolt-pointing
bolt-rope
bolt-shaped
bolt-threading
bolt-turning
bolter-down
bolter-up
bolters-down
bolters-up
bolting cloth
bolting house
bolting hutch
bolting tub
bolus alba
bomah nut
bomahnut oil
bomb bay
bomb calorimeter
bomb ketch
bomb lance
bomb out
bomb plane
bomb rack
bomb release
bomb run
bomb shelter
bomb site
bomb thrower
bomb tube
bomb vessel
bomb-ketch
bomb-proof
bomb-shell
bomb-throwing
bombaje palm
bombanassa palm
bombardier beetle
bombardment emission
bombardment rocket
bombardment squadron
bombardment weapons
bombastic person
bombay duck
bombe glacee
bomber jacket
bomber pilot
bombing locator
bombing machine
bombing mission
bombing run
bombing sap
bon ami
bon appetit
bon chretien
bon gre mal gre
bon jour
bon mot
bon soir
bon ton
bon vivant
bone bleacher
bone boiler
bone breccia
bone brown
bone cartilage
bone carver
bone cell
bone char
bone charcoal
bone china
bone conduction
bone corpuscle
bone crusher
bone cutter
bone dust
bone earth
bone fat
bone forceps
bone glass
bone grinder
bone heap
bone house
bone idle
bone jack
bone lace
bone meal
bone mill
bone of contention
bone of my bones
bone oil
bone pain
bone phosphate
bone pitch
bone plombe
bone polisher
bone porcelain
bone pot
bone precipitate
bone shark
bone sorter
bone spavin
bone spirit
bone tallow
bone tankage
bone tar
bone to pick
bone turquoise
bone up
bone waste
bone whale
bone white
bone yard
bone-ace
bone-breaking
bone-bred
bone-bruising
bone-carving
bone-chilling wind
bone-crushing
bone-dry
bone-dryness
bone-eater
bone-grinding
bone-hard
bone-idle
bone-lace
bone-laced
bone-lazy
bone-piercing
bone-rotting
bone-setter
bone-tired
bone-weary
bone-white
bone-wort
bonehead into it
bonehead play
bonehead trick
bongo drum
bonheur-du-jour
bonheurs-du-jour
bonne amie
bonne bouche
bonne foi
bonne nuit
bonnes amies
bonnes bouches
bonnet glass
bonnet gourd
bonnet grass
bonnet laird
bonnet limpet
bonnet macaque
bonnet monkey
bonnet pepper
bonnet piece
bonnet rouge
bonnet shark
bonnet shell
bonnet skate
bonnet top
bonnet-headed
bonnethead shark
bonnets rouges
bonny-clabber
bons amis
bons mots
bons vivants
bont tick
bonus issue
bonus system
bony fish
bony labyrinth
boo at
boo-boo
boo-boos
boob stunt
boob tube
booby gannet
booby hatch
booby hutch
booby prize
booby trap
booby-trap
booby-trapped
booby-trapping
boodle bag
boogie-woogie
book account
book agent
book burning
book canvasser
book card
book clamp
book clasp
book cloth
book club
book collecting
book collector
book corner
book cover
book credit
book debt
book end
book stamp
book stitcher
book support
book table
book tile
book token
book tray
book truck
book value
book wagon
book-case
book-craft
book-fed
book-fell
book-flat
book-folder
book-keeper
book-keeping
book-latin
book-leaf trachea
book-learned
book-learning
book-lined
book-lore
book-loving
book-maker
book-match
book-minded
book-plate
book-read
book-sewer
book-sewing
book-stealer
book-stitching
book-taught
book-ways
book-wing
book-wise
book-work
book-worm
booking agent
booking clerk
booking hall
booking office
bookish person
booklet leaf
booklet pane
books of account
boot needle
boot out
boot polish
boot polisher
boot powder
boot socks
boot spur
boot stretcher
boot the
boot top
boot tree
boot-cleaning
boot-hale
boot-leg
boot-topping
booted and spurred
booting out
bootlace worm
bootle-blade
bootleg liquor
bootleg play
bootleg sucker
bootless errand
boots and all
boots and saddles
booze fighter
booze up
booze-up
bor-
borage family
borax bead
borax carmine
borax glass
borax honey
borax pentahydrate
borax usta
bord gate
bord-and-pillar
bord-land
bord-lode
bordeaux mixture
border ballads
border ground
border irrigation
border light
border line
border on
border pen
border service
border stone
border terrier
border upon
border world
border-land
bordering on
bordering upon
borderline case
bore bit
bore meal
bore out of all patience
bore out of your life
bore stiff
bore to death
bore to distraction
bore to extinction
bore to tears
boreal blast
bored stiff
bored to death
bored to extinction
bored to tears
boric acid
boring bar
boring block
boring head
boring journal
boring machine
boring mill
boring pain
boring person
boring rod
boring tool
boring tube
born again
born before your time
born days
born fool
born for
born in Poland
born leader
born on itself
born out of wedlock
born to the purple
born under a bad sign
born under a lucky star
born under an evil star
born within sound of Bow bells
born yesterday
borne out
borning day
bornyl acetate
bornyl alcohol
bornyl formate
boro-
boron carbide
boron counter
boron nitride
borosilicic acid
borough council
borough english
borough reeve
borough-English
borough-English
borough-holder
borough-man
borough-master
borough-reeve
borough-town
borracha entrefina
borracha fina
borracha grossa
borrow pit
borrow the loan of
borrow trouble
borrowed plumes
borrowed stock
borrowed time
borrowed word
borrower's card
borrowing capacity
borrowing days
borrowing power
borsch circuit
borscht belt
borscht circuit
borstal boy
borstal institution
borstal school
boskop man
bosom bar
bosom buddy
bosom friend
bosom friendship
bosom ironer
bottle glass
bottle gourd
bottle grass
bottle green
bottle heath
bottle imp
bottle in
bottle jack
bottle jaw
bottle kiln
bottle labeler
bottle labeling
bottle maker
bottle mold
bottle molder
bottle nose
bottle opener
bottle ore
bottle palm
bottle party
bottle pool
bottle rinser
bottle screw
bottle slider
bottle soaker
bottle sterilizer
bottle stopper
bottle sucker
bottle swallow
bottle tit
bottle tree
bottle turning
bottle up
bottle washer
bottle-assed type
bottle-bellied
bottle-blowing
bottle-brush
bottle-brush buckeye
bottle-buttocked
bottle-capping
bottle-carrying
bottle-cleaning
bottle-corking
bottle-fed
bottle-feed
bottle-filling
bottle-gas stove
bottle-green
bottle-head
bottle-holder
bottle-nose
bottle-nosed
bottle-nosed dolphin
bottle-nosed whale
bottle-o
bottle-rinsing
bottle-shaped
bottle-soaking
bottle-sterilizing
bottle-tailed
bottle-tight
bottle-washer
bottle-washing
bottled gas
bottled in bond
bottlenose dolphin
bottlenose oil
bottlenose whale
bottling up
bottling works
bottom boards
bottom bolt
bottom canch
bottom disease
bottom dog
bottom dollar
bottom drawer
bottom fermentation
bottom gear
bottom glade
bottom grass
bottom heat
bottom house
bottom ice
bottom land
bottom line
bottom line, the
bottom of the barrel
bottom of the heart
bottom of the sea
bottom on
bottom out
bottom plate
bottom price
bottom rake
bottom rot
bottom round
bottom sawyer
bottom side
bottom side up
bottom stope
bottom tool
bottom up
bottom water
bottom waters
bottom yeast
bottom-dump bucket
bottom-road bridge
bottom-set
bottoming hole
bottoming out
bottoming tap
bottomless depths
bottomless pit
bottomless purse
bottomry bond
bottoms up
bottoms up!
botulismus toxin
boudoir cap
boudoir chair
boudoir dress
boudoir photograph
bough-pot
bought note
bought ready-to-wear
bougie decimale
bouillon cube
bouillon cup
bouillon spoon
bouillotte lamp
bouillotte table
boulder bast
boulder belt
boulder clay
boulder fern
boulder flat
boulder gravel
boulder raspberry
boulder train
boulder-stone
boulder-strewn
bouldering stone
bourbon rose
bourbon whiskey
bourbon whisky
bourdon lace
bourgeois gentilhomme
bourgeois taste
bouton pearl
bouts-rimes
bovine animal
bovine trichomoniasis
bovine vaccine
bovver boots
bow and arrow
bow and scrape
bow back
bow bearer
bow bells
bow brace
bow cap
bow chaser
bow chasing
bow collector
bow compass
bow divider
bow down
bow down and worship
bow down before
bow drill
bow dye
bow fast
bow file
bow front
bow hair
bow hand
bow legs
bow light
bow line
bow maker
bow net
bow oar
bow out
bow pen
bow pencil
bow pulpit
bow rudder
bow saw
bow stiffener
bow submission
bow the head
bow thistle
bow tie
bow to
bow to your will
bow trolley
bow wave
bow weight
bow window
bow your head
bow-and-quarter line
bow-back
bow-back chair
bow-backed
bow-beaked
bow-bearer
bow-bell
bow-bending
bow-compass
bow-draught
bow-dye
bow-dyer
bow-hand
bow-houghd
bow-iron
bow-legged
bow-less
bow-necked
bow-net
bow-shaped
bow-spring compass
bow-street
bow-string
bow-window
bow-windowed
bow-wow
bowed down
bowed-down
bowel movement
bowel-hive grass
bowels of compassion
bowels of mercy
bowels of the earth
bower anchor
bower plant
bower-bird
bowhead bird
bowie knife
box iron
box jig
box junction
box keel
box key
box kite
box level
box lid
box loom
box maker
box metal
box midge
box myrtle
box nail
box nailer
box nut
box oak
box of cigarettes
box of cigars
box off
box office
box on the ear
box opener
box oyster
box pew
box plait
box plaider
box plaighting
box pleat
box poison
box press
box respirator
box room
box scald
box scene
box score
box seat
box set
box settle
box sextant
box shooal
box shop
box shutter
box sill
box sleigh
box spanner
box spring
box springs
box stair
box stall
box staple
box stew
box stool
box stove
box strap
box stretcher
box strike
box string
box tail
box taler
box tenon
box the compass
box the ears
box toe
box tool
box tortoise
box trap
box tree
box truck
box turtle
box up
box valve
box waggon
box wagon
box wrench
box-bordered
box-branding
box-calf
box-cleating
box-covering
box-edged
box-elder aphid
box-elder bug
box-haul
box-leaved
box-locking
box-nailing
box-office
box-plaited
box-shaped
box-strapping
box-top mission
box-tree
box-trimming
box-turning
boxed cornice
braced arch
braced frame
bracelet tie
bracelet wood
brachialis anticus
brachio-
brachio-cephalic
brachisto-
brachy-
bracken sickness
bracket capital
bracket clock
bracket crab
bracket foot
bracket fungus
bracket plate
bracket saw
bracket trail
bracketed blenny
bract scale
brad punch
brady-
brag about
brag yourself up
braid bonnet
braid fern
braid wool
braided rope
braided stream
brain box
brain cactus
brain case
brain cavity
brain cell
brain cells
brain child
brain coral
brain damage
brain death
brain disease
brain drain
brain fag
brain fever
brain nerve
brain power
brain sand
brain specialist
brain stem
brain storm
brain surgery
brain teaser
brain trust
brain truster
brain tumor
brain twister
brain vesicle
brain wash
brain washing
brain wave
brain waves
brain-begot
brain-born
brain-breaking
brain-bred
brain-child
brain-cracked
brain-crazed
brain-crumpled
brain-damaged
brain-fever bird
brain-fevered
brain-fretting
brain-injured
brain-purging
brain-smoking
brain-spattering
brain-spun
brain-strong
brain-teaser
brain-tire
brain-trust
brain-wash
brain-washing
brains trust
brainstone coral
brake assembler
brake band
brake bar
brake beam
brake block
brake chain
brake chute
brake clevis
brake compartment
brake cylinder
brake drum
brake examiner
brake fitter
brake fluid
brake gear
brake hanger
brake harrow
brake horsepower
brake hose
brake lever
brake light
brake lining
brake maker
brake meter
brake operator
brake parachute
brake pedal
brake pipe
brake power
brake repairer
brake rod
brake shoe
brake spring
brake stripper
brake tester
brake valve
brake van
brake wheel
brake-testing
brake-van
braking parachute
braking power
braking ratio
bramble finch
bramble rose
bramble shark
bramble worm
bran boil
bran drench
bran duster
bran mash
bran steep
bran tub
bran-deer
bran-new
branch bank
branch banking
branch bar
branch circuit
branch cut
branch depot
branch gap
branch grass
branch herring
branch line
branch mark
branch of knowledge
branch of learning
branch of service insignia
branch of study
branch of the service
branch off
branch office
branch officer
branch out
branch point
branch trace
branch water
branch wilt
branch-bearing
branch-building
branch-charmed
branch-climber
branch-embellished
branch-rent
branch-strewn
branched chain
branches of
branches of medicine
branchial arch
branchial cleft
branchial groove
branching off
branching out
branchio-
branchiostegal ray
brand goose
brand iron
brand-goose
brand-mark
brand-new
brand-newness
brand-spanking new
branding iron
brandy Alexander
brandy and soda
brandy ball
brass-eyed
brass-finishing
brass-fitted
brass-footed
brass-fronted
brass-handled
brass-headed
brass-hilted
brass-hooved
brass-lined
brass-melting
brass-mounted
brass-plated
brass-renting
brass-shapen
brass-smith
brass-tipped
brass-visaged
brass-wind instrument
brass-working
brattice cloth
brave face
brave front
brave person
brave show
brave west winds
brave-horsed
brave-looking
brave-minded
brave-sensed
brave-showing
brave-souled
brave-spirited
brave-spiritedness
braze-jointed
brazen boldness
brazen it out
brazen law of wages
brazen out
brazen through
brazen-barking
brazen-browed
brazen-clawed
brazen-colored
brazen-face
brazen-faced
brazen-facedly
brazen-fisted
brazil nut
brazil wood
brazing alloy
bre kekekekex
breach of contract
breach of faith
breach of friendship
breach of law
breach of privilege
breach of promise
breach of public trust
breach of the peace
breach of trust
breach the law
bread and butter
bread and water
bread and wine
bread bag
bread baker
bread beetle
bread bin
bread corn
bread crumb
bread crumber
bread crust
bread cutter
bread flour
bread grain
bread knife
bread line
bread maker
bread mold
bread mould
bread pan
bread plate
bread pudding
bread rack
bread sauce
bread slicer
bread stick
bread stuff
bread toaster
bread tray
bread tree
bread wheat
bread wrapper
bread-and-butter
bread-and-butter model
bread-and-butter pickle
bread-baking
bread-basket
bread-corn
bread-crumb
bread-crumbing
bread-crust bomb
bread-cutting
bread-eating
bread-faced
bread-fruit
bread-liner
bread-stitch
bread-stuff
bread-tree
bread-winner
bread-wrapping
breadth extreme
breadth index
breadth molded
break Priscian's head
break a lance with
break a strike
break and entry
break away
break back
break bean
break boundary
break bounds
break bread
break bread with
break bulk
break camp
break cover
break down
break down and confess
break down and cry
break even
break faith
break flour
break for
break forth
break free
break front
break ground
break in
break in on
break in the market
break in upon
break into
break into a smile
break into music
break into pieces
break into smithereens
break iron
break it off
break it to
break it up
break jail
break jaws
break joint
break lathe
break line
break loose
break no bones
break of
break of day
break of serve Tennis
break off
break off combat
break on the wheel
break open
break out
break out a flag
break out ballast
break out in a rash
break out in a sweat
break out the anchor
break out with
break pin
break point
break prison
break sheer
break shock
break silence
break step
break the back of
break the back of something
break the bank
break the charm
break the fall
break the habit
break the ice
break the law
break the neck of
break the news
break the pattern
break the peace
break the record
break the seal
break the sound barrier
break the spell
break the thread
break the trail
break through
break to harness
break to pieces
break to smitherens
break up
break van
break water
break wind
break with
break with the past
break you up
break your back
break your bonds
break your chains
break your eyes away
break your fast
break your fetters
break your heart
break your heart over
break your neck
break your promise
break your word
break yourself away
break-
break-back
break-circuit
break-down
break-even
break-even point
break-front
break-in
break-neck
break-off
break-promise
break-through
break-up
breakaway group
breakbone fever
breakdown lights
breakdown of authority
breakdown van
breakdown voltage
breaker card
breaker strip
breaker-down
breaker-off
breaker-up
breakers ahead
breakeven chart
breakfast bacon
breakfast bell
breakfast food
breakfast knife
breakfast nook
breakfast plate
breakfast room
breakfast set
breakfast table
breakfast time
breaking and entering
breaking down
breaking engine
breaking joint
breaking load
breaking loose
breaking off of negotiations
breaking out
breaking piece
breaking plough
breaking plow
breaking point
breaking strength
breaking up
breaking water
breaking-in
breast-fed
breast-feed
breast-feeding
breast-high
breast-hook
breast-plate
breast-plough
breast-rending
breast-wheel
breasting knife
breastwork log
breath glide
breath group
breath of air
breath of life
breath of your nostrils
breath test
breath-bereaving
breath-blown
breath-giving
breath-stopping
breath-sucking
breath-tainted
breath-taking
breathe again
breathe down your neck
breathe easier
breathe easily
breathe easy
breathe fire and fury
breathe freely
breathe hard
breathe heavily
breathe in
breathe life into
breathe more freely
breathe new life into
breathe out
breathe the air of freedom
breathe vengeance
breathe your last
breather pipe
breathing apparatus
breathing capacity
breathing hole
breathing mark
breathing place
breathing pore
breathing space
breathing spell
breathing stress
breathing time
breathless adoration
breathless awe
breathless impatience
breathless wonder
breathy voice
bred in the bone
bred-in-the-bone
breech action
breech birth
breech bolt
breech delivery
breech mechanism
breech piece
breech pin
breech plug
breech screw
breech sight
breech-loader
breech-loading
breechblock plunger
breeches buoy
breeches money
breeches part
breeches pipe
breeching body
breeching loop
breeching strap
breed in and in
breed true
breeder reactor
breeder tulip
breeding ground
breeding place
breeding plumage
breeding sore
breeds of
breeds of cats
breeds of cattle
breeds of chickens
breeds of dogs
breeds of horses
breeds of sheep
breeds of swine
breeze along
breeze block
breeze box
breeze burner
breeze carrier
breeze concrete
breeze filler
breeze fly
breeze in
breeze into
breeze loader
breeze oven
breeze picker
breeze plant
breeze riddler
breeze tallyman
breeze up
breeze washer
breeze wheeler
breeze-borne
breeze-fanned
breeze-lifted
breeze-shaken
breeze-swept
breeze-wooing
brent goose
brent-new
brepho-
brest summer
bret-full
breu-
breve rest
brevet d'invention
brevi manu
brevi-
brewer's yeast
briar pipe
briar-hopper
bribe broker
bribe money
bribe-devouring
bribe-free
bribery and corruption
bribery oath
bric-a-brac
bric-a-brackery
brick arch
brick archer
brick ax
brick beam
brick burner
brick carrier
brick cheese
brick chipper
brick chisel
brick clay
brick cutter
brick drier
brick dust
brick earth
brick factory
brick hammer
brick hod
brick machine
brick machinist
brick mold
brick molder
brick nog
brick nogging
brick oven
brick paver
brick pointer
brick press
brick presser
brick red
brick sorter
brick stamp
brick stitch
brick tea
brick trimmer
brick trowel
brick wall
brick wheeler
brick-barred
brick-bound
brick-building
brick-built
brick-burning
brick-colored
brick-cutting
brick-drying
brick-dust
brick-dust deposit
brick-earth
brick-field
brick-fronted
brick-grinding
brick-hemmed
brick-kiln
brick-nogged
brick-paved
brick-red
brick-testing
brick-walled
bricklayer's hammer
bricks and mortar
bridal hymn
bridal outfit
bridal saddle
bridal suite
bridal wreath
bride and groom
bride duck
bride price
bride-ale
bride-cup
bride-lace
bride-to-be
bridge bar
bridge between
bridge bird
bridge bracket
bridge circuit
bridge coupler
bridge crane
bridge deck
bridge engineer
bridge engineering
bridge fluting
bridge grafting
bridge guard
bridge house
bridge islet
bridge joint
bridge lamp
bridge lock
bridge maker
bridge money
bridge over
bridge passage
bridge pewee
bridge piece
bridge rail
bridge seat
bridge sign
bridge stay
bridge stone
bridge table
bridge tower
bridge train
bridge wall
bridge whist
bridge-house
bridle bar
bridle bridge
bridle cable
bridle chain
bridle gate
bridle hand
bridle iron
bridle joint
bridle part
bridle path
bridle port
bridle rein
bridle road
bridle rod
bridle stricture
bridle tape
bridle trail
bridle up
bridle way
bridle wire
bridle-wise
brief bag
brief case
brief of title
brief span
brief success
brier bamboo
brier bush
brier rose
brier stitch
brig-rigged
brigade major
brigadier general
brigadier generals
bright and early
bright and fair
bright and shining
bright and sunny
bright color
bright days
bright diffuse nebula
bright eyes
bright idea
bright light
bright lights
bright outlook
bright prospect
bright rose
bright sentinels of the sky
bright side
bright smile
bright thought
bright wanderer
bright with promise
bright wool
bright young man
bright's disease
bright-bloomed
bright-cheeked
bright-colored
bright-dyed
bright-eyed
bright-eyed and bushy-tailed
bright-faced
bright-featured
bright-field
bright-flaming
bright-haired
bright-headed
bright-hued
bright-leaved
bright-line spectrum
bright-minded
bright-robbed
bright-spotted
bright-striped
bright-studded
bright-tinted
bright-witted
brighten up
brightline spectrum
brightness equation
brightness temperature
brill's disease
brilliant cut
brilliant idea
brilliant light
brilliant success
brilliant-cut
brim over
brimming eyes
brimstone acid
brimstone butterfly
brimstone yellow
brindled gnu
brine fly
brine gauge
brine pan
brine pit
brine pump
brine pumper
brine shrimp
brine worm
brine-bound
brine-cooler
brine-cooling
brine-dripping
brine-pumping
brine-soaked
brinell hardness
brinell number
bring a case before the bar
bring a case before the court
bring about
bring about a detente
bring accusation
bring action against
bring around
bring back
bring back to the memory
bring bad luck
bring balm to your sorrow
bring before
bring before the public
bring by the lee
bring by the wind
bring charges
bring crashing down
bring down
bring down about your ears
bring down around your ears
bring down the house
bring down the sun
bring down upon
bring down upon one
bring down upon you
bring down upon your head
bring down upon yourself
bring face to face with
bring forth
bring forward
bring glad tidings
bring home the bacon
bring home to
bring in
bring in a verdict
bring in a verdict of not guilty
bring in an indictment
bring in question
bring in the wind
bring into analogy
bring into being
bring into comparison
bring into court
bring into discredit
bring into existence
bring into focus
bring into play
bring into question
bring into relation with
bring into the limelight
bring into the open
bring into the wind
bring into the world
bring into view
bring low
bring near
bring off
bring off the wind
bring on
bring on the wind
bring out
bring out in bold relief
bring out in high relief
bring out in strong relief
bring over
bring pressure to bear upon
bring reason to bear
bring round
bring shame upon
bring suit
bring the anchor home
bring the mind to bear upon
bring through
bring to 
b bring to a happy issue 
b bring to a head 
b bring to a stand 
b bring to a standstill 
b bring to a stop 
b bring to account 
b bring to an end 
b bring to an understanding 
b bring to attention 
b bring to bay 
b bring to bear 
b bring to bear upon 
b bring to birth 
b bring to book 
b bring to completion 
b bring to effect 
b bring to fruition 
b bring to justice 
b bring to life 
b bring to light 
b bring to maturity 
b bring to mind 
b bring to naught 
b bring to nothing 
b bring to notice 
b bring to nought 
b bring to pass 
b bring to reason 
b bring to recollection 
b bring to ruin 
b bring to tears 
b bring to terms 
b bring to test 
b bring to the bar 
b bring to the block 
b bring to the boiling point 
b bring to the fore 
b bring to the front 
b bring to the gallows 
b bring to trial 
b bring to view 
b bring to your notice 
b bring to your senses 
b bring together 
b bring trouble 
b bring tumbling down 
b bring under the hammer
bring under your notice
bring up
bring up by hand
bring up for investigation
bring up short
bring up the rear
bring up to date
bring up to date
bring upon
bring upon yourself
bring word
bring you back to earth
bring you down
bring you to your knees
bring you up short
bring-and-buy sale
bringer-up
bringing back to earth
bringing forth
bringing in
bringing into disorder
bringing into question
bringing of charges
bringing out
bringing to book
bringing to fruition
bringing to light
bringing to the ground
bringing together
bringing-up
brise-soleil
brisk market
brisket disease
bristle cell
bristle fern
bristle grass
bristle moss
bristle picker
bristle rat
bristle up
bristle with
bristle worm
bristle-faced
bristle-grass
bristle-pointed
bristle-pointed oat
bristle-stalked
bristle-tailed
bristle-thighed
bristle-thighed curlew
bristle-toothed
bristlecone fir
bristlecone pine
bristlewort family
bristling with arms
bristly foxtail grass
bristly sarsaparilla
britannia metal
britannia ware
british english
brittany spaniel
brittle as glass
brittle fern
brittle star
brittle-star
brix scale
broach post
broach spire
broach to
broach turner
broad accent
broad arrow
broad as the world
broad awake
broad bean
broad church
broad comedy
broad day
broad daylight
broad gage
broad gauge
broad glass
broad grin
broad hatchet
broad hint
broad humor
broad in the beam
broad jump
broad jumper
broad lines
broad mind
broad of beam
broad on the beam
broad on the bow
broad on the quarter
broad pendant
broad reach
broad seal
broad side foremost
broad spectrum
broad-arrow
broad-axe
broad-backed
broad-based
broad-beamed
broad-bean weevil
broad-billed
broad-bladed
broad-blown
broad-bodied
broad-bosomed
broad-bottomed
broad-boughed
broad-bowed
broad-breasted
broad-brim
broad-brimmed
broad-built
broad-chested
broad-chinned
broad-crested
broad-eared
broad-eyed
broad-faced
broad-flapped
broad-fronted
broad-gage
broad-gaged
broad-gauge
broad-gauge person
broad-gauged
broad-guage
broad-handed
broad-headed
broad-hoofed
broad-horned
broad-jump
broad-leafed
broad-leaved
broad-leaved bottle tree
broad-leaved maple
broad-limbed
broad-lipped
broad-listed
broderie anglaise
brogue hole
broil n
broiler house
broiling sun
broken accents
broken arch
broken chord
broken circuit
broken coal
broken color
broken dose
broken fortune
broken ground
broken heart
broken home
broken in
broken line
broken lot
broken marriage
broken mirror
broken off
broken pediment
broken record
broken speech
broken thread
broken to harness
broken tones
broken voice
broken water
broken wind
broken-arched
broken-backed
broken-bellied
broken-check
broken-down
broken-ended
broken-footed
broken-fortuned
broken-handed
broken-headed
broken-hearted
broken-heartedly
broken-heartedness
broken-hipped
broken-hoofed
broken-in
broken-kneed
bronze-gleaming
bronze-golden
bronze-haired
bronze-purple
bronze-shod
bronze-winged
bronze-yellow
bronzed diabetes
bronzed grackle
brood above
brood bud
brood cell
brood chamber
brood gemma
brood mare
brood matron
brood nest
brood over
brood patch
brood pouch
brooder house
broody coop
broody hen
brook bean
brook betony
brook celandine
brook feather
brook lamprey
brook lobelia
brook mink
brook mint
brook no
brook no denial
brook pimpernel
brook runner
brook silk
brook sunflower
brook tongue
brook trout
broom birch
broom brush
broom clover
broom corn
broom crowberry
broom cypress
broom goosefoot
broom grass
broom handle
brown bent
brown bess
brown betty
brown bill
brown bread
brown bullhead
brown butter
brown canker
brown coal
brown coat
brown creeper
brown george
brown gravy
brown hackle
brown heart
brown hematite
brown hyena
brown lung disease
brown madder
brown man
brown of dusk
brown off
brown out
brown race
brown rat
brown recluse spider
brown rice
brown rot
brown sauce
brown snake
brown soap
brown spot
brown stem rot
brown study
brown sugar
brown swiss
brown thrasher
brown thrush
brown trout
brown-armed
brown-backed
brown-banded
brown-barreled
brown-bearded
brown-berried
brown-colored
brown-complexioned
brown-eyed
brown-eyed Susan
brown-faced
brown-green
brown-haired
brown-headed
brown-leaved
brown-locked
brown-nose
brown-nosed
brown-noser
brown-nosing
brown-purple
brown-red
brown-roofed
brown-sailed
brown-skinned
brown-sleeve
brown-spotted
brown-state
brown-stemmed
brown-strained
brown-tail moth
brown-tailed
brown-washed
browned off
browned-off
brownian motion
brownian movement
browning solution
browning trowel
brownish-red
brownish-yellow
brownstone front
browsing room
bruit about
bruited about
bruited about
brumbo pulley
brunch coat
brunch-word
brush ape
brush apple
brush aside
brush ax
brush back
brush borer
brush boring
brush box
brush breaker
brush bronzewing
brush broom
brush by
brush case
brush cherry
brush coating
brush cut
brush deal
brush deer
brush discharge
brush drag
brush driller
brush drilling
brush fashioner
brush fiber
brush filler
brush fire
brush hand
brush harrow
brush heap
brush holder
brush hook
brush kangaroo
brush keeper
brush maker
brush myrtle
brush off
brush on paint
brush ore
brush pile
brush polisher
brush puller
brush rabbit
brush sawyer
brush scythe
brush shunt
brush stick
brush stock
brush trimmer
brush turkey
brush turner
brush up
brush up on
brush varnisher
brush wheel
brush wolf
brush yoke
buck-stall
buck-tooth
buck-toothed
buck-washing
bucker-up
bucket about
bucket bench
bucket brigade
bucket carrier
bucket conveyer
bucket down
bucket dredge
bucket hook
bucket hooker
bucket ladder
bucket maker
bucket orchid
bucket out
bucket pump
bucket rope
bucket seat
bucket shop
bucket snapper
bucket up
bucket well
bucket wheel
bucket-eyed
bucket-shaped
bucket-shop
buckeye rot
buckhorn brake
buckhorn plantain
buckhorn sight
bucking board
bucking bronco
bucking hammer
bucking kier
bucking plate
buckle bobber
buckle burnisher
buckle chain
buckle coverer
buckle down
buckle down to
buckle finisher
buckle forger
buckle into
buckle maker
buddy-boy
buddy-buddy
budge bachelor
budge barrel
budge-barrel
budget account
budget items
budget of news
budget plan
budget prices
buenas noches
buenos dias
buff Orpington
buff coat
buff leather
buff nor stye
buff stick
buff top
buff wheel
buff, the
buff-backed
buff-bare
buff-breasted
buff-citrine
buff-colored
buff-orange
buff-tipped
buff-washed
buff-yellow
buffalo apple
buffalo berry
buffalo bird
buffalo bug
buffalo bur
buffalo bush
buffalo carpet beetle
buffalo chips
buffalo cholera
buffalo cloth
buffalo clover
buffalo cod
buffalo currant
buffalo dance
buffalo disease
buffalo fish
buffalo fly
buffalo gnat
buffalo gourd
bugger off
bugger up
buggered up
bugging machine
buggy cultivator
buggy plow
bugle call
bugle corps
bugle horn
bugle-horn
bugle-weed
bugloss cowslip
bugs on
buhl clock
build a fire
build a house of cards
build castles in the air
build in
build into
build on
build the stately rime
build up
build up a stock
build up an inventory
build your house upon a rock
build-up
builder's knot
building anchor
building and loan association
building block
building blocks
building code
building construction
building contractor
building cradle
building inspector
building iron
building law
building lease
building line
building lot
building material
building mover
building paper
building permit
building rigger
building slip
building society
building surveyor
building trade
building trades
built for comfort
built like a brick shithouse
built on sand
built-in
built-up
built-up mast
bukk-
bulb angle
bulb bar
bulb fly
bulb iron
bulb keel
bulb mite
bulb plate
bulb rectifier
bulb rot
bulb scale
bulb-tee
bulbo-
bulbo-urethral
bulbourethral gland
bulbous bow
bulbous buttercup
bulbous crowfoot
bulbous-rooted
bulge hoop
bulging purse
bulk large
bulk line
bulk mail
bulk modulus
bulk out
bulk up
bulk-material conveyor
bulk-pile
bulkhead deck
bulkhead in
bulkhead line
bulky color
bull account
bull apple
bull bait
bull band
bull bay
bull birch
bull bit
bull block
bull brier
bull buttercup
bull chain
bull cook
bull daisy
bull dike
bull ditcher
bull donkey
bull dust
bull dyke
bull earing
bull fiddle
bull float
bull gear
bull grape
bull grass
bull gun
bull header
bull horn
bull in a china shop
bull kelp
bull mackerel
bull market
bull mastiff
bull meat
bull moose
bull neck
bull net
bull nettle
bull nose
bull oak
bull peep
bull pen
bull pine
bull plum
bull point
bull pool
bull press
bull pump
bull quartz
bull raid
bull rattle
bull redfish
bull ring
bull riveter
bull rope
bull session
bull shark
bull snake
bull stag
bull stretcher
bull terrier
bull the market
bull thistle
bull tongue
bull train
bull trout
bull wheel
bull's nose
bull's-eye
bull's-eye lantern
bull's-eye mirror
bull's-eye rot
bull's-eye squall
bull's-eyed
bull's-eyes
bull-
bull-bait
bull-baiter
bull-baiting
bull-bearing
bull-beggar
bull-bitch
bull-bragging
bull-browed
bull-dog
bull-dose
bull-faced
bull-fight
bull-frog
bull-fronted
bull-god
bull-grip
bull-headed
bull-horn
bull-horn acacia
bull-like
bull-man
bull-mastiff
bull-mouthed
bull-necked
bull-nosed
bull-nosed bow
bull-roarer
bull-roaring
bull-run
bull-running
bull-terrier
bull-tongue
bull-tongued
bull-tonguing
bull-trout
bull-voiced
bull-whack
bull-whip
bulla tympani
bullace grape
bulldog ant
bulldog bat
bulldog clip
bulldog courage
bulldog edition
bulldog forceps
bulldog pipe
bulldog spear
bulldog tenacity
bulldog wrench
bullen nail
bullen-bullen
bullet bolt
bullet catch
bullet compass
bullet hawk
bullet maker
bullet money
bullet screw
bullet shell
bullet tree
bullet wood
bullet-head
bullet-hole
bullet-resisting glass
bulletin board
bulletproof vest
bullhead kelp
bullhead lily
bullhead shark
bulling bar
bullion balance
bullion fringe
bullion lace
bullion melter
bullion point
bullion smelter
bullion stitch
bullion market
bullish prices
bullit grape
bullnose header
bullnose step
bullnose stretcher
bullnose tool
bullock block
bullock cart
bullock heart
bullock's heart
bullock's-heart
bullshit artist
bully beef
bully tree
bully-off
bully-rock
bulrush millet
bulwark plating
bum a ride
bum around
bum steer
bum's rush
bum's rush, the
bum-
bumble-bee
bumble-puppy
bumblebee coot
bumblebee hawk moth
bumblebee root
bump against
bump ball
bump heads
bump into
bump joint
bump off
bump start
bump up
bump-off
bump-start
bumper bag
bumper beam
bumper car
bumper crop
bumper guard
bumper jack
bumper spring
bumper sticker
bumping bag
bumping hammer
bumping post
bumping race
bumping-off
bumpy ash
bun fight
bun foot
bun ochra
bunch bean
bunch evergreen
bunch grape
bunch grass
bunch light
bunch oyster
bunch peanut
bunch pink
bunch plum
bunch together
bunch up
bunch-backed
bunch-word
buncher resonator
bunchflower family
bunchy top
bunco artist
bunco game
bunco steerer
bunder boat
bundle away
bundle branch
bundle branch block
bundle browning
bundle burial
bundle of His
bundle of isoglosses
bundle off
bundle out
bundle pillar
bundle sheath
bundle up
bundle work
bundle-rooted
bundu bashing
bung start
bung up
bung-full
bungalow tent
bunghole oil
bungup and bilge-free
bunji-bunji
bunk bed
bunk chain
bunk fence
bunker coal
bunker oil
bunko artist
bunko steerer
bunny brown
bunny girl
bunny hop
bunny hug
bunny rabbit
bunsen burner
bunt glut
bunter dog
bunting crow
bunting iron
bunting lark
buntingline cloth
bunya-bunya
buon fresco
buon giorno
buona notte
buona sera
buono fresco
buoy boat
buoy up
buoy-tender
buoyancy force
buoyant force
buoyant market
buoyant mine
buoyed up
buoyed-up
bu prestid beetle
bur artichoke
bur chervil
bur clover
bur cucumber
bur gherkin
bur grass
bur marigold
bur oak
bur parsley
bur reed
bur sage
bur thistle
bur vervain
bur-reed
buratto lace
burble point
burd-alone
burden adjustment
burden of care
burden of expenditure
burden of proof
burden stitch
burden the memory
burden the mind
burden the mind with
burden with
burdened with debt
burdened with sorrow
burdock grass
bureau company
bureau of investigation
bureau system
bureaucratic delay
burg-bryce
burgess-ship
burgh-english
burghal-penny
burglar alarm
burglary insurance
burial at sea
burial case
burial chamber
burial customs
burial ground
burial jar
burial mound
burial peal
burial place
burial service
burial tree
burial urn
burial vault
burial yard
burial-ground
burial-place
buried in
buried in oblivion
buried in thought
buried treasure
burlesque act
burlesque queen
burlesque show
burlesque theater
burly-boned
burly-faced
burly-headed
burmanna family
burmese cat
burn a hole in your pocket
burn at the stake
burn blue
burn daylight
burn down
burn in
burn in effigy
burn in your pocket
burn off
burn on
burn out
burn the candle at both ends
burn the midnight oil
burn to
burn to a cinder
burn to ashes
burn to death
burn to the ground
burn up
burn up your mortgage
burn with curiosity
burn with love
burn you up
burn your boats
burn your bridges
burn your fingers
burn yourself out
burn-
burn-ing
burn-beat
burn-nose
burn-nose bark
burn-the-wind
burn-up
burned down
burned out
burned to the ground
burned-out
burned-over
burner gas
burner-off
burnet bloodwort
burnet clover
burnet moth
burnet rose
burnet saxifrage
burning at the stake
burning bush
burning ember
burning ghat
burning glass
burning hot
burning issue
burning mirror
burning mountain
burning oil
burning out
burning pain
burning point
burning question
burning rage
burning shame
burning spot
burning up
burning with curiosity
burning with excitement
burning-bush
burning-glass
burning-in tool
burning-wood
burnished-gold
burnishing die
burnt Italian earth
burnt Roman ocher
burnt ale
burnt almond
burnt almonds
burnt carmine
burnt cork
burnt crimson lake
burnt lake
burnt lime
burnt line
burnt ocher
burnt offering
burnt orange
burnt rose
burnt sienna
burnt umber
burnt up
burnt-child
burnt-out
burnt-umber
burnt-up
burp gun
burr chisel
burr-pump
burr-stone
burras-pipe
burrel fly
burrel shot
burrel-fly
burrel-shot
burring machine
burro deer
burro-back
burrow duck
burrow-duck
burrowing blenny
burrowing owl
burrows-town
burst forth
burst in
burst into bloom
burst into flame
burst into laughter
burst into song
burst into tears
burst like a bubble
burst like a thunderbolt
burst like a thunderclap
burst of applause
burst of laughter
burst of light
burst of rain
burst of speed
burst on the ear
burst out
burst out laughing
burst the bubble
burst upon
burst upon one
burst upon the view
burst with
burst with energy
burst with health
burst with laughter
burst-cow
bursting at the seams
bursting charge
bursting of the bubble
bursting out
bursting point
bursting strength
bursting to
bursting with happiness
bursting with health
bury the hatchet
bury the tomahawk
bury your head in the sand
bury yourself in
burying beetle
burying ground
burying place
burying-ground
burying-place
bus bar
bus boy
bus conductor
bus driver
bus girl
bus line
bus rod
bus shelter
bus stop
bush baby
bush basil
bush bean
bush broom
bush canary
bush cat
bush cinquefoil
bush clover
bush coat
bush country
bush cow
bush cranberry
bush disease
bush doe
bush dog
bush dove
bush flying
bush forest
bush fruit
bush goat
bush grape
bush hammer
bush harrow
bush hawk
bush honeysuckle
bush hook
bush house
bush huckleberry
bush jacket
bush lark
bush lawyer
bush league
bush leaguer
bush lot
bush maple
bush marrow
bush metal
bush morning-glory
bush nut
bush oak
bush oyster
bush parole
bush pea
bush pepper
bush pig
bush pilot
bush poppy
bush pumpkin
bush quail
bush rat
bush rice grass
bush robin
bush scythe
bush shrike
bush sickness
bush soul
bush swamp
bush tamarind
bush tea
bush telegraph
bush tit
bush trefoil
bush up
bush vetch
bush warbler
bush wren
bush-fighter
bush-grown
bush-haired
bush-hammer
bush-harrow
bush-head
bush-headed
bush-league
bush-ranger
bush-rope
bush-shrike
bush-skirted
bush-tailed
busheled iron
bushy aster
bushy-bearded
bushy-browed
bushy- eared
bushy-haired
bushy-headed
bushy-legged
bushy-tailed
bushy-whiskered
bushy-wigged
business English
business affairs
business agent
business arithmetic
business at hand
business car
business card
business chemistry
business college
business correspondence
business cycle
business deal
business dealings
business directory
business district
business double
business education
business end
business establishment
business ethics
business fluctuations
business index
business interruption insurance
business is business
business jet
business law
business leader
business letter
business life insurance
business machine
business paper
business pass
business relations
business reply card
business reply envelope
business school
business section
business suit
business transaction
business unionism
businessman’s bounce
businessman’s trip
busman’s holiday
buss the clouds
busser-in
bust a gut
bust hammer
bust in
bust out
bust up
bust your ass
bust-up
bustamente furnace
bustard quail
bustle pipe
busy Lizzie
busy as a beaver
busy as a bee
busy bee
busy signal
busy yourself
busy yourself with
busy-brained
busy-fingered
busy-headed
busy-idle
busy-tongued
but breath and shadow
butt knuckle
butt leather
butt lifter
butt on
butt out
butt packer
butt plate
butt puller
butt roller
butt rot
butt saw
butt shaft
butt shooting
butt sling
butt strap
butt striker
butt weld
butt welding
butt-headed
butt-in
butt-stock
butter ale
butter basket
butter bean
butter blender
butter boat
butter carrier
butter chip
butter clam
butter color
butter cooler
butter cress
butter crock
butter cutter
butter daisy
butter dealer
butter dipper
butter dish
butter dock
butter duck
butter firkin
butter grinder
butter kit
butter knife
butter maker
butter merchant
butter mold
butter muslin
butter of arsenic
butter of zinc
butter oil
butter packer
butter pat
butter pear
butter pick
butter plate
butter plum
butter print
butter roller
butter salve
butter sauce
butter server
butter shop
butter spreader
butter tooth
butter tree
butter tub
butter up
butter weight
butter yellow
butter your bread on both sides
butter-and-egg man
butter-and-eggs
butter-billed
butter-box
butter-bump
butter-colored
butter-cutting
butter-fingered
butter-mouthed
butter-nut
butter-print
butter-rigged
butter-rose
butter-smooth
butter-toothed
butterboat-bill
butterboat-billed
buttercup family
buttercup yellow
buttered eggs
buttered rum
butterfly agama
butterfly bomb
butterfly bush
butterfly chair
button-eared
button-fastening
button-headed
button-hold
button-holder
button-hole
button-sewing
button-shaped
button-slitting
button-tufting
buttoner-up
buttonhead rivet
buttonhole stitch
buttonwood shrub
buttress pier
buttress root
buttress thread
buttress tower
butts and bounds
butty lark
butyl alcohol
butyl aldehyde
butyl group
butyl oxalate
butyl radical
butyl-chloral
butylene group
butylene radical
butyr-
butyric acid
butyric ether
butyro-
butyryl group
butyryl radical
buy a piece of
buy a pig in a poke
buy a share of
buy and sell
buy at a bargain
buy at cost
buy at wholesale prices
buy back
buy boat
buy dirt cheap
buy for a mere nothing
buy for a song
buy for nickels and dimes
buy in
buy in futures
buy into
buy it
buy off
buy on credit
buy on the cuff
buy on the installment plan
buy out
buy time
buy up
buyer four
buyer resistance
buyer ten
buyer's strike
buyers' market
buyers' strike
buying and selling
buying in
buying option
buying power
buying right
buying up
buzz about
buzz along
buzz bomb
buzz off
buzz planer
buzz saw
buzz session
buzz track
buzz word
buzzard clock
buzzard curlew
buzzard grass
by a fluke
by a great deal
by a hair
by a jot
by a long chalk
by a long shot
by a long way
by a nose
by a piece of luck
by a side door
by a side wind
by a strong arm
by a whit
by accident
by acclamation
by agent
by airmail
by airplane
by all manner of means
by all means
by all odds
by an ace
by an iota
by and by
by and large
by any chance
by any manner of means
by any means
by any possibility
by auction
by authority of
by birth
by bits and pieces
by brute force
by bus
by cable
by cards
by catches
by categories
by chance
by choice
by command
by common consent
by common report
by comparison with
by consensus
by contraries
by cracky
by degrees
by design
by destiny
by dint of
by disposition
by divisions
by ear
by easy stages
by election
by express
by eyeball
by fair means or foul
by far
by fits
by fits and starts
by foot
by force
by force of arms
by force of habit
by forced marches
by freight
by general consent
by good fortune
by guess and by God
by half
by half measures
by halves
by hand
by hazard
by heart
by his lane
by hit and miss
by hook or by crook
by hook or crook
by horse
by ill hap
by ill luck
by inches
by inchmeal
by installments
by instinct
by interpretation
by intervals
by intuition
by itself
by jerks
by land
by law
by leaps and bounds
by little and little
by long odds
by mail
by main force
by marriage
by me
by means of
by memory
by merest chance
by my halidom
by name
by nature
by necessity
by night
by no manner of means
by no means
by odds
by one
by order
by ordinary
by parol
by parts
by preference
by proxy
by quarters
by rail
by reason of
by reason of that
by reflex
by remote control
by request
by return mail
by right
by rights
by rote
by rule of thumb
by sea
by sections
by sight
by skips
by slow degrees
by snatches
by some means
by special delivery
by speech or action
by stages
by stealth
by steamer
by storm
by stress of
by suffrage
by surprise
by telegraph
by temperament
by the act of
by the agency of
by the aid of
by the board
by the book
by the by
by the bye
by the clock
by the good offices of
by the lee
by the logic of character
by the logic of temperament
by the numbers
by the people
by the rules of logic
by the run
by the same sign
by the same token
by the side of
by the skin of your teeth
by the stern
by the sweat of your brow
by the way
by the way of
by the wind
by this time
by transfer
by trial and error
by tricks
by trolley
by turns
by two
by types
by use of
by virtue of
by virtue of mind-set
by vote
by water
by way of
by way of example
by way of hypothesis
by way of opposition
by way of parenthesis
by what means
by what mode
by what name
by whatever name
by wholesale
by word of mouth
by your leave
by your lonesome
by your own petard
by yourself
by-
by-alley
by-altar
by-and-by
by-and-large
by-bid
by-bidder
by-bidding
by-blow
by-boat
by-channel
by-child
by-chop
by-cock
by-common
by-corner
by-day
by-dependency
by-design
by-doing
by-doing-by-drinking
by-drinking
by-dweller
by-effect
by-election
by-end
by-fellow
by-fellowship
by-form
by-gold
by-hour
by-interest
by-issue
by-job
by-land
by-lane
by-law
by-lead
by-line
by-live
by-matter
by-motive
by-name
by-office
by-pass
by-pass capacitor
by-pass condenser
by-passage
by-passed
by-passer
by-passing
by-past
by-path
by-paths
by-place
by-play
by-plot
by-product
by-product oven
by-purpose
by-reaction
by-respect
by-result
by-road
by-room
by-route
by-sitter
by-speech
by-spel
by-stake
by-street
by-stroke
by-talk
by-term
by-the-bye
by-the-way
by-thing
by-throw
by-thrust
by-time
by-tone
by-track
by-trail
by-turning
by-view
by-walk
by-walking
by-wash
by-water
by-way
by-west
by-wipe
by-wood
by-word
by-work
by-your-leave
bye-blow
bye-bye
bye-byes
bye-election
bye-low
bye-stake
bye-turn
bye-water
bye-wood
bygone days
bygone times
bypass burner
bypass condenser
bypass engine
bypass ratio
bypaths and crooked ways
byre-man
byre-men
byword of reproach
c & b
c battery
c clef
c ration
c'est autre chose
c'est bien
c'est ca
c'est la guerre
c'est la vie
c'est selon
c-axes
c-axis
c-horizon
c-mitosis
c/-
cS
c a canny
c a sa
c a' canny
c a'-thro'
c a'ing-whale
c a-ca
c aing whale
cab fare
cab hire
cabana set
cabaret tax
cabbage aphis
cabbage bark
cabbage bug
cabbage butterfly
cabbage lettuce
cabbage moth
cabbage palm
cabbage palmetto
cabbage repeatedly
cabbage root fly
cabbage rose
cabbage tree
cabbage white
cabbage-leaf miner
cabbage-root maggot
cabbage-tree
cabbage-tree hat
cabbageing press
cabin boat
cabin boy
cabin camp
cabin car
cabin class
cabin court
cabin cruiser
cabin deck
cabin hook
cabin plane
cabin tent
cabin-class
cabinet beetle
cabinet cherry
cabinet member
cabinet minister
cabinet picture
cabinet pudding
cabinet scraper
cabinet wine
cabinet-maker
cable address
cable bend
cable buoy
cable car
cable crane
cable length
cable molding
cable railroad
cable railway
cable release
cable road
cable ship
cable stitch
cable television
cable tramway
cable's length
cable-car
cable-laid
cable-stitch
cabriole leg
cac-
cacao bean
cacao butter
cache-cache
cachectic fever
cachou de Laval
cack-handed
caco-
caco-zeal
cocoa bean
cacodyl group
cacodyl radical
cacodylic acid
cacoethes scribendi
cactus alkaloid
cactus dahlia
cactus family
cactus geranium
cactus wren
caddie bag
caddie car
caddie cart
caddis bait
caddis case
caddis fly
caddis worm
caddy spoon
cadency mark
cadet blue
cadet cloth
cadet gray
cadet grey
cadge a ride
cadmium bronze
cadmium carmine
cadmium cell
cadmium green
cadmium orange
cadmium poisoning
cadmium red
cadmium standard cell
cadmium sulfide
cadmium sulphate
cadmium sulphide
cadmium vermilion
cadmium yellow
cae-
caen-
caen-stone
caesarian section
cesium clock
cafe au lait
cafe chantant
cafe concert
cafe dansant
cafe noir
cafe society
cafe-society
caffoy paper
cag-handed
cage antenna
cage bird
cage zone melting
cager-on
caging knob
cainca root
cahoun palm
caiman lizard
cain law
caiiper-callie
cairn tangle
cairn terrier
cairn-headed
caisson body
caisson disease
caisson limber
cajeput oil
caju rains
cajuput oil
cake baker
cake eater
cake flour
cake griddle
cake make-up
cake maker
cake pan
cake-eater
cake-mixing
caked breast
caked lac
cakes and ale
caking coal
calaba tree
calabar bean
calabar-bean
calabash nutmeg
calabash tree
calabur tree
calamander wood
calamine blue
calamine brass
calamint balm
calamity howler
calamondin orange
calamus oil
calc-
calc-aphanite
calc-sinter
calc-spar
calc-tufa
calc-tuff
calcaneocuboid ligament
calcarea-
calcareous tufa
calce-scence
calci-
calcined baryta
calcined lime
calcio-
calcium arsenate
calcium bisulphite
calcium carbide
calcium carbonate
calcium caseinate
calcium chloride
calcium creosotate
calcium cyanamide
calcium cyanide
calcium cyclamate
calcium cyclohexylsulfamate
calcium dibromobehenate
calcium fluoride
calcium hydrate
calcium hydroxide
calcium hypochlorite
calcium iodobehenate
calcium lactate
calcium lamp
calcium light
calcium nitrate
calcium oxide
calcium oxych
calcium oxychloride
calcium permanganate
calcium phosphate
calcium propionate
calcium soap
calcium sulfide
calcium sulphate
calcium sulphite
calco-
calculate on
calculate upon
calculate your position
calculated deception
calculated distortion
calculated risk
calculated to
calculating machine
calculus of differences
calculus of finite differences
calculus of individuals
calculus of pleasure
calculus of variations
caldo verde
caldron bottom
calendar art
calendar clock
calendar day
calendar maker
calendar month
calendar of bills
calendar stone
calendar watch
calendar year
calendar-making
calenture of the brain
calf feed
calf leather
calf love
calf's brains
calf's head
calf's liver
calf's tongue
calf's-foot
calf's-foot jelly
calf-skin
cali-
caliatour wood
caliber compass
calibrated scale
calibrating circuit
calibrating terminal
calibrating unit
calico ash
calico aster
calico bass
calico bug
calico bush
calico cat
calico clam
calico crab
calico flower
calico pony
calico printing
calico scale
calico tree
california laurel
california poppy
california rosebay
caliper compass
caliper gauge
caliper rule
caliph willow
calisaya bark
calk weld
call a break
call a halt
call a halt to
call a recess
call a spade a spade
call a strike
call all bets off
call an intermission
call attention to
call away
call back
call back yesterday
call bell
call bird
call box
call card
call down
call down curses on the head of
call down evil upon
call for
call for help
call forth
call girl
call heads or tails
call heaven to witness
call house
call in
call in question
call into being
call into existence
call into play
call into question
call it a day
call it quits
call letters
call loan
call mark
call market
call money
call names
call number
call of duty
call off
call on
call on the carpet
call on the phone
call on you for
call option
call out
call over
call price
call rate
call sign
call slip
call spirits from the vasty deep
call the play
call the roll
call the shots
call the signals
call the tune
call the turn
call time
call time-out
call to
call to account
call to active duty
call to arms
call to mind
call to notice
call to order
call to quarters
call to the colors
call to witness
call together
call up
call up spirits
call upon
call upon you for
call upon you to
call your bluff
call your own
call your shot
call your shots
call-back pay
call-board
call-down
call-fire
call-in pay
call-off
call-out
call-over
call-up
calla green
calla lily
calla-
callable bond
callable securities
callcedra wood
called for
called home
called on
calli-
calling a spade a spade
calling before the mind’s eye
calling card
calling crab
calling forth
calling party
calling to the mind’s eye
calling-down
calling-over
calliope hummingbird
calliper compasses
calliper rule
calliper splint Med
callis sand
callis-sand
callithumpian band
calloidal convolution
calloidal gyrus
calm acceptance
calm and free
calm as a mill pond
calm before the storm
calm disposition
calm down
calm mind
calm of mind
calm weather
calm yourself
calm-eyed
calm-minded
calm-throated
calming hand
calo-
calomel electrode
calore sore
calorie chart
calorie counter
calorie engine
calorie-counting
calorific value
calorimeter bomb
calumet dance
calvary cross
calyx drill
calyx spray
calyx teeth
calyx tube
cam chain
cam cleat
cam contactor
cam engine
cam press
cam squeezer
cam switch
cam wheel
cam-contactor switch
cam-cutting machine
cam-wood
camadula seed
camera tube
camera tubes
camera-eye
camera-ready copy
camera-shy
camino real
caminos reales
camomile oil
camp ball
camp bed
camp bird
camp car
camp ceiling
camp chair
camp circle
camp color
camp disease
camp fever
camp fire girl
camp flux
camp follower
camp hospital
camp it up
camp meeting
camp on the trail of
camp out
camp robber
camp root
camp royal
camp sheathing
camp site
camp stove
camp trailer
camp-fight
camp-meeting
camp-out
camp-shedding
camp-shot
camp-site
campaign book
campaign button
campaign chair
campaign chest
campaign commitments
campaign contribution
campaign dinner
campaign for
campaign fund
can jacket
can key
can liner
can not
can of worms
can opener
can plug
can press
can sealer
can solderer
can sterilizer
can such things be
can system
can washer
can you beat that
can you feature that
can't be avoided
can't be helped
can't complain
can't help
can't keep from
can-beading
can-boxing
can-buoy
can-burnishing
can-can
can-capping
can-cleaning
can-closing
can-crimping
can-dock
can-filling
can-flanging
can-heading
can-hook
can-labeling
can-lacquering
can-lining
can-marking
can-opener
can-opening
can-polishing
can-quaffing
can-salting
can-scoring
can-sealing
can-seaming
can-slitting
canceled type
cancellation clause
cancellation law
cancer cell
cancer eye
cancer jalap
cancer parasite
cancer stick
cancrinite-syenite
cancrum oris
candelabra lamp holder
candelabra plant
candelabrum tree
candelilla wax
candid camera
candid photograph
candid photography
candied apple
candle alder
candle anemone
candle auction
candle bearer
candle cactus
candle case
candle end
candle ends
candle fly
candle gleam
candle grease
candle hour
candle larkspur
candle lumen
candle mold
candle molder
candle paper
candle plant
candle power
candle rush
candle shade
candle snuff
candle snuffer
candle tree
candle tube
candle wicking
candle-beam
candle-bearing
candle-branch
candle-dipper
cane killer
cane knife
cane mill
cane osier
cane palm
cane piece
cane press
cane rat
cane reed
cane rush
cane rust
cane seat
cane seating
cane splicer
cane sugar
cane syrup
cane trash
cane weaver
cane webbing
cane withy
cane-backed
cane-bottomed
cane-phorus
cane-seated
canebrake rattler
canebrake rattlesnake
canella alba
canella bark
canella-bark family
cangica-wood
canicola fever
canicular days
canine appetite
canine distemper
canine leptospirosis
canine madness
canine tooth
canine typhus
canis major
canis minor
canister shot
canker bloom
canker blossom
canker lettuce
canker rash
canker rose
canker sore
canker violet
canker-bit
canker-bitten
canker-eaten
canker-hearted
canker-mouthed
canker-toothed
cankerworm of care
canna family
canna-down
cannabis indica
cannabis resin
canned foods
canned goods
canned heat
canned show
cannel coal
cannel-bone
cannon ball
cannon bit
cannon bone
cannon cracker
cannon curl
cannon fodder
cannon metal
cannon off
cannon pinion
cannon shot
cannon stove
cannon-ball
cannon-ball fruit
cannon-ball tree
cannon-proof
cannon-royal
cannon-shot
cannonball express
cannot choose but
cannot do otherwise
cannot help but
canoe adz
canoe birch
canoe burial
canoe cedar
canoe gum
canoe tent
canoe yacht
canoe yawl
canon bit
canon form
canon law
canon lawyer
canon regular
canonical age
canonical books
canonical form
canonical hour
canonical hours
canonical prayers
canonical writings
canonized mortal
canons regular
canopic jar
canopy of heaven
canopy switch
cant across
cant block
cant body
cant chisel
cant dog
cant file
cant frame
cant hook
cant molding
cant purchase
cant ribband
cant round
cant spar
cant strip
cant timber
canted column
canterbury bell
cantharid luster
cantharides cerate
cantilever bridge
cantilever foundation
cantilever spring
canting arms
canting coat
canting hypocrite
canting quoin
cantle bar
canto fermo
cantocanto fermo
canton blue
canton crepe
canton flannel
canton ginger
cantorial side
cantus figuratus
cantus firmus
cantus planus
canvas baster
canvas board
canvas dam
canvas dresser
canvas maker
canvas primer
canvas quilter
canvas shoe
canvas stitch
canvas stitcher
canvas stitching
canvas work
canvas worker
canvas-back
canvas-covered
canvasback duck
canyon gooseberry
canyon grape
canyon live oak
canyon wind
canyon wren
cap and bells
cap and gown
cap bolt
cap cell
cap cloud
cap flashing
cap fungus
cap gun
cap in hand
cap jib
cap maker
cap nut
cap octavo
cap of darkness
cap of dignity
cap of estate
cap of maintenance
cap paper
cap piece
cap pistol
cap rhymes
cap rock
cap screw
capillary electrometer
capillary potential
capillary pyrites
capillary tube
capillary water
capital account
capital accounts
capital asset
capital assets
capital bonus
capital budget
capital city
capital crime
capital expenditure
capital fellow
capital gain
capital gains
capital gains distribution
capital gains tax
capital goods
capital investment
capital joke
capital levy
capital loss
capital market
capital operation
capital punishment
capital ship
capital stock
capital stock n
capital structure
capital style
capital styles
capital sum
capital surplus
capital transfer tax
capitalist economy
capitalistic economy
capitalistic system
capitalization issue
capitalize on
capitate bone
capitation grant
capitation tax
capo tasto
capoor cutchery
cappa magna
capped elbow
carap nut
carap oil
carap tree
carap wood
carapa nut
carapa oil
carapa tree
carapa wood
carat grain
carat grains
caravan boiler
caraway oil
caraway seed
caraway seeds
caraway-seed fern
carb-
carbamate insecticide
carbamic acid
carbazotic acid
carbo-
carbo-hydrate
carbocyclic compound
carbolic acid
carbolic oil
carbon 14
carbon arc
carbon bisulfide
carbon bisulphide
carbon black
carbon copy
carbon cycle
carbon dating
carbon diamond
carbon dichloride
carbon dioxide
carbon dioxide snow
carbon disulfide
carbon disulphide
carbon fibre
carbon flame
carbon knock
carbon lamp
carbon light
carbon microphone
carbon monoxide
carbon oxide
carbon oxychloride
carbon paper
carbon paper n
carbon pencil
carbon point
carbon process
carbon silicide
carbon spot
carbon star
carbon steel
carbon sulphochloride
carbon telephone
carbon tet
carbon tetrachloride
carbon tissue
carbon transfer
carbon transmitter
carbon trichloride
carbon tube
carbon- dating
carbon-14 dating
carbon-dioxide foam
carbon-dioxide recorder
carbon-dioxide snow
carbonated water
carbonic acid
carbonic acid gas
carbonic anhydride
carbonic-acid gas
carbonium ion
carbonization process
carbonyl chloride
carbonyl group
carbonyl radical
carborundum cloth
carboxyl group
carboxyl radical
carboxylic acid
carbro process
carbureted-hydrogen gas
carburetor altitude control
carcass beef
carcass flooring
carcass roofing
carcin-
carcinogenic substance
card bends
card brushe

card case
card catalog
card catalogue
card cheating
card cleaner
card cloth
card clothier
card clothing
card compass
card cutter
card doffer
card drawer
card dresser
card end
card ender
card feeder
card fettler
card field
card file
card filler
card game
card games
card gatherer
card grinder
card index
card ledger
card magnetic compass
card measurer
card parer
card punch
card reader
card roller
card setter
card sorter
card strip
card stripper
card table
card teasel
card tenter
card thistle
card tray
card up your sleeve
card vote
card voting
card winder
card wire
card writer
card-carrier
card-carrying
card-carrying Communist
card-carrying member
card-counting
card-cut
card-cutting
card-devoted
card-index
card-perforating
card-printing
card-setting machine
card-sorting
cardamom oil
carder bee
cardi-
cardiac arrest
cardiac cycle
cardiac epilepsy
cardiac glucoside
cardiac glycoside
cardiac hormone
cardiac infarction
cardiac insufficiency
cardiac neurosis
cardiac output
cardiac pacemaker
cardiac shock
cardiac stenosis
cardiac tamponade
cardiac thrombosis
cardigan jacket
cardigan sweater
cardinal archbishop
cardinal beetle
cardinal bird
cardinal bishop
cardinal climber
cardinal cloth
cardinal deacon
cardinal dean
cardinal fish
cardinal flower
cardinal grosbeak
cardinal humour
cardinal number
cardinal numeral
cardinal point
cardinal points
cardinal priest
cardinal red
care-tired

care-tuned

care-wounded

career building

career diplomat

career girl

career man

career politics

career soldiers

careers master

careful consideration

carefully ignore

careless abandon

caress the ear

cargo boat

cargo carrier

cargo checker

cargo clerk

cargo cluster

cargo coal

cargo cult

cargo dock

cargo handler

cargo lighter

cargo liner

cargo mast

cargo mill

cargo plane

cargo reflector

cargo ship

cargo transport

cargo worker

caribou moss

caricature plant

caring fair

carking care

carl hemp

carline thistle

carline wife

carload lot

carload rate

carmine crabapple

carmine lake

carnage trade

carnal abuse

carnal delight

carnal desire

carnal knowledge
carriage maker
carriage making
carriage paid
carriage painter
carriage piece
carriage pole
carriage porch
carriage rider
carriage road
carriage searcher
carriage seat
carriage setter
carriage shackle
carriage shaft
carriage shed
carriage spring
carriage springer
carriage step
carriage strap
carriage top
carriage trade
carriage trimmer
carriage trimming
carriage washer
carriage way
carriage wheel
carriage works
carriage wrench
carriage-free
carrick bend
carrick bitt
carrick bitts
carrick head
carried away
carried by acclamation
carrier amplifier
carrier bag
carrier courier
carrier fighter
carrier frequency
carrier pigeon
carrier ring
carrier shell
carrier snail
carrier suppression
carrier wave
carrier-based plane
carrier-current system
carrier-free
carrier-pigeon
carriers of
carrion beetle
carrion buzzard
carrion crow
carrion flower
carrion fly
carrion fungus
carrion hawk
carron oil
carrot beetle
carrot eating
carrot family
carrot fern
carrot orange
carrot pudding
carrot red
carrot rust fly
carrot soft rot
carrot tree
carrot-colored
carrot-head
(carrot-headed
carrot-pated
(carrot-shaped
carrot-top
carry a card
carry a tune
carry all before one
carry all before you
carry arms
carry authority
carry away
carry back
carry back in recollection
carry bag
carry by storm
carry coals to Newcastle
carry conviction
carry forward
carry in your thoughts
carry into effect
carry into execution
carry it
carry lee helm
carry off
carry on
carry on a business
carry on a conversation
carry on a propaganda
carry on a trade
carry on an inquiry
carry on business
carry on hostilities
carry on over
carry on something scandalous
carry on war
carry on your books
carry out
carry out the anchor
carry over
carry sail
carry the
carry the ball
carry the banner of
carry the day
carry the mail
carry through
carry to
carry to completion
carry to excess
carry too far
carry too much sail
carry weather helm
carry weight
carry you off your feet
carry young
carry your point
carry your thoughts back
carry yourself
carry-all
carry-back
carry-forward
carry-in
carry-log
carry-on
carry-over
carry-tale
carrying a fetus
carrying an embryo
carrying arms
carrying capacity
carrying charge
carrying cost
carrying distance
carrying out
carrying place
carrying through
carrying trade
carrying-on
carrying-out
carryings-on
carse deposit
cart aver
cart away
cart driver
cart horse
cart ladder
cart leather
cart maker
cart off
cart road
cart rope
cart track
cart wheel
cart whip
cart-rutted
cart-track plant
cart-wheel
cartage contractor
carte blanche
carte d'entrée
carte de visite
carte du jour
carte-de-visite
cartel ship
cartes blanches
cartes de visite
cartes du jour
cartesian coordinate
cartilage bone
cartilage cell
cartilage pit
cartilaginous fish
cartilaginous quittor
carton of cigarettes
carton-pierre
cartridge annealer
cartridge bag
cartridge belt
cartridge blocker
cartridge box
cartridge brass
cartridge buff
cartridge case
cartridge clip
cartridge filler
cartridge fuse
cartridge gauge
cartridge heater
cartridge loader
cartridge loading
cartridge maker
cartridge making
cartridge paper
cartridge pen
cartridge primer
cartridge priming
carve out
carve up
carve your way
carvel joint
carvel work
carvel-built
carvel-planked
carving fork
carving knife
cary-
caryo-
casaba melon
casagha pine
casca bark
cascade amplification
cascade connection
cascade control
cascade converter
cascade method
cascade screen
cascade system
cascade transformer
cascade-connect
cascara amarga
cascara buckthorn
cascara sagrada
cascarilla bark
cascarilla oil
case bay
case binding
case bolt
case bottle
case card
case count
case ending
case furniture
case glass
case goods
case grammar
case gun
case hammer
case harden
case hardening
case history
case in point
case in question
case knife
case law
case lawyer
case made
case method
case of need
case of nerves
case oil
case phrase
case record
case shot
case springs
case stake
case study
case system
case tablet
case the
case work
case worker
case-bearer
case-bound
case-harden
case-hardened
case-hardened steel
case-knife
case-shot
case-weed
case-worker
case-worm
cased book
cased glass
casein glue
casein paint
casein plastic
casemaking clothes moth
casement cloth
casement door
casement window
caser-in
cash account
cash advance
cash assets
cash audit
cash basis
cash capital
cash carrier
cash clerk
cash contract
cash credit
cash crop
cash customer
cash desk
cash discount
cash dividend
cash down
cash drawer
cash flow
cash in
cash in hand
cash in on
cash in your checks
cash in your chips
cash journal
cash letter
cash line
cash money
cash on delivery
cash on the barrelhead
cash on the nail
cash payment
cash price
cash purchase
cash railway
cash ratio
cash register
cash remittance
cash reserves
cash sale
cash store
cash supply
cash surrender value
cash tenant
cash terms
cash up
cash value
cash-and-carry
cash-book
cash-refund annuity
cashed up
cashew apple
cashew bird
cashew family
cashew lake
cashew nut
cashier's check
cashmere shawl
cashmere sweater
casing cutter
casing dog
casing head
casing knife
casing nail
casing shoe
casing spear
casing splitter
casing spool
casing swab
casing-head gas
casing-head gasoline
casing-in
casinghead gas
casino pink
cask marker
cask-shaped
cassava wood
casse paper
casse-tete
casserole fish
cassia bark
cassia bud
cassia fistula
cassia flask
cassia lignea
cassia nut
cassia oil
cassia pod
cassia pods
cassia pulp
cassia tree
cassia-bark tree
cassia-stick tree
cassie paper
cassiopeia's chair
cassowary tree
cast a ballot
cast a glance
cast a gloom over
cast a gloom upon
cast a horoscope
cast a laggen-gird
cast a nativity
cast a pall upon
cast a reproach upon
cast a shadow
cast a slur on
cast a slur upon
cast a spell
cast a traverse
cast about
cast about for
cast anchor
cast aside
cast aspersions on
cast at
cast away
cast back
cast blame upon
cast coquettish glances
cast down
cast envious eyes
cast forth
cast gear
cast in a different mold
cast in prison
cast in the eye
cast in the same mold
cast in your lot with
cast in your teeth
cast into hell
cast iron
cast light upon
cast loose
cast lots
cast naked upon the naked earth
cast of characters
cast of countenance
cast of the dice
cast off
cast on
cast out
cast out devils
cast pearls before swine
cast plastic
cast plow
cast reflection upon
cast reflections on
cast reproach upon
cast scrap
cast sheep's eyes at
cast steel
cast the evil eye
cast the eyes back
cast the eyes on
cast the eyes over
cast the eyes upon
cast the first stone
cast the gorge
cast the lead
cast their shadows before
cast to the dogs
cast to the winds
cast up
cast up accounts
cast your bread upon the waters
cast your eye
cast your eyes down
cast your fortune
cast your hook
cast your net
cast your vote
cast your vote for
cast-back
cast-by
cast-iron
cast-iron-plant
cast-me-down
cast-off
cast-steel
cast-weld
castana nut
caste mark
caste-ridden
castellated beam
castellated nut
caster sugar
caster-off
castile soap
casting away
casting bottle
casting box
casting couch
casting counter
casting director
casting down
casting line
casting lots
casting net
casting on
casting table
casting voice
casting vote
casting wax
casting weight
casting wheel
casting your ballot
castle ditch
castle earth
castle gate
castle gilliflower
castle in Spain
castle in spain
castle in the air
castle in the skies
castle in the sky
castle nut
castle top
castle town
castle wall
castle-builder
castle-building
castle-built
castle-buttressed
castle-crowned
castle-guard
castle-guarded
castoff skin
castor aralia
castor bean
castor cake
castor gray
castor oil
castor pomace
castor seed
castor sugar
castor tree
castor wheel
castor-bean
castor-bean meal
castor-bean tick
castor-oil plant
castration complex
castrator mine
casual acquaintance
casual clothes
casual discovery
casual dress
casual house
casual laborer
casual remark
casual suit
casual ward
casual water
casualty insurance
casualty list
casualty ward
casualty-evacuation plane
casus belli
cat and dog
cat and mouse
cat and rat
cat around
cat back
cat beam
cat block
cat brier
cat burglar
cat castle
cat chain
cat cracker
cat cradle
cat davit
cat distemper
cat fever
cat fit
cat flea
cat food
cat grape
cat hair
cat ham
cat haw
cat hip
cat hole
cat hook
cat house
cat ice
cat ladder
cat man
cat nap
cat o'mountain
cat owl
cat pea
cat pine
cat plague
cat purchase
cat rig
cat salt
cat schooner
cat shark
cat silver
cat sleep
cat snake
cat spruce
cat squirrel
cat stopper
cat strip
cat suit
cat tackle
cat the anchor
cat thyme
cat tree
cat typhoid
cat whisker
cat yawl
cat's cradle
cat's ear
cat's foot
cat's paw
cat's tail
cat's whisker
cat's whiskers
cat's-claw
cat's-cradle
cat's-ear
cat's-eye
cat's-eyes
cat's-feet
cat's-foot
cat's-head
cat's-paw
cat's-tail
cat's-tail speedwell
cat-a-mountain
cat-and-dog
cat-and-dog life
cat-and-dog weather
cat-and-doggish
cat-bed
cat-built
cat-chop
cat-clover
cat-eyed
cat-fish
cat-foot
cat-hammed
cat-harpin
cat-harpings
cat-head
cat-hole
cat-lap
cat-like
cat-locks
cat-o'-mountain
cat-o’-nine-tails
cat-o-nine-tails
cat-rigged
cat-scratch disease
cat-scratch fever
cat-stick
cat-train
cat-whistles
cat-witted
cata-
cataleptic hypnosis
catalog buying
catalog card
catalog goods
catalog selling
catalogue raisonn
catalogue raisonne
catalpa sphinx
catalytic agent
catalytic converter
catalytic cracker
catamenial discharge
catapult flight
catapult fruit
cataract bird
catarrhal fever
catarrhal inflammation
catarrhal pneumonia
catastrophe hazard
catastrophe reserve
catastrophe risk
catastrophic change
catatonic schizophrenia
catatonic stupor
catawba rhododendron
catawba rose bay
catawba tree
cathbird grape
cathbird seat
catch a Tartar
catch a crab
catch a glimpse of
catch a likeness
catch a lobster
catch a ride
catch a smell of
catch a train
catch a turn
catch a wink
catch as catch can
catch asleep at the switch
catch at
catch at straws
catch basin
catch boom
catch box
catch cold
catch colt
catch crop
catch cropping
catch drain
catch fire
catch flat-footed
catch hell
catch hold of
catch in
catch in a trap
catch in the act
catch it
catch it in the neck
catch line
catch meadow
catch napping
catch off base
catch off side
cathode dark space
cathode drop
cathode glow
cathode luminescence
cathode particle
cathode ray
cathode rays
cathode-ray oscillograph
cathode-ray oscilloscope
cathode-ray tube
cathodic protection
cathodo-luminescent
catholico-
cation detergent
cation-active
cationic detergent
catjang pea
cats and dogs
cattail family
cattail flag
cattail fungus
cattail grass
cattail millet
cattail rush
cattle boat
cattle breeder
cattle breeding
cattle buyer
cattle camp
cattle car
cattle crossing
cattle dealer
cattle dehorner
cattle dog
cattle drover
cattle egret
cattle farcy
cattle farm
cattle farmer
cattle feed
cattle feeder
cattle feeding
cattle float
cattle floater
cattle grub
cattle guard
cattle horn
cattle leader
cattle lifting
cattle loader
cattle louse
cattle mange
cattle marker
cattle marking
cattle pass
cattle pen
cattle plague
cattle pump
cattle raising
cattle ranch
cattle range
cattle run
cattle rustler
cattle rustling
cattle scab
cattle ship
cattle shipper
cattle show
cattle stall
cattle station
cattle stealing
cattle steamer
cattle tender
cattle thief
cattle tick
cattle trade
cattle trader
cattle train
cattle truck
cattle wire
cattle-grid
cattle-guard
cattle-plague
cattle-ranching
cattle-specked
cattley guava
cattleya fly
catty-co
catty-corner
catty-cornered
caucus nomination
cauda galli
cauda-galli grit
caudal anesthesia
caudal appendage
caudal fin
caudal peduncle
caudle cup
caught in your own trap
catched napping
ccaught off balance
ccaught off base
ccaught short
ccaught tripping
ccaught up in
ccaught with your pants down
caul board
caul fat
cauliflower cheese
cauliflower disease
cauliflower ear
cauliflower excrescence
cauliflower ware
cauliflower-eared
caulk off
caulking chisel
caulking cotton
caulking iron
caulking tool
caulo-
causa causans
causa finalis
causa sine qua non
causal body
causal glance
causal sequence
causal treatment
cause and effect
cause celebre
cause clbre
cause dislike
cause for alarm
cause in court
cause list
cause pain
cause the mind to stray
cause the mind to wander
cause to
cause to believe
cause to go out of your way
cause to resign
cause trouble
cause trouble for
cause unpleasantness
cave period
cave rat
cave right
cave tomb
cave-guarded
cave-in
cave-keeping
cave-lodged
cave-loving
caveat emptor
cavi-relievi
cavi-rilievi
caviar to the general
caviare to the general
caving system
cavity block
cavity magnetron
cavity resonator
cavity source
cavity wall
caviuna wood
cavo-relievo
cavo-relievos
cavo-rilievo
cayenne pepper
cayenne whist
cease fire
cease hostilities
cease not
cease resistance
cease to be
cease to exist
cease to live
cease to use
cease-and-desist order
cease-fire
cecropia moth
cedant arma togae
cedar apple
cedar bird
cedar camphor
cedar chest
cedar elm
cedar grass
cedar green
cedar leaf
cedar maker
cedar manna
cedar moss
cedar nut
cedar of Lebanon
cedar pine
cedar rust
cedar swamp
cedar tree
cedar waxwing
cedar-brown
cedar-colored
cedarwood oil
cedar
ceee spring
ceiling balloon
ceiling board
ceiling fixture
ceiling floor
ceiling hook
ceiling joist
ceiling light
ceiling piece
ceiling plate
ceiling price
ceiling projector
ceiling unlimited
ceiling zero
ceiling-height indicator
ceilinged roof
cela saute aux yeux
cela va sans dire
celadon green
celandine green
celandine poppy
celebrate Mass
celery blight
celery cabbage
celery family
celery grass
celery mosaic
celery oil
celery pine
celery root
celery salt
celery seed
celery yellows
celery-leaved
celery-topped
celestial being
cell theory
cell wall
cell-blockade
cell-like
cell-shaped
cellar book
cellar door
cellar pipe
cellar sash
cellophane tape
cellular kite
cellular tissue
cellulo-
cellulocutaneous plague
celluloid collar
cellulose acetate
cellulose ether
cellulose flour
cellulose nitrate
cellulose plastic
cellulose triacetate
cellulose xanthate
celo-navigation
celtic cross
celto-
cembal damore
cembrone nut
cembrone pine
cement a union
cement conveyer
cement disease
cement dusting
cement filler
cement gauger
cement gland
cement grinder
cement hardener
cement kiln
cement layer
cement maker
cement mill
cement miller
cement mixer
cement of friendship
cement organ
cement paver
cement pulverizer
cement rod
cement sprayer
cement steel
cement tester
cement-coated
cement-covered
cement-drying
cement-faced
cement-forming
cement-lined
cement-lining
cement-temper
cen-
cendres blue
censer bearer
censer box
censer pot
census report
census returns
census taker
census tract
centauro-triton
center about
center anchor
center back
center bit
center circle
center drill
center field
center fielder
center gambit
center gauge
center halfback
center in
center jam
center jump
center line
center mold
center of action
center of activity
center of area
center of attention
center of attraction
center of authority
center of buoyancy
center of consciousness
center of curvature
center of displacement
center of effort
center of figure
center of flotation
center of gravity
center of immersed bulk
center of immersion
center of inertia
center of interest
center of inversion
center of lateral resistance
center of life
center of manufacture
center of mass
center of origin
center of oscillation
center of ossification
center of percussion
center of pressure
center of projection
center of similitude
center of suspension
center of symmetry
center of the mind
center of volume
center on
center punch
center reamer
center round
center seal
center spider
center spread
center square
center staff
center tester
center valve
center wheel
center zone
center-fire
center-freeze system
center-of-pressure coefficient
center-sawed
center-second
centerboard damper
centerboard trunk
centered dot
centerhole guitar
centering machine
centering square
centi-
centigrade scale
centigrade thermal unit
centigrade thermometer
centimeter-gram
centimeter-gram-second
centimetre-gram-second
centimetre-gramme-second
centipede grass
centipede legs
centipede locomotive
centipede plant
centr-
central administration
central angle
central apparatus
central bank
central body
central city
central cylinder
central dogma
central eclipse
central heating
central limit theorem
central moment
central nervous system
central office
central position
central processing unit
central projection
central reserve
central school
central station
central sulcus
central tendency
central time
central-fire
centralized school
centrally heated
centre bit
centre forward
centre half
centre of curvature
centre of gravity
centre of mass
centre of pressure
centre punch
centre section
centre spread
centre three-quarter
centre-fire
centred dot
centi-
centrifugal action
centrifugal box
centrifugal casting
centrifugal force
centrifugal pot
centrifugal pump
centrifugal spinning
centripetal action
centripetal force
centro-
centum languages
centuple calorie
century aloe
century plant
cephal-
cephalic index
cephalo-
cephalopelvic disproportion
ceramic cartridge
ceramic engineer
ceramic engineering
ceramic material
ceramic microphone
ceramic pickup
ceramic ware
cerat-
cerato-
cercis-leaf
cereal bowl
cereal plant
cerebellar hemispheres
cerebello-olivary
cerebr-
cerebral accident
cerebral cortex
cerebral dominance
cerebral hemisphere
cerebral hemispheres
cerebral meningitis
cerebral palsied
cerebral palsy
cerebral rheumatism
cerebral shock
cerebral tabes
cerebral tuberculosis
cerebro-
cerebro-ocular
cerebro-spinal
cerebrospinal fever
cerebrospinal fluid
cerebrospinal meningitis
cerebrospinal nervous system
cerebrovascular accident
ceremonial attire
ceremonial tea
ceric oxide
cerinic acid
cerium dioxide
cerium metal
cerium metals
cerium oxide
cero-
ceroso-
cerotic acid
cerro-tree
cerro green
certain knowledge
certain person
certainly not
certifiable case
certificate of admeasurement
certificate of character
certificate of deposit
certificate of enrollment
certificate of incorporation
certificate of indebtedness
certificate of insurance
certificate of invention
certificate of origin
certificate of proficiency
certificate of registry
certificate of stock
certified check
certified copy
certified mail
certified milk
certified public accountant
certified teacher
cerulean blue
cerulean warbler
ceruleo-
cervical smear
chain boat
chain bolt
chain brake
chain cable
chain cent
chain closure
chain conveyer
chain coral
chain coupling
chain creeper
chain discount
chain dog
chain drill
chain drive
chain driving
chain fall
chain feed
chain fern
chain gang
chain gear
chain gearing
chain grab
chain grate
chain guard
chain harrow
chain hoist
chain hook
chain isomerism
chain joiner
chain jointer
chain knot
chain letter
chain lightning
chain line
chain link fence
chain linker
chain locker
chain mail
chain maker
chain mark
chain measure
chain mechanism
chain of being
chain of cause and effect
chain of circumstances
chain of command
chain of evidence
chain of ideas
chain-react
chain-reacting
chain-reacting pile
chain-shaped
chain-shot
chain-smoke
chain-smoked
chain-smoker
chain-smoking
chain-spotted
chain-stitch
chain-stitching
chain-swung
chain-testing
chain-wale
chain-welding
chain-work
chaining pin
chair arm
chair back
chair bed
chair binder
chair bottom
chair bottomer
chair cane
chair car
chair leg
chair lift
chair of English
chair organ
chair rail
chair seat
chair seater
chair shaper
chair table
chair turner
chair, the
chair-fast
chair-mortising
chair-shaped
chair-warmer
chairman of the board
chaise cart
chaise d'or
chaise longue
chaise longues
chaise lounge
chaise-longue
chaise-marine
chaises longues
chakazzi copal
chalcedony yellow
chalcid fly
chalcid wasp
chalcis fly
chalco-
chalice cell
chalice flower
chalice moss
chalice veil
chalice vine
chalk and talk
chalk burner
chalk cliff
chalk down
chalk dust
chalk engraving
chalk flint
chalk hill
chalk lime
chalk line
chalk maple
chalk mixture
chalk out
chalk pit
chalk plant
chalk process
chalk quarry
chalk stripe
chalk talk
chalk talker
chalk up
chalk-eating
chalk-eyed
chalk-plate process
chalk-stone
chalk-talk
chalk-white
challenge comparison
challenge cup
chamber acid
chamber barrister
chamber blast
chamber chorus
chamber composer
chamber concert
chamber council
chamber counsel
chamber fellow
chamber filter
chamber gas
chamber horse
chamber kiln
chamber master
chamber mastering
chamber music
chamber of commerce
chamber of horrors
chamber opera
chamber orchestra
chamber organ
chamber pot
chamber practice
chamber process
chamber sonata
chamber stool
chamber study
chamber train
chamber vessel
chamber-deacon
chamber-master
chambered nautilus
chameleon grass
chameleon mineral
chameleon tree frog
chamfer bit
chamfer plane
chamois cloth
chamois leather
chamois skin
chamois yellow
champ at the bit
champaca oil
champagne cider
champagne cocktail
champagne cup
champaign country
champing at the bit
champion oak
champion tooth
champleve enamel
chance arrival
chance at odds
chance bairn
chance child
chance discovery
chance event
chance hit
chance it
chance on
chance upon
chance-dropped
chance-hit
chance-hurt
chance-medley
chance-met
chance-poised
chance-shot
chance-sown
chance-taken
chance-won
chancel organ
chancel screen
chancel table
chancellor of the exchequer
chancery court
chancery hand
chancery law
chandelier tree
chang awn
change back
change bowler
change color
change course
change down
change for
change for the better
change for the worse
change front
change gear
change hands
change house
change into
change key
change of allegiance
change of commitment
change of conviction
change of heart
change of life
change of loyalty
change of mind
change of one thing for another
change of pace
change of venue
change off
change over
change ownership
change place
change places with
change point
change ratio
change residence
change ringing
change round
change sides
change the bearing
change the heading
change the preponderance
change to a former state
change to something different
change up
change wheel
change with the times
change your allegiance
change your colors
change your identity
change your mind
change your note
change your song
change your tune
change your ways
change-case key
change-house
change-over
change-over switch
change-ringing
change-speed gear
change-up
changed for the better
changement de pied
changements de pied
changer-off
changing bag
changing note
changing tone
channel bar
channel bass
channel board
channel bolt
channel cat
channel filter
channel goose
channel iron
channel patch
channel plate
channel rail
channel selector
channel steel
channel stone
channel-back chair
chanson de geste
chansons de geste
chant du cygne
chante-fable
chante-fables
chantry priest
chaotic heart
chap-book
chap-fallen
chap-money
chaparral bird
chaparral broom
chaparral cock
chaparral lily
chaparral pea
chaparral snapdragon
chapeau bras
chapel child
chapel de fer
chapel of ease
chapel royal
chapel text
chapels de fer
chapter and verse
chapter head
chapter house
chapter of accidents
chapter ring
char-
char-a-banc
char-a-bancs
character actor
character assassination
character dance
character dancing
character disorder
character dress
character group
character loan
class man
character part
character piece
character reference
character sketch
character study
character type
character witness
character woman
characteristic curve
characteristic equation
characteristic function
characteristic polynomial
characteristic root
characteristic subgroup
characteristic value
characteristic vector
characteristic velocity
characteristic x-ray
charcoal black
charcoal burner
charcoal drawing
charcoal fire
charcoal furnace
charcoal gray
charcoal grey
charcoal iron
charcoal oven
charcoal paper
charcoal pencil
charcoal pit
charcoal plate
charcoal point
charcoal powder
charcoal rot
charcoal tree
charcoal wood
charcoal-burner
charcoal-gray
charga-plate
charge account
charge book
charge card
charge carrier
charge conjugation
charge d'affaires
charge density
charge for
charge hand
charge in
charge nurse
charge of quarters
charge off
charge on
charge plate
charge sheet
charge the jury
charge to
charge to experience
charge to the jury
charge to your account
charge up
charge upon
charge weigher
charge with
charge-a-plate
charge-exchange accelerator
charge-house
charge-off
chargeable to
charged moment
charged up
charges forward
charging of the jury
charging order
charging rate
charging stick
chariot driver
chariot driving
chariot plane
chariot pole
chariot race
chariot racer
chariot side
chariot wheel
chariot-shaped
charismatic figure
charismatic gift
charismatic leader
charismatic movement
charismatic renewal
charity ball
charity bazaar
charity boy
charity case
charity commission
charity girl
charity house
charity school
charity stamp
charity ward
charity work
charity worker
charles's wain
charley horse
charlotte russe
charm school
charm the birds out of the trees
charm-bound
charm-built
charm-engirdled
charm-struck
charmed circle
charmed life
charnel house
chart a course
chart house
chart room
charter colony
charter hand
charter hold
charter land
charter member
charter party
charter school
charter-party
chartered accountant
chartered bus
chartreuse green
chartreuse tint
chartreuse yellow
chase after
chase away
chase gun
chase halter
chase hoop
chase mortise
chase mortised
chase off
chase out
chase piece
chase port
chase ring
chase up a stump
chase up a tree
chase women
chase your tail
chase-hooped
chase-hooping
chase-mortised
chaser hob
chasing lathe
chasse-maree
chassis fitter
chassis painter
chaste and fair
chaste as morning dew
chaste tree
chastity belt
chat show
chat up
chateau gray
chateau wine
chaton foil
chattel house
chattel interest
chattel mortgage
chattel slave
chattels personal
chattels real
chatter mark
chatter water
chatterbox tree
chattering of the teeth
chaud-froid
chaud-melle
chaulmoogra oil
chaun-
chaw-bacon
chaw-stick
che sara sara
che-choy
cheadle dock
cheap as dirt
cheap at half the price
cheap at the price
cheap item
cheap money
cheap rates
cheap shot
cheap skate
cheap-jack
cheap-john
cheat death
cheat on
cheat the undertaker
check a parameter
check and doublecheck
check binding
check boy
check brace
check chamber
check collar
check endorser
check exchange
check folio
check gauge
check girl
check in
check in and out
check in full career
check key
check line
check list
check lock
check mark
check nut
check of
check off
check on
check out
check over
check over and through
check punch
check puncher
check rail
check ring
check roller
check sheet
check side
check stamp
check stamper
check stopper
check system
check the growth of
check the helm
check through
check up
check up and down
check up on
check valve
check washer
check your speech
check-
check-canceling
check-endorsing
check-flood
check-in
check-out
check-out pilot
check-over
check-perforating
check-roll
check-stone
check-string
check-writing
checked out
checked-out
checker plate
checker tree
checker-berry
checker-brick
checker-roll
checker-up
checkered lily
checkered plate
checking account
checking signals
checks and balances
cheddar pink
chee-chee
cheek block
cheek by cheek
cheek by jowl
cheek cut
cheek knee
cheek pouch
cheek strap
cheek to cheek
cheek tooth
cheek-by-jowl
cheer on
cheer pine
cheer the inner man
cheer to the very echo
cheer up
cheer-up
cheerful consent
cheerful expectation
cheerful fire
cheerful giver
cheerful outlook
cheerful readiness
cheery mood
cheery vein
cheese bail
cheese basket
cheese blintz
cheese block
cheese bolt
cheese cake
cheese cement
cheese chandler
cheese color
cheese cutter
cheese dream
cheese finger
cheese fly
cheese grater
cheese hoop
cheese it
cheese knife
cheese maggot
cheese maker
cheese making
cheese mite
cheese mold
cheese pitch
cheese plate
cheese press
cheese rack
cheese rennet
cheese running
cheese scoop
cheese skipper
cheese souffle
cheese straw
cheese toaster
cheese trier
cheese tub
cheese vat
cheese wring
cheese-head
cheese-headed
cheese-paring
cheesebox seat
cheesed off
cheeseparings and candle ends
chef d' oeuvre
chef d'oeuvre
chef d'ouvre
chef de cuisine
chef salad
chef-d'
chef-d'oeuvre
chefs de cuisine
chefs-d'oeuvre
cheil-
cheir-
cheiro-
chem-
chemic mixer
chemical analysis
chemical apparatus
chemical bond
chemical closet
chemical corps
chemical detector
chemical dictionary
chemical dynamics
chemical element
chemical elements
chemical engineer
chemical engineering
chemical equation
chemical fertilizer
chemical fuse
chemical lead
chemical physics
chemical potential
chemical reaction
chemical rocket
chemical solution
chemical sympathectomy
chemical toilet
chemical warfare
chemically pure
chemico-
chemin de fer
chemist's shop
chemo-
chemosynthetic bacteria
chenille Axminster
chenille carpet
chenille plant
chenille rug
chenopodium oil
cheoplastic metal
cheque card
chequer-chamber
chequer-wise
chequer-work
chequered flag
cherchez la femme
cherish a belief
cherish a feeling
cherish an idea
cherish at the heart’s core
cherish the hope
cherish the memory of
cherokee rose
cheroonjie nut
cherry aphid
cherry apple
cherry bay
cherry birch
cherry bird
cherry bomb
cherry bounce
cherry brandy
cherry chopper
cherry coal
cherry coffee
cherry cordial
cherry country
cherry crab
cherry crush
cherry currant
cherry fair
cherry finch
cherry fruit fly
cherry fruit sawfly
cherry grader
cherry gum
cherry holly
cherry laurel
cherry leaf beetle
cherry leaf spot
cherry maggot
cherry mildew
cherry orange
cherry pepper
cherry picker
cherry pie
cherry pit
cherry pitter
cherry plum
cherry red
cherry rum
cherry scab
cherry scale
cherry seeder
cherry slug
cherry smash
cherry stone
cherry stoner
cherry sucker
cherry tomato
cherry wine
cherry-bob
cherry-cheeked
cherry-colored
cherry-crimson
cherry-flavored
cherry-laurel oil
cherry-lipped
cherry-merry
cherry-pie
cherry-red
cherry-ripe
cherry-rose
cherry-tree gum
cherry-wood
chest X-ray
chest expander

chesapeake bay retriever
cheshire cat
cheshire cheese
class apple
chess clock
chess notation
chess opening
chess rook
chess-apple
chess-men
chess-playing machine
chess-tree
chessylite blue

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chest founder
chest foundering
chest lid
chest lock
chest maker
chest measurer
chest note
chest of drawers
chest of viols
chest protector
chest register
chest tone
chest voice
chest wall
chest weight
chest-deep
chest-foundered
chest-on-chest
chested arrow
chester white
chestnut bean
chestnut blight
chestnut borer
chestnut bottle
chestnut brown
chestnut bud
chestnut clam
chestnut coal
chestnut extract
chestnut flour
chestnut oak
chestnut roaster
chestnut sedge
chestnut shell
chestnut stuffing
chestnut timber worm
chestnut tongue
chestnut tree
chestnut weevil
chestnut-backed
chestnut-bark disease
chestnut-bellied
chestnut-brown
chestnut-collared
chestnut-colored
chestnut-crested
chestnut-crowned
chestnut-red
chestnut-roan
chestnut-sided
chestnut-winged
cheval de bataille
cheval de frise
cheval glass
cheval screen
cheval-de-frise
cheval-glass
chevalier bird
chevalier crab
chevaux de bataille
chevaux-de-frise
chevron-shaped
chew ass
chew out
chew over
chew the cud
chew the fat
chew the rag
chew the scenery
chew up
chew up the scenery
chew your
chewing gum
chewing louse
chewing tobacco
chewing-out
chez soi
chi-lin
chi-rho
chi-square
chi-square distribution
chi-square test
chi-squared test
chian turpentine
chica red
chick-pea
chickasaw plum
chicken Cacciatore
chicken Kiev
chicken Marengo
chicken Tetrazzini
chicken and dumplings
chicken bird
chicken breast
chicken broth
chicken cholera
chicken-livered
chicken-liveredness
chicken-meat
chicken-spirited
chicken-toed
chickens-toes
chickling vetch
chickweed family
chickweed phlox
chickweed wintergreen
chicle bleeder
chicle gum
chico mamey
chicory family
chief constable
chief cook
chief engineer
chief executive
chief executive officer
chief justice
chief justiceship
chief librarian
chief master sergeant
chief mate
chief of police
chief of staff
chief of state
chief of the deadly sins
chief officer
chief petty officer
chief pilot
chief rabbi
chief thing
chief warrant officer
chief-justiceship
chief-pledge
chiefly Austral
chiff chaff
chiff-chaff
chignon bob
chigoe flea
chigoe-poison
chih hsien
child actor
child benefit
child born out of wedlock
child care
child guidance
child labor
child labour
child life
child mind
child minder
child of nature
child prodigy
child psychiatry
child psychology
child rearing
child welfare
child's play
child-bearing
child-bereft
child-birth
child-fashion
child-god
child-hearted
child-heartedness
child-loving
child-minded
child-mindedness
childbed fever
childhood's careless days
childish scrawl
childish treble
children of Israel
children of darkness
children of the devil
children's book
children's dictionary
children's hospital
children's librarian
children's magazine
children's shop
children's wear
chile con carne
chile niter
chile saltpeter
chile sauce
chili and beans
chili con carne
chili pepper
chili powder
chili sauce
chili vinegar
chilio-
chill along the spine
chill casting
chill mold
chill plow
chill to the bone
chill to the marrow
chill your spine
chill-cast
chilled to the bone
chilli con carne
chilli pepper
chilli powder
chilli sauce
chilling wind
chills of fear
chills of terror
chilo-
chime hoop
chime in
chime in with
chime of bells
chime whistle
chiming bell
chimley neuck
chimney bar
chimney bellflower
chimney board
chimney breast
chimney cap
chimney corner
chimney flute
chimney glass
chimney hook
chimney jack
chimney lug
chimney money
chimney piece
chimney pink
chimney plant
chimney pot
chimney repainer
chimney rock
chimney stack
chimney stalk
chimney swallow
chimney sweep
chimney sweeper
chimney swift
chimney tax
chimney throat
chimney top
chimney tun
chimney wheel
chimney wing
chimney-piece
chimney-pot hat
chin cough
chin fly
chin music
chin rest
chin shield
chin stay
chin strap
chin whiskers
chin-bearded
chin-bone
chin-chin
chin-chinned
chin-chinning
chin-deep
chin-high
chin-up
chin-wag
china aster
china bark
china cabinet
china clay
china closet
china decorator
china painter
china painting
china rose
china shop
china stone
china tree
china-mania
chinaberry tree
chinar tree
chinbeak molding
chinch bug
chine gall
chine hoop
chinese cabbage
chinese chestnut
chinese date
chinese lacquer
chinese lantern
chinese puzzle
chinese wall
chinese white
chinic acid
chink in your armor
chink-backed
chinked back
chinking course
chinless wonder
chino-
chinook jargon
chinook salmon
chinook wind
chinquapin oak
chip ax
chip basket
chip bird
chip board
chip break
chip budding
chip carving
chip in
chip log
chip of
chip of the old block
chip off
chip off the old block
chip on the shoulder
chip on your shoulder
chip pan
chip ring
chip shot
chip-hat palm
chip-proof
chipped beef
chipper-up
chipping ax
chipping bit
chipping chisel
chipping hammer
chipping piece
chipping sparrow
chipping squirrel
chiquichiqui palm
chir pine
chir-
chirk up
chiro-
chirp like a cricket
chisel bit
chisel grinder
chisel in
chisel maker
chisel making
chisel point
chisel steel
chisel temper
chisel tooth
chisel-cut
chisel-edged
chisel-pointed
chisel-shaped
chit-chat
chitino-arenaceous
chito melon
chittam bark
chittem bark
chitter-chatter
chittim bark
chitty-face
chive garlic
chlor-
chloracetic acid
chloral hydrate
chloramine-T
chloric acid
chloric ether
chloride of lime
chloride paper
chlorinated lime
chlorine azide
chlorine dioxide
chlorine family
chlorine peroxide
chlorine water
chloro-
chloroacetic acid
chlorobromid paper
chlorobromide paper
chloroformyl chloride
chlorophenol red
chlorophyll a
chlorophyll b
chlorophyll body
chloroplatinic acid
chlorosulfonic acid
chlorous acid
choc-ice
chock cheese
chock stone
chock-a-block
chock-full
chocolate bar
chocolate brown
chocolate cake
chocolate candy
chocolate chip cookie
chocolate corn
chocolate coverer
chocolate dipper
chocolate drop
chocolate eclair
chocolate family
chocolate milk
chocolate mill
chocolate mixer
chocolate mold
chocolate molder
chocolate molding
chocolate mousse
chocolate packer
chocolate pudding
chocolate sifter
chocolate soldier
chocolate tree
chocolate wrapper
chocolate-box
chocolate-brown
chocolate-coated
chocolate-colored
chocolate-flower
chocolate-red
choctaw-root
choice bit of dirt
choice morsel
choice of Hercules
choice of words
choice reaction
choice-drawn
choir aisle
choir chaplain
choir invisible
choir loft
choir manual
choir member
choir organ
choir rail
choir school
choir screen
choir stall
choir wall
choke apple
choke back
choke coil
choke collar
choke off
choke on
choke out
choke pear
choke point
choke up
choke-
choke-bore
choke-full
choked off
choked up
choked voice
choker setter
choking coil
choking off
chol-
cholane series
chole-
cholera horn
cholera infantum
cholera morbus
cholera nostras
cholic acid
choline esterase
chol-
chomp at the bit
chondr-
chondro-
chondro-osseous
chondroitin-sulphuric
chondrotrophic hormone
choo-choo
choo-choo train
choo-chooed
choo-chooing
choof off
choose off
choose out
choose rather
choose to
choose up
chop and change
chop chop
chop dollar
chop down
chop logic
chop mark
chop sooy
chop stroke
chop suey
chop-cherry
chop-chop
chop-church
chop-fallen
chop-house
chop-logic
chop-stick
chop-suey
chopped steak
chopped-off
chopper cot
chopper tool
chopping block
chopping knife
chopping sea
choppy sea
chor bishop
choral conductor
choral dancer
choral dancing
choral director
choral fantasy
choral group
choral music
choral service
choral singer
choral singing
choral society
choral speaking
choral symphony
chorale prelude
chord chart
chord of the sixth
chord organ
chord packing
chord pitch
chord symbol
corda dorsalis
corda tendinea
corda tympani
cordae tendineae
core boy
corea minor
coreo-
chori-
choioallantoic membrane
chorionic gonadotrophin
chorionic gonadotropin
choroid coat
choroid membrane
choroid plexus
chorus boy
chorus frog
chorus girl
chorus man
chorus of cheers
chorus reed
chorus show
chorus singer
chose in possession
chose local
chose transitory
chosen freeholder
chosen kind
chosen people
chosen sort
chooses in action
chooses in possession
chooses local
chooses transitory
chota hazri
chou moellier
chou paste
chou pastry
chou-fleur
chouse out of
choux pastry
chow chow
chow down
chow line
chow mein
chow-chow
chrisom child
christ's-thorn
chrome sole
chrome spinel
chrome steel
chrome tanning
chrome vermilion
chrome yellow
chrome-nickel
chrome-nickel steel
chrome-tanned
chrome-vanadium steel
chronic acetate
chronic acid
chronic chloride
chronic fluoride
chromium acetate
chromium ammonium sulfate
chromium chloride
chromium family
chromium green
chromium oxide
chromium plate
chromium potassium sulfate
chromium sesquioxide
chromium steel
chromium trioxide
chromium yellow
chromium-plate
chromium-plated
chromo-
chromo-arsenate
chromosome complement
chromosome number
chromyl chloride
chron-
chronic alcoholic
chronic alcoholism
chronic bronchitis
chronic condition
chronic disease
chronic drunk
chronic ill health
chronic infectious arthritis
chronic inflammation
chronic leukemia
chronic pauperism
chronic poor
chronic poverty area
chronicle drama
chronicle history
chronicle play
chronique scandaleuse
chroniques scandaleuses
chrono-
chronological error
chronometer escapement
chrys-
chrysalis oil
chrysanthemum dog
chrysanthemum rust
chryso-
chrysolite green
chrysoprase green
chthonian worship
chub mackerel
chub sucker
chub-faced
chubby-faced
chuck and toss
chuck at
chuck farthing
chuck in
chuck it
chuck out
chuck plate
chuck rib
chuck roast
chuck steak
chuck under the chin
chuck up
chuck wagon
chuck-a-luck
chuck-farthing
chuck-full
chuck-luck
chuck-will's-widow
chucker-out
chuckers-out
chucking lathe
chucking out
chucking reamer
chucky-chuck
chucky-chucky
chug on
chug-a-lug
chug-chug
chukar partridge
cigar cutter
cigar holder
cigar lighter
cigar machine
cigar machinist
cigar maker
cigar making
cigar mold
cigar molder
cigar packer
cigar roller
cigar rolling
cigar smoker
cigar sorter
cigar spot
cigar store
cigar-box cedar
cigar-flower
cigar-loving
cigar-shaped
cigar-smoker
cigar-store Indian
cigarette beetle
cigarette break
cigarette butt
cigarette card
cigarette case
cigarette drain
cigarette end
cigarette factory
cigarette girl
cigarette holder
cigarette lighter
cigarette machine
cigarette maker
cigarette making
cigarette paper
cigarette roller
cigarette smuggling
cigarette sorter
cigarette tobacco
cigarette-smoker
ciliary body
ciliary muscle
ciliary process
ciliate-leaved
ciliate-toothed
cilo-spinal
cinch bill
cinch up
cinchona bark
cinder block
cinder breaker
cinder concrete
cinder cone
cinder frame
cinder gray
cinder mill
cinder notch
cinder patch
cinder path
cinder pig
cinder pit
cinder tap
cinder track
cine camera
cine film
cine-
cinema operator
cinema red
cinema theater
cinema verite
cinerary urn
cineres clavellati
cingulate gyrus
cinma vrit
cinnabar green
cinnabar red
cinnamic acid
cinnamic alcohol
cinnamic aldehyde
cinnamon apple
cinnamon bark
cinnamon bear
cinnamon brown
cinnamon fern
cinnamon flower
cinnamon honeysuckle
cinnamon oak
cinnamon oil
cinnamon rose
cinnamon sedge
cinnamon stone
cinnamon teal
cinnamon vine
cinnamon water
cinnamon-bark oil
 cinnamon-leaf oil
 cinnamoyl group
 cinnamoyl radical
 cinnamyl acetate
 cinnamyl group
 cinnamyl radical
cinque point
 cinque ports
 cinque-spotted
cipher disk
cipher up
circassian walnut
 circle brick
 circle cutter
 circle driller
 circle finisher
 circle geometry
 circle graph
 circle in
circle of confusion
 circle of convergence
 circle of curvature
 circle of least confusion
 circle of the sphere
 circle out
 circle setter
 circle shear
 circle shears
 circle squarer
 circle theater
 circle tour
 circle trowel
 circle-branching
circle-in
 circle-out
 circle-shearing
 circle-squaring
 circle-wise
 circled about
 circling boy
 circling disease
 circling-in
 circling-out
 circuit analysis
 circuit analyzer
 circuit binding
circuit breaker
circumvent the law
circus artist
circus make-up
circus movement
circus performer
circus rider
circus tent
circus troupe
cire perdue
cire-perdue
cirl bunting
cirque-couchant
cirr-
cirrh-
cirrhosis of the liver
cirrhotic inflammation
cirro-
cirro-cumular
cirro-cumulative
cirro-cumulous
cirro-cumulus
cirro-fillum
cirro-filum
cirro-macula
cirro-nebula
cirro-stome
cirro-strative
cirro-stratous
cirro-stratus
cirro-velum
cirrocumulus castellanus
cirrocumulus castellatus
cirrocumulus floccus
cirrocumulus lenticularis
cirrocumulus stratiformis
cirrostratus fibratus
cirrostratus filosus
cirrostratus nebulosus
cirrus castellanus
cirrus castellatus
cirrus cloud
cirrus densus
cirrus fibratus
cirrus floccus
cirrus haze
cirrus intortus
cirrus nothus
cirrus spissatus
citrus nematode
citrus rust mite
citrus scab
citrus white fly
city block
city blues
city board
city center
city chicken
city company
city council
city councilman
city court
city crop
city desk
city directory
city district
city dweller
city edition
city editor
city father
city gas
city hall
city man
city manager
city mission
city missionary
city of the dead
city plan
city planner
city planning
city room
city slicker
city ward
city-born
city-bound
city-bred
city-commonwealth
city-god
city-manager plan
city-state
city-wide
civet bean
civet cat
civet fruit
civet-cat
civetette green
civic centre
clap in jail
clap in prison
clap of thunder
clap on
clap on ratlines
clap on sail
clap on the back
clap sill
clap spurs to your horse
clap the hands
clap together
clap up
clap-net
clap-stick
clapped out
clapper block
clapper box
clapper bridge
clapper rail
clapper valve
clapper-claw
clapping of hands
clare-obscure
claret brown
claret cup
claret dun
claret red
claribel flute
clarified butter
clarin trumpet
clarinet flute
clarion call
clarion-voiced
claro obscuro
clash gear
clash in color
clash of arms
clash with
clashing colors
clashingly colored
clasp hook
clasp knife
clasp lock
clasp nut
claspers-leaved
class boat
class bond
class conflict
class consciousness
class day
class dialect
class distinction
class hatred
class inclusion
class interval
class leader
class list
class lottery
class mark
class meaning
class meeting
class name
class number
class prejudice
class publication
class rate
class ring
class structure
class struggle
class war
class warfare
class-cleavage
class-conscious
classic blues
classic example
classic purity
classical Nahuatl
classical Sanskrit
classical abstraction
classical ballet
classical college
classical conditioning
classical economics
classical economist
classical education
classical guitar
classical guitarist
classical language
classical mechanics
classical music
classical physics
classical pitch
classical purity
classical scholarship
classical tragedy
classico-
clay eater
clay fever
clay flour
clay grinder
clay iron
clay loam
clay marl
clay mill
clay miner
clay mineral
clay mixer
clay model
clay modeler
clay pan
clay pigeon
clay pipe
clay pit
clay press
clay pressman
clay pugger
clay pulverizer
clay sculpture
clay shale
clay slate
clay soil
clay stacker
clay stone
clay temperer
clay washer
clay works
clay worsted
clay-bound
clay-built
clay-cold
clay-colored
clay-colored sparrow
clay-digging
clay-dimmed
clay-drying
clay-faced
clay-filtering
clay-forming
clay-grinding
clay-lined
clay-mixing
clay-tempering
clay-washing
clay-wrapped
clayver-grass

clan as a hound's tooth

clan as a new penny

clan as a whistle

clan bill of health

clan bomb

clan forget

clan forgotten

clan full

clan hands

clan house

clan out

clan profit

clan room

clan rum

clan slate

clan sweep

clan up

clan up on

clan-

clan-appearing

clan-armed

clan-boled

clan-bred

clan-built

clan-complexioned

clan-cut

clan-faced

clan-feeding

clan-fingered

clan-grained

clan-handed

clan-legged

clan-limbed

clan-lived

clan-living

clan-looking

clan-made

clan-minded

clan-moving

clan-sailing

clan-saying

clan-seeming

clan-shanked

clan-shaped

clan-shaved

clan-shaven

clan-skin
clean-skinned
clean-smelling
clean-souled
clean-speaking
clean-sweeping
clean-thinking
clean-timbered
clean-washed
cleaned up
cleaner cell
cleaner tooth
cleaner-off
cleaner-out
cleaner-up
cleaning agent
cleaning crop
cleaning devices
cleaning fluid
cleaning hinge
cleaning lady
cleaning man
cleaning out
cleaning shoe
cleaning solvent
cleaning up
cleaning woman
cleanly habits
cleanse away
cleanse yourself of guilt
cleansing away
cleansing cream
cleansing tissue
clear and distinct
clear as crystal
clear as day
clear as ditch water
clear as glass
clear as mud
clear as the nose on your face
clear away
clear coast
clear conscience
clear course
clear eyes
clear for action
clear hawse
clear obscure
clear of
clear off
clear off old scores
clear out
clear plastic
clear profit
clear road
clear sailing
clear shellac
clear sight
clear soup
clear space
clear stage
clear text
clear the air
clear the board
clear the decks
clear the hurdle
clear the land
clear the mind
clear the mind of
clear the path for
clear the road for
clear the skirts of
clear the throat
clear the trade
clear the way
clear thinking
clear to hell and gone
clear up
clear varnish
clear wax
clear your name
clear-air turbulence
clear-boled
clear-channel station
clear-cole
clear-complexioned
clear-crested
clear-cut
clear-cutness
clear-cutting
clear-eye
clear-eyed
clear-eyes
clear-faced
clear-featured
clear-hawse breeches
clear-hawse pendant
clear-headed
clear-minded
clear-mindedness
clear-obscur
clear-sighted
clear-sightedly
clear-sightedness
clear-skinned
clear-spirited
clear-starch
clear-starcher
clear-stemmed
clear-story
clear-sunned
clear-throated
clear-tinted
clear-toned
clear-up
clear-visioned
clear-voiced
clear-walled
clear-witted
clearance angle
clearance car
clearance fit
clearance loan
clearance papers
clearance sale
clearance size
clearance space
clearer fabric
clearing agent
clearing bank
clearing bath
clearing bearing
clearing house
clearing lease
clearing loan
clearing mark
clearing nut
clearing of the track
clearing of your name
clearing out
clearing pole
clearing the decks
clearing up
clearinghouse agent
clearinghouse stock
clew line
clew ring
clew rope
clew up
cliche-ridden
click beetle
click catch
click hook
click iron
click pulley
click wheel
click-clack
clickety-clack
clickety-click
client's indemnity
client-centered therapy
cliff brake
cliff dweller
cliff dwelling
cliff edge
cliff elm
cliff face
cliff hanger
cliff path
cliff rose
cliff ruin
cliff swallow
cliff top
cliff wall
cliff-bound
cliff-chafed
cliff-girdled
cliff-hanger
cliff-hanging
cliff-marked
cliff-worn
climactic arthritis
climate of opinion
climatic bubo
climatic chart
climax basket
climax forest
climb Parnassus
climb down
climb indicator
climb milling
climb on
climb over
climb up
climb your frame
climb-down
climbing bittersweet
climbing fern
climbing fish
climbing frame
climbing fumitory
climbing hempweed
climbing hydrangea
climbing iron
climbing irons
climbing perch
climbing rose
climbing ylang-ylang
clin-
clinch joint
clinch nail
clinch work
clinch-built
clincher tire
clincher work
clincher-built
clinching iron
cling like a burr
cling like a winkle
cling like ivy
cling to
cling to the hope
cling-rascal
clinging vine
clinical death
clinical dextran
clinical diagnosis
clinical medicine
clinical pathology
clinical psychologist
clinical psychology
clinical surgery
clinical thermometer
clink shell
clink-clank
clinker beech
clinker boat
clinker brick
clinker plating
clinker strake
clinker work
clinker-built
clinker-laid plating
clinkety-clink
clinkum bell
clink-
clintonite group
clip bond
clip hook
clip joint
clip off
clip plate
clip the wings
clip the wings of
clip tongs
clip yoke
clip your words
clip-clop
clip-edged
clip-fed
clip-marked
clip-on
clip-winged
clippered form
clipped word
clipper bow
clipper ship
clipper sled
clipper-built
clippety-clop
clipping bureau
clipping time
clique with
clish-clash
clish-ma-claver
cloaca maxima
cloacae maximae
cloak baster
cloak dealer
cloak fern
cloak fitter
cloak hanger
cloak ironer
cloak maker
cloak operator
cloak pin
cloak presser
cloak trimming
cloak yourself
cloak yourself with
cloak-and-dagger
cloak-and-dagger operative
cloak-and-dagger work
cloak-and-suiet
cloak-and-sword
cloak-fashion
cloak-room
cloaked in darkness
clock card
clock chart
clock correction
clock error
clock golf
clock in
clock jack
clock meter
clock movement
clock off
clock on
clock out
clock plant
clock radio
clock setter
clock spring
clock stamp
clock star
clock tower
clock up
clock watch
clock watcher
clock winder
clock winding
clock-hour
clock-making
clock-minded
clock-watcher
clock-watching
clock-work
clockface method
clockwork regularity
clod crusher
clod crushing
clod fender
clod poll
clod pulverizer
clod roller
clod smasher
close in on
close inquiry
close juncture
close likeness
close line
close main vents
close match
close of day
close off
close on
close or watchful attention
close out
close position
close quarters
close quote
close quotes
close range
close reach
close replica
close reproduction
close resemblance
close season
close secrecy
close shave
close shop
close shot
close squeak
close string
close study
close the books
close the circle
close the conning tower hatch
close the door on
close the eyes to
close the hand
close the jaws of the pincers
close the jaws of the trap
close the light
close the purse
close the shutters
close tight
close to
close to the wind
close to your chest
close to your heart
close up
close up like a clam
close upon
close with
close with the land
close your ears
close your eyes
close your eyes to
close your mind
close your mouth
close-annealed
close-at-hand
close-banded
close-barred
close-bitten
close-bodied
close-bred
close-buttoned
close-by
close-clad
close-clapped
close-clipped
close-coifed
close-compacted
close-connected
close-couched
close-coupled
close-cropped
close-curved
close-curtained
close-cut
close-drawn
close-eared
close-fertilization
close-fertilize
close-fibered
close-fights
close-fisted
close-fitting
close-gleaning
close-grain
close-grained
close-grated
close-handed
close-haul
close-hauled
close-headed
close-hooded
close-in
close-jointed
close-kept
close-knit
close-latticed
close-legged
close-lipped
close-lying
close-meshed
close-minded
close-mouthed
close-order drill
close-out
close-packed
close-partnered
close-pent
close-piled
close-pressed
close-reef
close-reefed
close-ribbed
close-rounded
close-set
close-shanked
close-shaven
close-shut
close-soled
close-standing
close-sticking
close-stool
close-talking microphone
close-tempered
close-textured
close-thinking
close-tongued
close-up
close-visaged
close-winded
close-woven
close-written
closed arc
closed book
closed chain
closed circle
closed circuit
closed company
closed cornice
closed corporation
closed couplet
closed forever to
closed fracture
closed game
closed gentian
closed loop
closed meeting
closed mind
closed mortgage
closed primary
closed scholarship
closed sentence
closed sequence
closed shell
closed shop
closed sphere
closed string
closed system
closed to
closed traverse
closed union
closed-circuit
closed-circuit cell
closed-circuit grinding
closed-circuit telegraphy
closed-circuit television
closed-circuit winding
closed-coil
closed-coil armature
closed-door
closed-end
closed-end fund
closed-end investment company
closed-in
closed-loop system
closed-minded
closed-out
closely related
closet cynic
closet drama
closet queen
closet yourself with
closeup lens
closing costs
closing error
closing machine
closing off
closing price
closing time
closing up
closings-out sale
closure by compartment
closure rail
clot-bird
clot-bur
clot-poll
cloth baler
cloth beam
cloth beetle
cloth binding
cloth board
cloth brusher
cloth cap
cloth carbonizer
cloth cleaner
cloth clipper
cloth coat
cloth cutter
cloth doubler
cloth dresser
cloth drier
cloth finisher
cloth folder
cloth fuller
cloth hall
cloth lapper
cloth maker
cloth measure
cloth measurer
cloth mercer
cloth miller
cloth napper
cloth numberer
cloth of gold
cloth oil
cloth packer
cloth paper
cloth piecer
cloth plate
cloth press
cloth presser
cloth printer
cloth prover
cloth red
cloth roll
cloth scourer
cloth shearer
cloth shrinker
cloth slitter
cloth sorter
cloth stamper
cloth stitch
cloth stretcher
cloth tape
cloth tenter
cloth tester
cloth warper
cloth weaver
cloth weigher
cloth yard
cloth yard shaft
cloth-backed
cloth-calendering
cloth-covered
cloth-cropping
cloth-cutting
cloth-drying
cloth-dyeing
cloth-earred
cloth-faced
cloth-finishing
cloth-folding
cloth-inserted
cloth-lying
cloth-lined
cloth-maker
cloth-measuring
cloth-of-gold
cloth-shearing
cloth-shrinking
cloth-smoothing
cloth-sponger
cloth-spraying
cloth-stamping
cloth-testing
cloth-weaving
cloth-winding
cloth-yard
clothbound book
clothe in words
clothe with power
clothed in darkness
clothed with authority
clothes beater
clothes bin
clothes chest
cloud of words
cloud over
cloud physics
cloud point
cloud rack
cloud ring
cloud seeder
cloud seeding
cloud shapes
cloud stone
cloud street
cloud study
cloud up
cloud-ascending
cloud-barred
cloud-born
cloud-built
cloud-capped
cloud-capped peak
cloud-compacted
cloud-compeller
cloud-compelling
cloud-covered
cloud-crammed
cloud-crossed
cloud-cuckoo-land
cloud-curtained
cloud-dispelling
cloud-dividing
cloud-drowned
cloud-eclipsed
cloud-enveloped
cloud-flecked
cloud-girt
cloud-headed
cloud-hidden
cloud-kissing
cloud-laden
cloud-led
cloud-piercing
cloud-rocked
cloud-scaling
cloud-seeding
cloud-shaped
cloud-surmounting
cloud-surrounded
cloud-topped
cloud-topped peak
cloud-touching
cloud-woven
cloud-wrapped
clouded mind
clouded over
clouded sulfur
cloudless sulphur
clouds on the horizon
cloud nail
cloud shoot
cloud shot
cloud-shoe
clove brown
clove carnation
clove cassia
clove cinnamon
clove currant
clove gillyflower
clove hitch
clove hook
clove nutmeg
clove oil
clove pepper
clove pink
clove tree
clove-gillyflower
clove-strip
cloven foot
cloven hoof
cloven-footed
cloven-footedness
cloven-hoofed
clover aphid
clover bloom
clover blossom
clover broom
clover broomrape
clover cent
clover dodder
clover fern
clover grass
clover hay
clover hay worm
clover head
clover honey
clover leaf
clover mite
clover root
co-agency
co-allied
co-ally
co-appear
co-aration
co-assessor
co-assist
co-attest
co-ax
co-bishop
co-brother
co-clause
co-conspirator
co-defendant
co-driver
co-ed
co-education
co-effect
co-efficacy
co-equate
co-establishment
co-estate
co-executor
co-exist
co-feoffee
co-guardian
co-infinite
co-inhabit
co-inhere
co-inheritor
co-labourer
co-latitude
co-lessee
co-life
co-mart
co-martyr
co-mate
co-nominee
co-obligant
co-oblige
co-obligor
co-occupant
co-occupy
co-occurrence
co-omnipotent
co-omniscient
co-op
co-operable
co-respondent
co-rival
co-sentient
co-signatory
co-signer
co-sovereign
co-star
co-starred
co-starring
co-subordinate
co-supreme
co-sureties
co-surety
co-tenant
co-tidal
co-trustee
co-une
co-unite
co-use
co-versed
co-walker
co-widow
co-wife
co-winner
co-work
co-worker
co-working
co-worship
coach box
coach carver
coach coat
coach dog
coach driver
coach driving
coach guard
coach hire
coach horse
coach house
coach maker
coach painter
coach road
coach screw
coach-and-four
coach-box
coach-built
coach-whip
coaching glass
coaching house
coal heat
coal heaver
coal hewer
coal hod
coal hoist
coal hole
coal kiln
coal labeler
coal leveler
coal loader
coal lumper
coal measures
coal mine
coal miner
coal mining
coal oil
coal operator
coal passer
coal picker
coal pipe
coal pit
coal plant
coal pocket
coal pot
coal producer
coal pulverizer
coal refiner
coal scoop
coal screen
coal screener
coal scuttle
coal shaker
coal ship
coal shovel
coal shoveler
coal sieve
coal sorter
coal spreader
coal sprinkler
coal stacker
coal storage
coal stove
coal tallyman
coal tar
coal tipper
coal tipple
coal tit
coal tongs
coal trimmer
c coal truck
c coal unloader
c coal wagon
c coal washer
c coal washery
c coal weigher
c coal wharf
c coal wharfinger
c coal workings
c coal works
c coal-bearing
c coal-black
c coal-blue
c coal-boring
c coal-breaking
c coal-burning
c coal-cutting
c coal-dark
c coal-dumping
c coal-elevating
c coal-eyed
c coal-faced
c coal-fired
c coal-fish
c coal-gas
c coal-handling
c coal-house
c coal-laden
c coal-leveling
c coal-loading
c coal-man
c coal-measure
c coal-meter
c coal-miner's lung
c coal-picking
c coal-pit
c coal-producing
c coal-pulverizing
c coal-sack
c coal-scuttle
c coal-sifting
c coal-stone
c coal-tar
c coal-tar creosote
c coal-tar crude
c coal-tar dye
c coal-tar pitch
coal-tester
c coal-tit
c coal-whipper
c coal-whipping
c coal-works
c coaling station
c coalition government
c coarse fish
c coarse texture
c coarse-featured
c coarse-fibered
c coarse-grained
c coarse-grainedness
c coarse-haired
c coarse-handed
c coarse-lipped
c coarse-minded
c coarse-skinned
c coarse-spoken
c coarse-spun
c coarse-textured
c coarse-tongued
c coarse-toothed
c coarse-wrought
c coarseness of grain
c coarseness of intellect
c coast artillery
c coast belt
c coast fever
c coast grass
c coast guard
c coast guard cutter
c coast jointweed
c coast lily
c coast live oak
c coast nutmeg
c coast patrol
c coast pilot
c coast rat
c coast redwood
c coast rhododendron
c coast seal
c coast station
c coast trade
c coast trillium
c coast-fishing
c coast-guard cutter
c coast-to-coast hookup
coastal navigation
coastal plain
coaster brake
coasting flight
coasting lead
coasting trade
coasting wagon
castwise navigation
coat armor
coat armour
coat arms
coat card
coat flower
coat hanger
coat money
coat of arms
coat of mail
coat of paint
coat shirt
coat-armour
coat-card
cot money
coat-of-mail shell
coat-of-plates construction
cot tail
coated lens
costi-mondi
costi-mundi
coating paper
coaxial cable
coaxial network
coaxial propellers
coaxial speaker
cob cactus
cob coal
cob loaf
cob meal
cob money
cob swan
cob wall
cob-iron
cob-nut
cob-swan
cobalt 60
cobalt bloom
cobalt blue
cobalt bomb
cobalt bronze
cobalt chloride
cobalt crust
cobalt glance
cobalt glass
cobalt green
cobalt hydroxide
cobalt potassium nitrite
cobalt red
cobalt sulphate
cobalt therapy
cobalt ultramarine
cobalt violet
cobalt violet deep
cobalt violet light
cobalt vitriol
cobalt yellow
cobaltiferous wad
cobalto-
cobaltous hydroxide
cobble coal
cobble gravel
cobble rammer
cobble-stone
cobbler's wax
cobra de capello
cobra plant
cobra-hooded
cobras de capello
coburg loaf
cobweb bird
cobweb houseleek
cobweb micrometer
cobwebs of antiquity
cocaine family
cocaine plant
cocaine sniffer
coccidioidal granuloma
coccus indicus
coccy-
coccygeo-anal
coccygeo-mesenteric
coccygo-
cochil sapota
cochin china
cochin oil
cochin-china
cochineal cactus
cochineal fig
cochineal insect
cochineal plant
cochit zapotl
cochlear duct
cochleariform process
cohon de lait
cochyris moth
cock a snook
cock a snook at
cock ale
cock and pie
cock bead
cock bread
cock broth
cock crowing
cock feather
cock metal
cock of the walk
cock of the woods
cock penny
cock robin
cock schnapper
cock sorrel
cock sparrow
cock the ears
cock the eye
cock up
cock's head hinge
cock's-comb
cock's-foot
cock's-head
cock-a
cock-a-doodle
cock-a-doodle--dooed
cock-a-doodle--dooring
cock-a-doodle-doo
cock-a-doodle-dooes
cock-a-hoop
cock-a-hooping
cock-a-hoopish
cock-a-hoopness
cock-a-leekie
cock-a-whoop
cock-and-bull
cock-and-bull story
cock-and-bull-story
cock-and-pinch
cock-as-hoop
cock-a-whoop
cock-bill
cock-boat
cock-brain
cock-brained
cock-crow
cock-crowing
cock-eye
cock-eyed
cock-feathered
cock-feathering
cock-fight
cock-fighting
cock-horse
cock-laird
cock-loft
cock-master
cock-match
cock-nest
cock-of-the-rock
cock-paddle
cock-penny
cock-road
cock-shut
cock-shy
cock-sparrowish
cock-stride
cock-sure
cock-tailed
cock-throppled
cock-up
cockatoo bush
cockatoo farmer
cockatoo fence
cockatoo fish
cockatoo grass
cockatoo orchis
cockatoo parakeet
cocked hat
cocker spaniel
cocket center
cocket centering
cockeye bob
cockeye pilot
cockeyed bob
cockeyed drunk
cockie-leekie
cocking cart
cockle button
cockle garden
cockle hat
cockle oast
cockle stairs
cockle stove
cockle strewer
cockle wheat
cockle-bread
cockle-headed
cockle-shell
cockles of the heart
cockles of your heart
cocks-of-the-rock
cockscomb grass
cocksfoot grass
cockspur flower
cockspur grass
cockspur hawthorn
cockspur rye
cockspur thorn
cockspur vine
cocktail chair
cocktail dress
cocktail glass
cocktail hour
cocktail lounge
cocktail party
cocktail sauce
cocktail shaker
cocktail stick
cocktail table
cocktail-party chitchat
cocky-leeky
cockyolly bird
cockyoly bird
coco de mer
coco grass
coco palm
coco plum
coco sedge
coco-plum
cocoa bean
cocoa beans
cocoa brown
cocoa butter
cocoa plant
code of morals
code of oral communication
code pennant
code state
code word
coded message
codeine cough syrup
codex rescriptus
codfish aristocracy
codfish balls
codfish cakes
codlin moth
codling moth
codlins-and-cream
coeducational school
coefficient component
coefficient of acceleration
coefficient of elasticity
coefficient of expansion
coefficient of fineness
coefficient of friction
coefficient of mutual induction
coefficient of performance
coefficient of restitution
coefficient of self-induction
coefficient of viscosity
coel-
coelanaglyphic sculpture
celiac disease
celiac plexus
celial
coelo-
coline
coeno-
coercive force
coff-fronted
coffee bag
coffee bar
coffee bean
coffee beans
coffee berry
coffee blight
coffee borer
coffee bread
coffee break
coffee cake
coffee cherry
coffee corn
coffee-room
coffee-scented
coffee-table book
coffer-dam
coffer-work
cofferdam bulkhead
coffin block
coffin boat
coffin bone
coffin carrier
coffin corner
coffin finisher
coffin handle
coffin joint
coffin maker
coffin nail
coffin plate
coffin spark
coffin text
coffin trimmer
coffin-end spoon
coffin-fashioned
coffin-headed
coffin-joint lameness
coffin-shaped
cog locomotive
cog railroad
cog railway
cog the dice
cog-wheel
cog-wood
cogent argument
cogged joint
cogging mill
cognac oil
cognate object
cognitive dissonance
cognitive psychology
cognizant of
cogswell chair
cogwheel ore
cogwheel respiration
coherence theory
cohherent light
cohune fat
cohune nut
cohune oil
cohune palm
coign of vantage
coil bobbin
coil box
coil former
coil pottery
coil spring
coil-filling
coil-testing
coil-winding
coiler can
coiler plate
coin a phrase
coin assorter
coin bag
coin box
coin case
coin changer
coin check
coin collector
coin counter
coin envelope
coin fancier
coin glass
coin gold
coin guard
coin holder
coin laundry
coin lock
coin machine
coin money
coin nickel
coin of the realm
coin planchet
coin pouch
coin ringer
coin sack
coin shell
coin silver
coin slot
coin sorter
coin stamper
coin telephone
coin tester
coin tray
coin weight
coin wrapper
coin-clipper
coin-clipping
coin-controlled
coin-counting
coin-made
coin-op
coin-operated
coin-operated laundry
coin-operated machine
coin-operating
coin-separating
coin-shaped
coin-weighing
coinage bronze
coinage of the brain
coinage ratio
coincidence counter
coined liberty
coining press
coining punch
coinsurance clause
coital exanthema
coitus interrupti
coitus interruptus
coitus reservatus
coke breeze
coke dust
coke iron
coke oven
coke plate
coke tin
coke tower
coke-bottle fuselage
coker-sack
col legno
col-
cola nut
cola seed
colatitude circle
colcannon night
colchicum root
cold abcess
cold as a welldigger's ass
cold as a witch's kiss
cold as a witch's tit
cold as charity
cold as death
cold as ice
cold as marble
cold blast
cold blood
cold cash
cold cathode
cold cathode tube
cold cautery
cold chisel
cold color
cold comfort
cold cream
cold creeps
cold cuts
cold deck
cold drink
cold duck
cold fact
cold feet
cold fish
cold frame
cold front
cold heart
cold light
cold light of reality
cold meat
cold of heart
cold pack
cold patch
cold place
cold pole
cold purgatorial fires
cold rubber
cold sauces
cold season
cold sector
cold sensation
cold shivers
cold short
cold shoulder
cold shower
cold shut
cold snap
cold sober
cold sore
cold sores
cold spell
cold steel
cold storage
cold straightener
cold sweat
cold therapy
cold turkey
cold type
cold war
cold warrior
cold water
cold wave
cold weather
cold wind
cold work
cold-blooded
cold-bloodedly
cold-bloodedness
cold-braving
cold-catching
cold-chisel
cold-chiseled
cold-chiseling
cold-chiselled
cold-chiselling
cold-complexioned
cold-cream
cold-draw
cold-drawing
cold-drawn
cold-drew
cold-engendered
cold-faced
cold-finch
cold-flow
cold-forge
cold-hammer
cold-hammered
cold-head
cold-hearted
cold-heartedly
cold-heartenedness
cold-meat fork
cold-natured
cold-nipped
cold-pack
cold-pack method
cold-press
cold-pated
cold-producing
cold-roll
cold-rolled
cold-saw
cold-short
cold-shortness
cold-shoulder
cold-shut
cold-stain
cold-spirited
cold-storage
cold-store
cold-swage
cold-sweat
cold-taking
cold-type
cold-type proof
cold-type typesetting
cold-water
cold-water cure
cold-water flat
cold-water glue
cold-water paint
cold-wave flag
cold-weld
cold-white
cold-work
cold-working
cole slaw
cole titmouse
cole-goose
cole-prophet
cole-rake
cole-slaw
cole-staff
cole-tit
colen-bell
colewort green
coliform bacillus
coliform bacteria
coliform bacterium
colinear beam antenna
coliseum ivy
coll' arco
coll-
colla tempestada
collegen disease
collapse breccia
collapse of authority
collapse ring
collapse therapy
collapsed lung
collapsing tap
collar bag
collar beam
collar bearing
collar blight
collar bolt
collar box
collar button
collar buttoner
collar case
collar cell
collar cutter
collar day
collar disease
collar edger
collar fastener
collar finisher
collar fungus
collar gauge
collar girdle
collar iron
collar ironer
collar machinist
collar maker
collar making
collar nut
collar pad
collar point
collar polisher
collar rot
collar shaper
collar starcher
collar stitcher
collar stud
collar tie
collar tree
collar work
collar-bone
collar-bound
collar-cutting
collar-shaping
collar-to-collar
collar-wearing
collard greens
collared dove
collared lizard
collared peccary
color matcher
color measurement
color mill
color miller
color mixer
color mixture
color mixture curve
color mixture function
color music
color musician
color negative film
color organ
color party
color patterns
color phase
color photograph
color photography
color point
color print
color printing
color proof
color purity
color quality
color ratio
color reversal film
color salute
color scale
color scheme
color screen
color sense
color sentinel
color separation
color sergeant
color slab
color solid
color spectrum
color spreader
color striker
color system
color target
color television
color temperature
color tone
color top
color tree
color triangle
color up
color vision
color wash
color weakness
color wheel
color with emotion
color zone
color-ball pool
color-bearer
color-blind
color-fading
color-free
color-grinding
color-matching
color-mixture curve
color-sensitize
color-testing
color-washed
colorado loco vetch
coloratura soprano
colored glasses
colored person
colored spectacles
colored stone
colorful imagination
colorful language
colorimetric quality
coloring book
coloring matter
coloring tool
colors in patches
colors of rhetoric
colossal order
colossus of knowledge
colour bar
colour code
colour filter
colour guard
colour index
colour line
colour phase
colour scheme
colour sergeant
colour supplement
colour-blind
colour-box
colpach heifer
colpo-
colt ale
colt distemper
colt evil
colt's tail
colt's-tail
colt-herb
colt-pixie
coltsfoot snakeroot
columbine blue
columbium pentoxide
columbo wood
columbus day
columella auris
columella cranii
column bone
column chromatography
column formula
column inch
column krater
column lathe
column rule
column shaper
column still
column vector
columna caelata
columna rostrata
columnae caelatae
columnar epithelium
columnar jointing
columnar structure
columnar tactics
colza oil
coma-berenices
coma vigil
comb back
comb bearer
comb case
comb disease
comb duck
comb fern
comb foundation
comb grain
comb holder
comb honey
comb jelly
comb marbling
comb morion
comb out
comb pot
comb pottery
comb rat
comb speedwell
comb ware
comb wheat grass
comb-back
comb-back chair
comb-broach
comb-brush
comb-building
comb-footed
comb-footed spider
comb-fringed grass
comb-grained
comb-out
comb-shaped
comb-toothed shark
combat area
combat boot
combat boots
combat car
combat ceiling
combat command
combat duty
combat engineer
combat fatigue
combat flight
combat group
combat high-explosive rocket
combat intelligence
combat jacket
combat neurosis
combat pilot
combat plane
combat post
combat practice
combat rehearsal
combat rocket
combat service
combat team
combat train
combat unit
combat zone
combative reaction
combed ware
combed yarn
comber board
combination analysis
combination button
combination car
combination center drill
combination chuck
combination consolidation
combination crossing
combination cut
combination door
combination frame
combination fuse
combination jig
combination last
combination lathe
combination lock
combination longwall
combination microphone
combination note
combination pedal
combination piston
combination plane
combination plate
combination plow
combination principle
combination rate
combination room
combination rubber
combination salad
combination shot
combination square
combination tone
combinatorial analysis
combinatorial mathematics
combinatorial topology
combinatory logic
combine harvester
combine in
combined effort
combined experience table
combined operation
combined operations
combing hair
combing machine
combing wool
combining form
combining weight
combust way
combustible material
combustion cell
combustion chamber
combustion engine
combustion engineer
combustion engineering
combustion furnace
combustion lag
combustion method
combustion motor
combustion spoon
combustion train
combustion tube
come a cropper
come about
come across
come across with
come afoul of
come after
come again
come again and again
come alive
come along
come among
come and get it
come and go
come apart
come apart at the seams
come around
come around to
come as a shock
come as a surprise
come as no surprise
come as you are
come at
come at your call
come away
come back
come back at
come barging in
come before
come behind
come between
come breezing in
come bustling in
come by
come by chance
come by your own
come clean
come close
come close on the heels of
come closer
come crashing down
come down
come down a peg
come down a peg or two
come down in buckets
come down in price
come down in sheets
come down in torrents
come down on
come down on the side of
come down on your marrowbones
come down out of the clouds
come down squarely in the middle
come down to earth
come down upon
come down with
come down with the needful
come face to face with
come first
come forth
come forward
come foul of
come from
come from an unexpected quarter
come from behind
come full circle
come hat in hand
come hell or high water
come home
come home to
come home to roost
come in
come in conflict with
come in contact
come in for
come in for a landing
come in for a share
come in its turn
come in like a lion
come in sight
come in through a side door
come in view
come into
come into being
come into collision
come into existence
come into man's estate
come into money
come into possession
come into the world
come into vogue
come into years of discretion
come into your head
come into your own
come last
come like a thunderbolt
come like a thunderclap
come near
come nearer
come next
come of
come of age
come off
come off it
come off second best
come on
come on bended knee
come out
come out first
come out in the open
come out in the wash
come out into the open
come out of
come out of it
come out on top
come out on top of the heap
come out with
come over
come rain or shine
come right back at
come round
come round again
come round to
come short
come sick
come sta
come through
come through with
come through with flying colors
come to
come to a center
come to a conclusion
come to a dead stop
come to a decision
come to a determination
come to a focus
come to a full stop
come to a grinding halt
come to a halt
come to a head
come to a parting of the ways
come to a point
come to a screaming halt
come to a shuddering halt
come to a stand
come to a standstill
come to a stop
come to a violent end
come to an agreement
come to an end
come to an understanding
come to an untimely end
come to anchor
come to attention
come to be
come to blows
come to close quarters
come to cold steel
come to dust
come to fruition
come to grief
come to grips with
come to hand
come to know
come to land
come to life
come to light
come to man's estate
come to maturity
come to mind
come to naught
come to no good
come to nothing
come to one
come to pass
come to pieces
come to terms
come to terms with yourself
come to the aid of
come to the fore
come to the front
come to the point
come to the rescue
come to the scratch
come to your ear
come to your ears
come to your journey's end
come to your knowledge
come to your senses
come to yourself
come together
come true
come tumbling down
come unawares
come under
come undone
come unstuck
come up
come up again
come up against
come up fighting
come up for more
come up short
come up smiling
come up to
come up to scratch
come up with
come upon
come upon the stage
come upon unexpectedly
come upon without warning
come uppermost
come what may
come with child
come your way
come-all-ye
come-along
come-at-ability
come-at-able
come-at-ability
come-by-chance
come-down
come-hither
come-hither look
come-hithery
come-off
come-on
come-on man
come-out
come-outer
comedie bouffe
comedie larmoyante
comedie rosse
comedy ballet
comedy drama
comedy of character
comedy of humors
comedy of ideas
comedy of intrigue
comedy of manners
comedy of situation
comedy prop
comedy relief
comely-featured
comers and goers
comet aster
comet finder
comet seeker
comfort room
comfort station
comfort zone
comfortable circumstances
comfortably situated
comic bass
comic book
comic muse
comic novel
comic opera
comic relief
comic section
comic strip
comic supplement
comic-iambic
comico-
coming after
coming and going
coming apart
coming ashore
coming between
coming by
coming from
coming in
coming into being
coming near
coming out
coming short
coming shy
coming to
coming to be
coming to pass
coming to terms
coming together
coming toward
coming unstuck
coming with child
coming-forth
coming-on
coming-out party
comings in
comity of nations
comma bacillus
comma blunder
comma butterfly
comma fault
comma splice
command a view of
command and general staff school
command car
command function
command guidance
command module
command money
command of idiom
command of language
command of money
command of words
command paper
command performance
command pilot
command post
command pulses
command respect
commander in chief
commanders in chief
commanding officer
comme ci comme ca
comme d'habitude
comme deux gouttes d'eau
comme il faut
commedia dell'arte
commedia dell'artes
commedias dell'arte
commedie dell'arte
commelina blue
commence firing
commencement exercises
commend to attention
commendation ninepence
comment allez-vous
comment ça va
comment upon
commerce destroyer
commerce raider
commerce raiding
commerce with
commercial affairs
commercial agency
commercial agent
commercial announcement
commercial arithmetic
commercial art
commercial artist
commercial attache
commercial aviation
commercial bank
commercial code
commercial college
commercial complex
commercial credit
commercial engineer
commercial engineering
commercial enterprise
commercial fertilizer
commercial law
commercial letter of credit
commercial paper
commercial pilot
commercial program
commercial relations
commercial school
commercial transaction
commercial transport
commercial traveler
commercial traveller
commercial vehicle
comminuted fracture
commissary clerk
commissary court
commissary general
commissary steward
commission agent
commission day
commission house
commission merchant
commission officer
commission pennant
commission plan
commission-manager plan
commissioned officer
commissioner for oaths
commissioner-general
commit a
crime
commit a gaffe
commit a solecism
commit adultery
commit an assault upon
commit an atrocity
commit an outrage
commit burglary
commit carnage
commit genocide
commit hara-kiri
commit mass destruction
commit mass murder
commit murder
commit robbery
commit sacrilege
commit sin
commit suicide
commit to an institution
commit to memory
commit to prison
commit to writing
commit yourself
commit yourself to
commitment to memory
committee consideration
committee of correspondence
committee of one
committee of the whole
committee stage
commode step
commodity dollar
commodity exchange
commodity money
commodity paper
common alum
common ancestry
common assent
common belief
common bond
common brad
common carotid
common carotid artery
common carrier
common case
common chord
common coke
common cold
common consent
common cost
common council
common councilman
common denominator
common descent
common divisor
common effort
common endeavor
common enterprise
common factor
common fee
common fraction
common gender
common good
common ground
common iliac artery
common informer
common knowledge
common laborer
common law
common logarithm
common man
common market
common measure
common men
common meter
common metre
common multiple
common nail
common name
common noun
common oak
common occurrence
common of turbary
common opal
common ownership
common people
common-variety
commonly known
commonplace book
commonplace expression
commonsense philosopher
commonsense philosophy
commonsense realism
commonsense realist
commonwealth day
communal effort
communal enterprise
communal marriage
commune with
commune with God
commune with the spirits
communicate orally
communicate verbally
communicate with
communication cord
communication engineering
communication explosion
communication leak
communication room
communication satellite
communication technology
communication theory
communication trench
communications engineer
communications industry
communications media
communications medium
communications net
communications network
communications receiver
communications relay satellite
communications revolution
communications satellite
communications ship
communications theory
communications zone
communion cloth
communion cup
communion hymn
communion in both kinds
communion in one kind
communion of saints
communion plate
communion rail
communion table
communist front
community at large
community center
community centre
community chest
community church
community college
community home
community hospital
community house
community nurse
community of interest
community of interests
community property
community school
community sentiment
community sing
community singing
community supervision
community theater
community trust
commutating pole
commutation ticket
commutative algebra
commutative contract
commutative law
commutator filling
commutator group
commutator motor
commutator pitch
commutator shell
commutator subgroup
compact car
compact of
companion bills amendment
companion cell
companion crop
companion cropping
companion flange
companion hatch
companion hatchway
companion ladder
companion piece
companion set
companion star
companionate marriage
company headquarters
company man
company officer
company reserve line
company secretary
company sergeant-major
company store
company town
company union
comparative anatomy
comparative degree
comparative estimate
comparative ethics
comparative government
comparative grammar
comparative judgment
comparative linguist
comparative linguistics
comparative literature
comparative medicine
comparative method
comparative musicology
comparative philology
comparative psychology
comparative relation
comparative religion
comparative scrutiny
comparative statement
compare and contrast
compare notes
compare point by point
compare to
compare with
compared to
compared with
comparison lamp
comparison microscope
comparison of variables
comparison shopper
comparison shopping
comparison slip
comparison spectrum
comparison star
comparison test
compass about
compass bearing
compass board
compass bowl
compass brick
compass calipers
compass card
compass corrector
compass course
compass deviation
compass deviation card
compass dial
compass direction
compass direction or course
compass error
compass flower
compass heading
compass jellyfish
compass key
compass needle
compass north
compass of mind
compass plane
compass plant
compass rafter
compass reading
compass roof
compass rose
compass saw
compass timber
compass weed
compass window
compass-headed
compensate for
compensated balance
compensated ionization chamber
compensated motor
compensating balance
compensating gear
compensating operation
compensation act
compensation balance
compensation bar
compensation insurance
compensation law
compensation neurosis
compensation pendulum
compensation water
compensatory damages
compensatory interest
compensatory reaction
compensatory spending
compete against
compound fracture
compound function
compound interest
compound interval
compound leaf
compound lens
compound magnet
compound measure
compound microscope
compound motor
compound number
compound ovary
compound pendulum
compound radical
compound sentence
compound time
compound winding
compound words
compound-complex
compound-complex sentence
compound-wound
compregnated wood
comprehensive examination
comprehensive school
compressed air
compressed petroleum gas
compressed score
compressed-air drill
compressibility drag
compression bib
compression coupling
compression cup
compression ignition
compression member
compression ratio
compression spring
compression stroke
compression tap
compression wave
compression-ignition
compression-ignition engine
compromise formation
compromise joint
compromise rail
compromise yourself
compte rendu
compte-rendu critique
comptes rendus
compulsion neurosis
compulsive character
compulsive gambler
compulsory arbitration
compulsory military service
compulsory purchase
compulsory referendum
compulsory servitude
computational linguistics
computer code
computer data
computer engineer
computer hardware
computer language
computer memory
computer part
computer parts
computer printout
computer program
computer programmer
computer proof
computer revolution
computer routine
computer software
computer technician
computer technologist
computer technology
computer typesetting
computer unit
computerized typesetting
computing machine
computing scale
comrade in arms
comrade-in-arms
con affetto
con agilita
con agitazione
con amore
con anima
con artist
con brio
con dolore
con espressione
con fuoco
con game
con man
con moto
con over
con rod
con sordino
con spirito
ccon your part
con-
conario-
concatenation control
concatenation of events
concatenation system
concave lens
concave mirror
concav-
concavo-concave
concavo-convex
concavo-convex lens
conceal your motive with
conceal yourself
conceded fact
conceit yourself
conceivably possible
conceive a dislike to
concentrate on
concentrate sprayer
concentrate the mind
concentrate the thoughts
concentrate upon
concentration camp
concentration cell
concentration ring
concentric cable
conceptual art
conceptual artist
conceptual crudity
conceptual realism
conceptual realist
conceptually crude
concern oneself
concern yourself with
concert artist
concert band
concert border
concert etude
concert flute
concert grand
concert grand piano
concert guitar
concert hall
concert music
concert overture
concert party
concert performance
concert pitch
concert season
concert tour
concerted action
concerti grossi
concertina action
concertina movement
concertina table
concerto grosso
concerto grossos
concession road
conch hat
conch shell
conch-
concho grass
conciliation court
concluding line
conclusive argument
conclusive evidence
concours d'lgance
concrete art
concrete block
concrete identity
concrete layer
concrete mixer
concrete music
concrete noun
concrete number
concrete paint
concrete poetry
concrete universal
concurrent jurisdiction
concurrent resolution
concurring opinion
concussion bellows
concussion bomb
concussion fuse
concussion grenade
concussional concussant
condemn to death
condemn to eternal punishment
condemn to hell
condemn yourself
condemned cell
condensation point
condensation polymerization
condensation trail
condensed milk
condensed version
condenser antenna
condenser microphone
condensing engine
condensing hygrometer
condensing lens
condictio triticaria
condign punishment
conditio sine qua non
condition of things
conditional convergence
conditional probability
conditional sale
conditioned reflex
conditioned response
conditioned stimulus
condole with
conduce to
conduce to health
conducive to
conduct a funeral
conduct a poll
conduct a trial
conduct an inquiry
conduct money
conduct pleadings
conduct to
conduct unbecoming a gentleman
conduct yourself
conduct yourself in the face of
conduct yourself toward
conduct yourself vis-a-vis
conduct-money
conduction current
conduction electron
conductometric titration
conductor head
conductor plug
conductor rail
conductor's baton
conduit box
conduit pipe
conduit railway
conduit system
cone adaptation
confer a benefit
confer a blessing upon
confer citizenship
confer distinction on
confer honor upon
confer with
conference at the summit
conference room
conference table
confession equality
confession of faith
confide in
confide to
confidence game
confidence interval
confidence limits
confidence man
confidence trick
confidential communication
confidential information
confirm in
confirmation class
confirmed bachelor
confirmed liar
conflict of interest
conflict of laws
conflict of sounds
conflict with
confluence of minds
confluent stream
conform map projection
conform representation
conform to
conform to fact
conform with
conformable to
conformal projection
conformation other-direction
conformity to fact or reality
confound it
confront each other
confront with
confrontation politics
confrontation therapy
confused flour beetle
confusion of sounds
confusion of tongues
confusion worse confounded
conga drum
congee house
congenital defect
congenital disease
congenital heart disease
congenital hypophosphatasia
congenital idiot
congenital immunity
congenital syphilis
conger doust
conger eel
conger-eel
congestive heart failure
conglobate gland
conglomerate corporation
congo dye
congo eel
congo red
congo snake
congratulate yourself
congregational christian
congress boot
congress gaiter
congress shoe
congressional caucus
congressional district
congressional election
congressional immunity
congressional investigation
congressional medal
congressman-at-large
congressmen-at-large
congruence sign
congruent with
conic projection
conic section
conic sections
conical pendulum
conical-shaped
conico-
conico-cylindrical
conico-elongate
conico-hemispherical
conico-ovate
conico-ovoid
conico-subhemispherical
conico-subulate
coniferyl alcohol
coning angle
conjoint therapy
conjugal bond
conjugal knot
conjugal love
conjugal right
conjugal tie
conjugal axis
conjugal numbers
conjugal solution
conjugalated protein
conjugation canal
conjugation cell
conjugato-
conjugato-palmate
conjugato-pinnate
conjunction-reduction
conjunctive adverb
conjuncture of events
conjure man
conjure spirits
conjure up
conjure up a vision
conjure up spirits
conk out
connective-perfoliate
connect couple
connect up
connect with
connecting link
connecting rod
connection angle
connection bar
connection with
connective tissue
conning tower
conning tower hatch
connexion fit
connive at
connoisseur of food
connoisseur of wine
conoido-hemispherical
conoido-rotundate
conquering hero
conscience clause
conscience money
conscience-proof
conscience-smitten
conscience-stricken
conscience-striken
conscientious objector
conscious of
conscious of your place
conscious self
consciousness raising
consciousness-expanding
consciousness-expansion
conscript fathers
consecrate to
consecrated bread
consecrated elements
consecutive intervals
consensus gentium
consensus of opinion
consensus omnium
consensus politics
consent by implication
consent decree
consent rule
consent to
consent to silently
consenting adult
consequent stream
conservation of angular momentum
conservation of charge
conservation of energy
conservation of linear momentum
conservation of mass
conservation of mass and energy
conservation of matter
conservation of momentum
conservation of parity
conservative treatment
consider every angle
consider pro and con
consider the circumstances
consider the source
consign to a place
consign to hell
consign to oblivion
consign to the grave
consign to the scrap heap
consigned to oblivion
consignment marketing
consignment note
consist in
consist of
consist with
consistent with
consisting of
consolation game
consolation match
consolation prize
console table
consolidated annuities
consolidated fund
consolidated school
consolidated stock
consolidating company
consonant chord
consonant shift
consonant shifting
consonant system
consonantal alliteration
consort with
conspicuous by its absence
conspicuous consumption
conspicuous gallantry
conspicuous waste
constable glass
constant attention
constant flow
constant friend
constant of gravitation
constant of integration
constant pressure
constant thrust
constant-chord-rotor helicopter
constantly recur to
constantly revert to
constitute a whole
constituted authority
constitutional amendment
constitutional convention
constitutional freedom
constitutional government
constitutional guarantees
constitutional law
constitutional lawyer
constitutional medicine
constitutional monarch
constitutional monarchy
constitutional psychology
contempt of Congress
contend about
contend against
contend for
contend with
content analysis
content subject
content word
content yourself with
contents page
contest a seat
contest of fleetness
contest of speed
contested election
contextual definition
continent-wide
continental breakfast
continental climate
continental code
continental divide
continental drift
continental island
continental quilt
continental shelf
continental slope
continental stitch
continental system
contingency fund
contingency method
contingency reserve
contingency table
contingent beneficiary
contingent fee
contingent fund
contingent interest
contingent liability
contingent on
contingent reserve
continuance in action
continuation day
continuation school
continue the same
continue to be
continue to exist
continued fever
continued fraction
continued proportion
continuing education
continuity clerk
continuity equation
continuity girl
continuity writer
continuous brake
continuous casting
continuous creation
continuous creation theory
continuous miner
continuous spectrum
continuous stationery
continuous tenure
continuous tone
continuous wave oscillator
continuous wave radar
continuous waves
continuous-expansion engine
continuous-wave transmitter
continuum hypothesis
continuum theory
contour bob
contour chair
contour check
contour curtain
contour curve
contour farming
contour feather
contour feathers
contour follower
contour integration
contour interval
contour line
contour map
contour ploughing
contour plowing
contour sheet
contra bassoon
contra bonos mores
contra trombone
contra-
contra-acting
contra-approach
contra-dance
contra-guide rudder
contra-indicant
contra-indicate
contra-indication
contra-ion
contra-lode
contra-propeller construction
contra-related
contra-remonstrant
contra-rotating air screws
contra-rotation
contraband of war
contraceptive foam
contract a habit
contract an engagement
contract bond
contract bridge
contract by deed
contract for
contract matrimony
contract of record
contract out
contract practice
contract quasi
contract yourself
contractile cell
contraction fit
contraction joint
contraction rule
contraction theory
contradict itself
contraria contrariis curantur
contrarotating propeller
contrary assertion
contrary motion
contrary terms
contrary to
contrary to all expectation
contrary to fact
contrary to law
contrary to order and discipline
contrary to reason
contrary, the
contrary-minded
contrast bath
contrast control
contrast medium
contrast with
contrastive juxtaposition
contrate wheel
contre-
contre-dance
contre-partie
contribute to
contribution clause
contributory negligence
control account
control action
control agent
control assay
control board
control center
control chart
control column
control desk
control electrode
control element
control engineer
control experiment
control feelings
control grid
control group
control indicator
control mark
control means
control mechanism
control mechanisms
control panel
control relay
control resistor
control rod
control room
control signals
control station
control stick
control surface
control survey
control system
control the carnal man
control the fleshly lusts
control the old Adam
control the price of
control tower
control transformer
control valve
control wires
control your appetites
control yourself
controllable-pitch
controlled access highway
controlled association
controlled association test
controlled experiment
controlled price
controlled quantity
controller general
controlling account
controlling depth
controversial point
conus medullaris
conval lily
convalescent home
convalescent hospital
convected heat
convection current
convective activity
convective discharge
convector heat
convenience food
convenient to
convent cloth
convent school
convention hall
conventional phrase
conventional representation
conventional symbol
conventional usage
conventional war
conventional warfare
conventional weapons
conventual prior
convergence frequency
convergence of events
convergency factor
convergent evolution
convergent squint
convergent strabismus
convergent thinking
converging lens
conversant with
conversation chair
conversation piece
conversational English
conversational partner
conversational quality
converse in
converse motion
converse with
conversion cost
conversion factor
conversion hysteria
conversion neurosis
conversion ratio
conversion reaction
conversion table
conversion value
convert into cash
convert to
convert to use
converted steel
converter reactor
convertible bond
convertible coupe
convertible debenture
convertible preferred stock
convertible securities
convertible sedan
convertible top
convex hull
convex lens
convex mirror
convex point set
convex polygon
convex-concave
convexo-
convexo-concave
convexo-convex
convexo-plane
convey an impression of
conveyor belt
conveyor chain
convict goods
convict yourself
convince to the contrary
convince yourself
convolvulus moth
convulsion root
convulsive therapy
cony-catch
coo-coo
cooch dance
cooch show
coochie show
coochin york
cooee bird
cook accounts
cook off
cook out
cook stove
cook up
cook wrasse
cook your goose
cook-general
cook-out
cooked-up
cookery book
cookery stove
cookie cutter
cookie press
cooking-range
cooks-general
cooky cutter
cool acceptance
cool as a cucumber
cool bag
cool breeze
cool color
cool down
cool head
cool it
cool jazz
cool judgment
cool million
cool off
cool off the economy
cool out
cool the economy
cool your heels
cool-headed
cool-headedly
cool-headedness
cooling breeze
cooling degree-day
cooling down
cooling of the economy
cooling off
cooling off of the economy
cooling system
cooling-card
cooling-off
cooling-off period
coom-ceiled
coon bear
coon cat
coon dog
coon's age
coonskin cap
coop in
coop up
coop-ed-in
cooper's-wood
cooperative apartment
cooperative apartment house
cooperative bank
cooperative credit union
cooperative farm
cooperative society
cooperative store
coopered joint
coordinate bond
coordinate clause
coordinate geometry
coordinate paper
coordinate system
coordinated operations
coordinated panel
coordinating conjunction
coordination complex
coordination compound
coordination number
coot-footed
cooter grass
cootie garage
cop a plea
cop out
cop-out
cop-rose
copaiba balsam
copaiba oil
copaiba resin
copaiva oil
copaie wood
copal ether
cope chisel
cope cutter
cope with
cope-stone
copen blue
copenhagen blue
coping saw
coping stone
copper acetate
copper acetoarsenite
copper arsenite
cope barilla
copper beech
copper bender
copper brazer
copper caster
copper cyanide
copper engraver
copper extractor
copper foil
copper hydroxide
copper iris
copper mill
copper millman
copper mine
copper miner
copper mining
copper pyrites
copper red
copper refiner
copper refinery
copper smelter
copper spot
copper sulfate
copper sulphate
copper worker
copper-alloyed
copper-bearing
copper-bellied
copper-belly
copper-bottomed
copper-coated
copper-colored
copper-covered
copper-faced
copper-fastened
copper-headed
copper-leaf
copper-leaves
copper-lined
copper-melting
copper-plate
copper-red
copper-skinned
copper-smelting
copper-smith
copper-toed
copper-worm
copperas black
copperplate engraving
copperplate hand
copperplate press
copperplate print
coppery-tailed
coppice oak
coppice shoot
coppice-feathered
coppice-topped
copple-crown
copple-crowned
copple-stone
copr-
copra oil
copro-
cops and robbers
copse cutter
copse-clad
copse-covered
copulative asyndeton
copulative conjunction
copy after
copy camera
copy chief
copy desk
copy edit
copy editor
copy out
copy paper
copy taster
copy typist
copy-edit
copybook hand
copying ink
copying machine
copying machines
copying paper
copying press
copyright deposit library
copyright infringer
copyright page
coa au vin
coq de bruyere
coquet with
coquet with the idea
coquette bob
coquettish glances
coquilla nut
coquille lens
coquilles Saint-Jacques
coquimbo owl
coquito palm
cor adiposum
cor anglais
cor arteriosum
cor biloculare
cor blimey
cor bovinum
cor juvenum
cor pseudotriloculare biatriatum
cor pulmonale
cor sinistrum
cor triatriatum
cor triloculare biatriatum
cor triloculare biventriculare
cor villosum
cor-
coraco-
coral bead
coral bean
coral bells
coral fern
coral grinder
coral head
coral heads
coral honeysuckle
coral island
coral jasmine
coral lily
coral pink
coral plant
coral reef
coral root
coral snake
coral stitch
coral tree
coral vine
coral-bead tree
coral-beaded
coral-bound
coral-built
coral-buttoned
coral-colored
coral-fishing
coral-girt
coral-making
coral-plant
coral-producing
coral-red
coral-rooted
coral-secreting
coral-snake
coral-tree
coral-wood
coram judice
coram nobis
coram non judice
coram populo
corbel arch
corbel out
corbel step
corbel table
corbel vault
corbie gable
corbie-step
corbin bone
cord conductor
cord connector
cord foot
cord grass
cord maker
cord-connector body
cordage tree
cordate-amplexicaul
cordate-lanceolate
cordate-oblong
cordate-sagittate
cordeau detonant
cordeau fuse
corded pahoehoe
cordia pulmonalia
cordial friendship
cordial understanding
cordial welcome
cordon bleu
cordon off
cordon sanitaire
cordonned off
cordonning off
cordons bleus
cordons sanitaire
corduroy road
cordwood saw
core bar
core barrel
core binder
core boring
core builder
core curriculum
core drawing
core flour
core of your being
core sand
core store
core tester
core time
core vent
core wire
core-
core-baking
core-box plane
core-cutting
core-drying
core-jarring
coriander oil
coriander seed
coriolis effect
coriolis force
cork borer
cork cambium
cork cutter
cork jacket
cork oak
cork puller
cork shredder
cork sorter
cork tile
cork tree
cork up
cork-bark elm
cork-barked
cork-bearing
cork-boring
cork-cutting
cork-forming
cork-grinding
cork-heeled
cork-lined
cork-tipped
corking pin
corking up
corking-pin
corkscrew flower
corkscrew grass
corkwood cotton
corky-headed
corky-winged
corno-
corn belt
corn borer
corn bread
corn bunting
corn cackle
corn cake
corn cleaner
corn cockle
corn color
corn crake
corn dab
corn dodger
corn drier
corn earworm
corn exchange
corn factor
corn field
corn flakes
corn flour
corn fritter
corn god
corn grass
corn grinder
corn grits
corn huller
corn law
corn lily
corn liquor
corn marigold
corn mayweed
corn meal
corn mint
corn muffin
corn oil
corn on the cob
corn picker
corn picking
corn pit
corn pone
corn popper
corn poppy
corn root aphid
corn rose
corn row
corn salad
corn shock
corn shucker
corn shredder
corn shuck
corn shucking
corn silk
corn smut
corn snake
corn snow
corn spirit
corn stack
corn stubble
corn sugar
corn syrup
corn tash
corn tester
corn thresher
corn whiskey
corn whisky
corn-beads
corn-cob
corn-colored
corn-cracker
corn-crake
corn-devouring
corn-ear worm
corn-eater
corn-exporting
corn-fed
corn-feeding
corn-flag
corn-flour
corn-flower
corn-growing
corn-husk
corn-law
corn-master
corn-picker
corn-planting
corn-producing
corn-rent
corn-salad
corn-snake
corn-stalk
corn cob pipe
corne de vache
cornea lens
corneal reflex
corneal transplant
corned beef
corned beef and cabbage
corned beef hash
corned beef sandwich
cornelian cherry
corneo-
corner accessory
corner bead
corner block
corner cabinet
corner chair
corner chisel
corner cupboard
corner in
corner man
corner of the eye
corner of the memory
corner on the market
corner reflector
corner table
corner the market
corner trowel
corner-man
corner-stone
cornes de vache
cornet a pistons
cornet-a-pistons
cornfield ant
cornfield pea
cornflower blue
cornice brake
corno di caccia
corno flute
cornstalk disease
cornstalk pine
cornstarchy airs
cornu ammonis
cornucopia leg
cornucopia sofa
corny joke
coro-
corolla limb
corolla tube
coromandel wood
corona australis
corona borealis
corona discharge
corona lucis
corona radiata
coroneae radiatae
coronae roots
coronae suture
coronary artery
coronary band
coronary cushion
coronary heart disease
coronary insufficiency
coronary occlusion
coronary ring
coronary thrombosis
coronation oath
coroner's inquest
coroner's jury
coronet braid
coronet of rank
corozo nut
corpora allata
corpora callosa
corpora cardiaca
corpora lutea
corpora striata
corporal punishment
corporal’s guard
corporate arms
corporate body
corporate bond
corporate headquarters
corporate image
corporate stock
corporation cock
corporation law
corporation lawyer
corporation securities
corporation stock
corporation stop
corporation tax
corporeal hereditament
corps area
corps d'armee
corps d'elite
corps de ballet
corps de garde
corps diplomatique
corps of advisers
corps of cadets
corps of engineers
corps of signals
corps troops
corpse candle
corpse gate
corpse reviver
corpse-candle
corpulent person
corpus allatum
corpus callosum
corpus cardiacum
corpus christi
corpus delicti
corpus juris
corpus luteum
corpus luteum hormone
corpus striatum
corpus vile
corporcular theory
correct English
correct copy
correct deportment
correct ear
correct in your behavior
correct in your manners
correcting plate
correcting signals
correction line
correction of error
corrective action
corrector plate
correlation coefficient
correlation ratio
correlative conjunction
correspond to
correspond with
correspondence column
correspondence course
correspondence principle
correspondence school
correspondence theory
corridor of time
corridors of time
corroboratory evidence
corrosion borders
corrosive mercury chloride
corrosive sublimate
corrugated iron
corrugated paper
corrugation irrigation
corrupt administration
corrupt politician
corrupt practices act
corruption of blood
corruption of speech
corset cover
corset designer
corsetier corsetier
cortex parenchyma
cortical epilepsy
cortical tissue
cortico-
corydalis green
cos lettuce
cosine circle
cosmetic dermatitis
cosmetic operation
cosmetic surgery
cosmic constant
cosmic dust
cosmic evolution
cosmic noise
cosmic particle
cosmic particles
cosmic philosopher
cosmic philosophy
cosmic radiation
cosmic ray
cosmic ray bombardment
cosmic ray counter
cosmic rays
cosmic space
cosmic static
cosmic stepping-stone
cosmic time
cosmical geology
cosmico-natural
cosmo-
cosmological argument
cosmological proof
cossack green
cossack hat
cost a packet
cost a pretty penny
cost accountant
cost accounting
cost an arm and a leg
cost and freight
cost benefit analysis
cost card
cost center
cost insurance and freight
cost keeper
cost keeping
cost ledger
cost little
cost money
cost much
cost next to nothing
cost nothing
cost of living
cost out
cost plus
cost sheet
cost system
cost unit
cost what it may
cost you
cost-account
cost-accounting system
cost-effective
cost-free
cost-of-living allowance
cost-of-living index
cost-plus
cost-push inflation
costal margin
costal vein
costal-nerved
costard-monger
costing-out
costless thing
costo-
costume designer
costume drama
costume jewellery
costume jewelry
costume party
costume piece
costus oil
cosy along
cot bar
cot case
cot death
cotarnine hydrochloride
cote-hardie
cotelette de mouton
cotelette de porc frais
cotelette de veau
cotta grass
cottage bonnet
cottage cheese
cottage china
cottage fried potatoes
cottage hospital
cottage industry
cottage loaf
cottage piano
cottage pie
cottage pudding
cottage tulip
cottage window
cotter drill
cotter file
cotter mill
cotter pin
cotter slot
cotter way
cottier system
cotton anthracnose
cotton aphid
cotton back
cotton bagging
cotton boll
cotton bolling
cotton bolling
cotton cake
cotton cambric
cotton candy
cotton chiffon
cotton chopper
cotton cleaner
cotton comber
cotton coverer
cotton crepe
cotton cutter
cotton damask
cotton dryer
cotton duck
cotton dyer
cotton factor
cotton factory
cotton feeder
cotton fern
cotton field
cotton filler
cotton flannel
cotton floater
cotton gin
cotton ginner
cotton grass
cotton grower
cotton gum
cotton harvester
cotton jenny
cotton lint
cotton linters
cotton lord
cotton mill
cotton mixer
cotton moth
cotton mouse
cotton mouth
cotton mouths
cotton mule
cotton netting
cotton oil
cotton on
cotton opener
cotton packer
cotton picker
cotton plant
cotton plantation
cotton planter
cotton plunger
cotton plush
cotton pongee
cotton powder
cotton preparer
cotton press
cotton print

cotton printer

cotton raiser

cotton rat

cotton rock

cotton root rot

cotton rose

cotton rush

cotton rust

cotton sampler

cotton seed

cotton shipper

cotton sled

cotton sorter

cotton speeder

cotton spinner

cotton spooler

cotton stainer

cotton stripper

cotton sugar

cotton sweep

cotton tapestry

cotton teal

cotton teaser

cotton thistle

cotton thread

cotton tie

cotton to

cotton tree

cotton twist

cotton twister

cotton wadding

cotton warehouseman

cotton warp

cotton waste

cotton weigher

cotton wick

cotton wicking

cotton wilt

cotton winder

cotton wool

cotton works

cotton worm

cotton yarn

cotton-backed

cotton-baling

cotton-bleaching

cotton-clad
cotton-covered
cotton-dyeing
cotton-ginning
cotton-growing
cotton-knitting
cotton-picking
cotton-planting
cotton-printing
cotton-producing
cotton-root bark
cotton-sampling
cotton-sick
cotton-spinning
cotton-weaving
cotton-wicked
cottonseed cake
cottonseed feed
cottonseed flour
cottonseed meal
cottonseed oil
cottonseed tree
cottontail rabbit
cottony cloud
cottony jujube
cottony-cushion scale
cotyl-
cou-cou
couch bed
couch grass
couch in terms
couch maker
couch roll
couch wheat
couch your lance
couch, the
couched harp
couching stitch
cough drop
cough drops
cough medicine
cough mixture
cough sirup
cough syrup
cough up
could be
could sink through the floor
couldn't care less about
coulee cricket
couleur de rose
coulomb meter
coumarone resin
coumarone resins
coumarone-indene
coumarone-indene resin
council bill
council board
council fire
council house
council of ministers
council of state
council of war
council school
council table
council tool
council-manager plan
counsel of perfection
counsel-keeper
counselor-at-law
counselors-at-law
count against
count book
count calories
count down
count for
count heads
count hook
count in
count me out
count noses
count noun
count number
count of
count off
count on
count out
count palatine
count plate
count sheep
count the beats
count ties
count up
count upon
count votes
count wheel
count-rate meter
countably additive function
counter-earth
counter-embattled
counter-embowed
counter-ermine
counter-evidence
counter-extension
counter-faced
counter-faller
counter-fessed
counter-fissure
counter-force
counter-gauge
counter-gear
counter-guard
counter-hem
counter-indication
counter-influence
counter-ion
counter-irritant
counter-jumper
counter-lath
counter-letter
counter-lode
counter-marque
counter-motion
counter-move
counter-naient
counter-nebule
counter-off
counter-opening
counter-paled
counter-parade
counter-parole
counter-party
counter-passant
counter-pawn
counter-penalty
counter-pole
counter-potent
counter-pressure
counter-price
counter-proof
counter-quartered
counter-raguled
counter-rampant
counter-reformation
counter-revolution
counter-revolutionary
counter-riposte
counter-roll
counter-round
counter-salient
counter-scale
counter-scuffle
counter-sea
counter-seal
counter-secure
counter-spell
counter-statement
counter-step
counter-taste
counter-tendency
counter-tenor
counter-tide
counter-tierce
counter-time
counter-trench
counter-tripping
counter-turn
counter-vote
counter-wait
counter-wall
counter-weight
counter-worker
counterfeit money
counterintelligence agent
counterpoint rhythm
counterrotating propeller
counterscarp gallery
countersink bit
countertenor clef
counterweight system
counties palatine
counting glass
counting heads
counting house
counting machine
counting noses
counting number
counting on the fingers
counting room
counting scales
counting tube
counting-out rhyme
countless as the sands
countless as the stars
county board
county borough
county building
county clerk
county college
county commissioner
county constabulary
county convention
county council
county court
county courthouse
county fair
county farm
county home
county house
county library
county mutual
county palatine
county police
county rate
county road
county seat
county site
county supervisor
county town
county-wide
coup d'Oeil
coup d'essai
coup d'état
coup d'oeil
coup d'oil
coup d'at
coup de foudre
coup de gr
coup de grace
coup de main
coup de maître
coup de plume
coup de poing
coup de soleil
coup de théâtre
coup de theatre
coup feather
coup-cart
coupe-gorge
couple dancing
couple up
couple with
couple-beggar
couple-close
coupled roof
coupled with
coupler socket
coupling box
coupling circuit
coupling coefficient
coupling pin
coupling rein
coupling rod
coupling strap
coupon bond
coupon clipper
coupon clippers
coupon off
coupon on
coupon rate
coups d'essai
coups de main
coups de plume
coups de poing
cour d'honneur
courage fou
courageous act
courbaril copal
coureur de bois
coureurs de bois
courge green
cours d'honneur
course ahead
course light
course of action
course of study
course of things
course of time
course protractor
coursing joint
court Christian
court bond
court bouillon
court calendar
court card
court cards
court christian
court circular
court cupboard
court dance
court danger
court day
court destruction
court dress
court fool
court game
court gray
court guide
court hand
court leet
court martial
court of admiralty
court of appeals
court of arbitration
court of assize
court of attachments
court of chancery
court of claims
court of common pleas
court of conscience
court of domestic relations
court of dustyfoot
court of equity
court of errors
court of first instance
court of guard
court of honor
court of honour
court of inquiry
court of justice
court of last resort
court of law
court of love
court of piepoudre
court of probate
court of record
court of requests
court of review
court of sessions
court of wards
court of wards and liveries
court party
court plaster
court reporter
court roll
court shoe
court tennis
court-appointed lawyer
court-baron
court-bouillon
court-cupboard
court-customary
court-dress
court-house
court-leet
court-mante

court-martial
court-martials
court-noue
court-plaster
court-tialed
court-tialing
court-tialled
court-tialling
court-yard
courtesy card
courtesy light
courtesy title
courting chair
courting disaster
courting glass
courting mirror
courtly love
courtly politeness
courts Christian
courts-martial
courtship-and-matrimony
cousin once removed
cousin twice removed
cousin-german
cousin-in-law
cousins-german
couvre-feu
covalent bond
cove lighting
cove oyster
cove stripe
cove trowel
coved vault
coven-tree
covenant of indemnity
covenant of salt
covenant of warranty
cover charge
cover crop
cover design
cover girl
cover glass
cover ground
cover memory
cover note
cover paper
cover plate
cover point
cover slip
cover stone
cover story
cover title
cover up
cover up for
cover up your tracks
cover version
cover with excuses
cover your path
cover your short
cover yourself with
cover-point
cover-shame
cover-shoulder
cover-slut
cover-up
covered smut
covered waggon
covered wagon
covered way
covering board
covering letter
covering material
covering materials
covering shorts
covering up
coversed sine
covert cloth
covert coat
covert way
covert-baron
covin-tree
cow ant
cow barn
cow basil
cow bean
cow beet
cow blackbird
cow bunting
cow byre
cow chervil
cow chips
cow clover
cow cocky
cow college
cow corn
cow creamer
cow cress
cow flops
cow garlic
cow grass
cow hand
cow hock
cow keeper
cow killer
cow lily
cow oak
cow parsley
cow parsnip
cow pats
cow pillow
cow pilot
cow plant
cow poison
cow pony
cow rattle
cow shark
cow sorrel
cow testing
cow thistle
cow town
cow tree
cow vetch
cow's tail
cow-bane
cow-boy
cow-cutting horse
cow-eyed
cow-fat
cow-fish
cow-goddess
cow-headed
cow-hide
cow-hitch
cow-hocked
cow-itch
cow-lice
cow-mumble
cow-nosed
cow-pox
cow-stealing
cow-tongue
cowboy boot
cowboy boots
cowboy hat
cowboy pool
cowboy saddle
cowboys and Indians
cowhage cherry
cowl lamp
cowl neckline
cowl-shaped
cowled night
cowpea weevil
cowpea wilt
cowper's gland
cowrie pine
cowry bird
cowslip wine
coxo-femoral
coxsackie virus
coy Spring
coy duck
coyote blast
coyote weed
coyote-brush
coyote-bush
cozy chat
cozy fire
crab Louis
crab apple
crab cactus
crab canon
crab claw
crab float
crab grass
crab harrow
crab locomotion
crab locomotive
crab louse
crab meat
crab nut
crab oil
crab plover
crab pot
crab reel locomotive
crab spider
crab stock
crab thistle
crab tree
crab winch
crab yaws
crab-eating
crab-faced
crab-fish
crab-grass
crab-harrow
crab-plover
crab-shed
crab-sidle
crabbed age
crabbed hand
crabbing machine
crabeater seal
crack a book
crack a crib
crack a joke
crack a safe
crack a smile
crack down
crack down on
crack of dawn
crack of doom
crack off
crack on
crack on sail
crack open
crack shot
crack the whip
crack up
crack willow
 cracking wise
crack your brains
crack your invention
 cracking
 cracking-loo
 cracking-off
 cracking-the-whip
crack-up
crack-willow
 cracked on
 cracked voice
 cracked-wheat bread
cracker bonbon
cracker jack
cracker mill
cracker-barrel
cracker-off
cracker-on
cracker-open
crackers-on
cracking still
cracklin' bread
crackling bread
crackling fire
cradle bar
cradle book
cradle cannon
cradle holding
cradle maker
cradle orchid
cradle roll
cradle roof
cradle scythe
cradle snatcher
cradle snatching
cradle vault
cradle-shaped
cradle-to-grave security
craft guild
craft paper
craft union
craft unionist
crafty rascal
crag martin
crag swallow
crag-and-tail
crag-bound
crag-built
crag-carven
crag-covered
crag-fast
crake-needles
cram down your throat
cram in
cram the mind
cram the mind with
cram up
cram with facts
cram-full
crambo clink
crambo jingle
crammed full
cramp bark
cramp bone
cramp iron
cramp ring
cramp your style
cramp-iron
cramped hand
cramped ideas
cranberry blast
cranberry bog
cranberry bush
cranberry gall
cranberry glass
cranberry gourd
cranberry marsh
cranberry sauce
cranberry scald
cranberry tree
cranberry worm
crance iron
crane driver
crane fly
crane gray
crane line
crane the neck
crane your neck
crane’s-bill
crane-fly
cranging hook
crani-
cranial index
cranial nerve
cranio-
cranio-acromial
cranio-aural
craniosacral nervous system
cranium amulet
crank arm
crank axle
crank brace
crank chain
crank disk
crank handle
crank hanger
crank in
crank letter
crank path
crank pit
crank plane
crank press
crank shaper
crank throw
crank up
crank web
crank wheel
crank-driven
crank-sided
crap around
crap game
crap grass
crap out
crap shooter
crap shooting
crap table
crapaud stone
crapaudine door
crape fern
crape jasmine
crape myrtle
crape needle
crape ring
crape-fish
crappit head
crappit-head
crash barrier
crash boat
crash cymbal
crash dive
crash helmet
crash in
crash into
crash land
crash landing
crash of thunder
crash out
crash pad
crash program
crash the gates
crash wagon
crash wall
crash-dive
crash-dived
crash-diving
crash-dove
crash-land
crash-landing
crashing bore
crass ignorance
cratch cradle
crate maker
crater basin
crater-shaped
crave after
craw-craw
crawfish out
crawl after
crawl box
crawl in
crawl into your shell
crawl out of
crawl space
crawl with
crawl-a-bottom
crawl-up
crawler tractor
crawling peg
crayon board
crayon engraving
crazed-headed
crazier than a bedbug
crazier than a coot
crazier than a loon
crazy about
crazy bone
crazy fancy
crazy for
crazy house
crazy idea
crazy like a fox
crazy over
crazy pavement
crazy paving
crazy quilt
crazy to
crazy top
crazy-drunk
crazy-headed
crazy-looking
crazy-mad
crazy-pate
crazy-paving
crazy-work
cream beige
cream buff
cream bush
cream buyer
cream caustic
cream cheese
cream cooler
cream cracker
cream dipper
cream freezer
cream gatherer
cream gauge
cream ice
cream ladle
cream nut
cream of society
cream of tartar
cream of the crop
cream of the jest
cream pail
cream pitcher
cream puff
cream puff paste
cream puff pasted
cream puff pastry
cream sauce
cream separator
cream sherry
cream soda
cream soup
cream stirrer
cream tea
cream tester
cream tube
cream whip
cream whipper
cream-cheese
cream-color
cream-colored
cream-faced
cream-flowered
cream-slice
cream-soup cup
cream-soup spoon
cream-white
cream-yellow
crease-resistant
create a character
create a disturbance
create a riot
create a role
created being
created nature
created universe
creatine phosphate
creating again
creating once more
creating over
creation of the brain
creative ability
creative artist
creative effort
creative evolution
creative imagination
creative power
creative thought
creative writer
creative writing
creature comfort
creature comforts
creature of habit
creature of the imagination
crecrebri-
credence shelf
credence table
credentials committee
credenza bookcase
credenza buffet
credibility gap
credit account
credit agency
credit card
credit currency
credit hour
credit instrument
credit insurance
credit life insurance
credit limit
credit line
credit man
credit manager
credit memo
credit memorandum
credit money
credit rating
credit slip
credit squeeze
credit standing
credit to
credit to your account
credit union
credit with
credulous person
creedal statement
creek bed
creek broadbill
creek chub
creek duck
creek fern
creek grass
creek gum
creek maple
creek nettle
creek sedge
creek thatch
creep feeder
creep in
creep into a corner
creep into the good graces of
creep out of
creep up on
creep with
creep-fed
creep-feed
creep-feeding
creeper fowl
creeper tractor
creepie-peepie
creeping Charlie
creeping Jennie
creeping barberry
creeping barrage
creeping bent
creeping bent grass
creeping buttercup
creeping cinquefoil
creeping eruption
creeping fescue
creeping flesh
creeping forget-me-not
creeping juniper
creeping like snail
creeping lily-turf
creeping myrtle
creeping of the flesh
creeping sheet
creeping sickness
creeping snowberry
creeping socialism
creeping thing
creeping thistle
creeping thyme
creepy-crawly
creme Yvette
creme d'amande
creme de cacao
creme de cassis
creme de la creme
creme de menthe
creme de moka
creme de noyau
cremorne bolt
crenate-leaved
crenate-toothed
crenated molding
creole dialect
creole language
creole-fish
creole-fishes
creolized language
creosote bush
creosote carbonate
creosote oil
crepe Suzette
crepe de Chine
crepe de chine
crepe hair
crepe lisse
crepe marocain
crepe meteor
crepe myrtle
crepe paper
crepe rubber
crepe suzette
crepe wool
crepe-backed
crepe-paper
crepuscular light
crepuscular ray
crescendo pedal
crescent moon
crescent operation
crescent roll
crescent spot
crescent truss
crescent-formed
crescent-lit
crescent-pointed
crescent-shaped
crescit eundo
cresol iodide
cresol red
cress family
cress green
cress rocket
crest cloud
crest coronet
crest factor
crest rail
crest table
crest tile
crest voltmeter
crest-fallen
crested auklet
crested dog's-tail
crested flycatcher
crested hair grass
crested iris
crested lizard
crested poppy
crested swift
crested tit
cresylic acid
cretaceo-
crevalle jack
crew chief
crew compartment
crew cut
crew haircut
crew list
crew neck
crew neckline
crew socks
crew trainer
crew-cropped
crew-neck sweater
crew-necked
crewel needle
crewel stitch
criminal tendency
crimping brake
crimping house
crimping iron
crimping machine
crimping pin
crimpy-haired
 crimson clover
crimson flag
crimson madder
crimson sage
crimson-banded
crimson-barred
crimson-billed
crimson-carmine
crimson-colored
crimson-dyed
crimson-fronted
crimson-lined
crimson-petaled
crimson-purple
crimson-scarfed
crimson-spotted
crimson-tipped
crimson-veined
crimson-violet
crinc-
cringle to
cringle-crangle
crini-
crinkle leaf
crinkle-crankle
crinkly-haired
crinkum-crankum
crinoline stretcher
crinum lily
crio-
cripple rafter
cripple stopper
crippling attack
cris de guerre
crisis theologian
crisis theology
crisp-leaved
crisped-leaved
crisping iron
crisping pin
criss-cross
crissal thrasher
crisscross inheritance
crisscross-row
critical altitude
critical angle
critical angle of attack
critical apparatus
critical bibliography
critical constant
critical constants
critical density
critical discernment
critical edition
critical idealism
critical journal
critical juncture
critical mass
critical moment
critical niceness
critical notice
critical path analysis
critical period
critical philosophy
critical point
critical pressure
critical ratio
critical realism
critical region
critical review
critical state
critical success
critical tem
critical temperature
critical volume
critically ill
criticize severely
critico-
critico-analytically
critico-historical
critico-poetical
critico-theological
cro-magnon
croaking sac
crochet file
crochet hook
crochet needle
crochet work
crockery cement
crocodile bird
crocodile shears
crocodile squeezer
crocodile tears
crocus antimonii
crocus bag
crocus cloth
crocus martis
crocus metallorum
crocus sack
croissant demi-sel
croix de guerre
croker sack
crook an elbow
crook rafter
crook the elbow
crook-backed
crooked dice
crooked politician
crooked-backed
crooked-billed
crooked-branched
crooked-clawed
crooked-eyed
crooked-foot
crooked-legged
crooked-limbed
crooked-lined
crooked-lipped
crooked-nosed
crooked-pated
crooked-shouldered
crooked-stemmed
crooked-toothed
crooked-winged
crooked-wood
crookes tube
croon song
crop drier
crop duster
crop grass
crop herbs
crop hide
crop index
crop of hair
crop out
crop pasture
crop rotation
cross estoile
cross facet
cross fault
cross field
cross file
cross fire
cross fitche
cross fleury
cross flute
cross flux
cross forked
cross formee
cross fourchee
cross fox
cross gammadion
cross grain
cross grignolee
cross guard
cross hair
cross hairs
cross heading
cross hilt
cross index
cross keelson
cross keys
cross kick
cross liability
cross license
cross lock
cross lode
cross mint
cross modulation
cross moline
cross multiplication
cross multiply
cross of Calvary
cross of Cleves
cross of Lorraine
cross of St Lazarus
cross of lorraine
cross off
cross order
cross out
cross over
cross patee
cross peen
cross peen hammer
cross pommee
cross-armed
cross-banded
cross-banding
cross-bar
cross-beak
cross-beam
cross-bearer
cross-bearing
cross-bearings
cross-beat escapement
cross-bedded
cross-bedding
cross-bench
cross-bencched
cross-bencchedness
cross-bencher
cross-bias
cross-biased
cross-biassed
cross-bill
cross-bind
cross-bombard
cross-bond
cross-bones
cross-bow
cross-bred
cross-breed
cross-bridge
cross-brush
cross-bun
cross-buttock
cross-buttocker
cross-carve
cross-channel
cross-check
cross-church
cross-claim
cross-cloth
cross-compound
cross-connect
cross-country
cross-country flying
cross-country mill
cross-country race
cross-course
cross-cousin
cross-cousin marriage
cross-crosslet
cross-crosslets
cross-curve
cross-cut
cross-datable
cross-date
cross-dating
cross-days
cross-disciplinary
cross-disciplinary knowledge
cross-division
cross-drain
cross-dye
cross-dyeing
cross-elled

cross-examination
cross-examine
cross-examined
cross-examiner
cross-examining
cross-eye
cross-eyed
cross-eyedness
cross-eyes
cross-face
cross-fade
cross-faded
cross-fading
cross-feed
cross-ferred
cross-ferring
cross-fertile
cross-fertilizable
cross-fertilization
cross-fertilize
cross-fertilized
cross-fertilizing
cross-fiber
cross-file
cross-filed
cross-filing
cross-finger
cross-fingered
cross-fire
cross-fire treatment
cross-firing
cross-fish
cross-fissured
cross-fixed
cross-locking
cross-lot bracing
cross-lot strut
cross-lots
cross-magnetizing field
cross-marked
cross-mate
cross-mated
cross-mating
cross-multiplication
cross-out
cross-out test
cross-over
cross-patch
cross-pawl
cross-peal
cross-piece
cross-piled
cross-plough
cross-plow
cross-ply
cross-point
cross-pollen
cross-pollenize
cross-pollinate
cross-pollinated
cross-pollinating
cross-pollination
cross-pollinize
cross-post
cross-purpose
cross-purposes
cross-question
cross-questionable
cross-questioner
cross-questioning
cross-ratio
cross-ratio group
cross-reaction
cross-reading
cross-refer
cross-reference
cross-remainder
cross-road
cross-row
cross-ruff
cross-sail
cross-section
crossbar shot
crossbar switching
crossbolt lock
crosscut chisel
crosscut file
crosscut method
crosscut saw
crosscut-saw file
crosse check
crossed fingers
crossed in love
crossed-h
crossed-out
crossing file
crossing over
crossing over and under
crossing the bar
crossing-out
crossing-over
crossjack brace
crossjack lift
crossjack yard
crossover network
crossword puzzle
crotch chain
crotch tongue
crotch veneer
croton bug
croton oil
croton-bug
croton-chloral hydrate
crotonic acid
crouch before
crouch ware
crouch-ware
croup kettle
croupous pneumonia
croupy down
crow blackbird
crow call
crow corn
crow duck
crow fig
crow flight
crow garlic
crow like a cock
crow like a rooster
crow ling
crow needle
crow onion
crow over
crow pea
crow pheasant
crow poison
crow sheaf
crow shrike
crow step
crow tit
crow to pick
crow to pluck
crow to pull
crow's foot
crow's nest
crow's nest model
crow's-feet
crow's-foot
crow's-nest
crow's-nest model
crow-bar
crow-bill
crow-flower
crow-garlic
crow-leek
crow-pheasant
crow-quill
crow-silk
crow-soap
crow-step
crow-stone
crow-toe
crow-tread
crow-victuals
crowberry family
crowd grass
crowd in
crowd of sail
crowd on sail
crowd out
crowd puller
crowd sail
crowd your luck
crowd-pleasing argument
crowing engine
crowfoot family
crowfoot grama
crowfoot grass
crowfoot violet
crown afoes
crown and anchor
crown animalcule
crown antler
crown bar
crown block
crown brace
crown cam
crown canker
crown canopy
crown cap
crown class
crown colony
crown cork
crown court
crown cutter
crown daisy
crown debt
crown density
crown escapement
crown filler
crown fire
crown gall
crown gate
crown gear
crown glass
crown gold
crown graft
crown grafting
crown green
crown gum
crown head
crown imperial
crown jewels
crown knot
crown land
crown law
crown lawyer
crown leather
crown lens
crown living
crown molding
crown monkey
crown octavo
crown of thorns
crown office
crown palm
crown paper
crown piece
crown pigeon
crown plate
crown post
crown prince
crown princess
crown prosecutor
crown pulley
crown quarto
crown roast
crown rot
crown rust
crown saw
crown scab
crown sheet
crown shell
crown side
crown sparrow
crown system
crown tax
crown tile
crown vallary
crown vent
crown vetch
crown wart
crown wheel
crown with
crown with laurel
crown with success
crown-capping machine
crown-glass
crown-land
crown-of-jewels
crown-of-thorns
crown-paper
crown-piece
crown-post
crown-rump length
crown-scab
crown-shaped
crown-wheel
crown-wheel escapement
crown-work
crowned head
crowned with laurel
crowned with success
crowning achievement
crowning of the edifice
crowning touch
crownwort family
cruces ansatae
crucial moment
crucial period
crucial point
crucial test
cruciat-
crucible furnace
crucible steel
crucifixion thorn
crude oil
crude petroleum
crude rubber
crude stuff
crudeness of intellect
crudity of intellect
cruel and unusual punishment
cruel disappointment
cruel-hearted
cruet stand
cruise car
cruise missile
cruise ship
cruiser stern
cruiser weight
cruising missile
cruising radius
cruising speed
crumb brush
crumb of comfort
crumble into dust
crumble to dust
crupper bone
crusade for
crush bar
crush barrier
crush breccia
crush conglomerate
crush hat
crush one
crush plane
crush under an iron heel
crush your hope
crush zone
crusher sand
crushing burden
crushing defeat
crushing rejoinder
crushing rolls
crusily-fitchy
crust fold
crust fracture
crust roan
crust-hunt
crust-hunter
crust-hunting
crutch paralysis
crutch stake
crutch-cross
crutch-stick
crux ansata
crux capitata
crux commisa
crux decussata
crux gammata
crux immissa
crux ordinaria
cry aloud
cry at the top of your voice
cry back
cry back to
cry craven
cry down
cry for
cry for joy
cry for quarter
cry for the moon
cry havoc
cry of wolf
cry off
cry on
cry out
cry out against
cry out for
cry out on
cry out upon
cry over spilled
cry over spilled milk
cry pax
cry quits
cry shame upon
cry sour grapes
cry stinking fish
cry to
cry up
cry upon
cry wolf
cry your eyes
cry your eyes out
cry yourself blind
cry-
crying evil
crying shame
cryo-
cryo-aerotherapy
cryo-pump
cryolite glass
crypt-
cryptic mimicry
crypto-
cryptogenic epilepsy
cryptogenic infection
crystal ball
crystal carbonate
crystal class
crystal counter
crystal detector
crystal flower
crystal form
crystal gazer
crystal gazing
crystal glass
crystal gray
crystal habit
crystal lattice
crystal malt
crystal microphone
crystal pickup
crystal rectifier
crystal sand
crystal set
crystal system
crystal tea
crystal vinegar
crystal violet
crystal vision
crystal water
crystal-clear
crystal-clearness
crystal-dropping
crystal-flowing
crystal-gazer
crystal-girded
crystal-lattice constant
crystal-leaved
crystal-palace blue
crystal-palace green
crystal-producing
crystal-smooth
crystal-streaming
crystal-winged
crystalline lens
crystallo-
crystallographic axis
cteno-
cub hunting
cub reporter
cub scout
cub shark
cub-drawn
cub-hunting
cuban heel
cubbridge head
cube ore
cube root
cube spar
cube steak
cube sugar
cube-shaped
cubeb camphor
cubeb oil
cubed steak
cubi-
cubic foot
cubic measure
cubic meter
cubic unit
cubic yard
cubical atom
cubist poetry
cubit arm
cubial furrow
cubito-
cubo-
cubo-octahedral
cubo-octahedron
cuboidal epithelium
cuck-stool
cucking stool
cucumber scab
cucumber tree
cucurbit mosaic
cucurbit wilt
cud-chewing
cuddle up
cuddy heel
cudgel play
cudgel your brains
cudweed mugwort
cue ball
cue bid
cue owl
cue rest
cue sheet
cue word
cue-bid
cue-bidden
cue-bidding
cue-owl
cuff button
cuff ironer
cuff link
cui bono
cui-ui
cuir-bouilli
cul de lampe
cul-de-four
cul-de-lampe
cul-de-sac
culilawan bark
culinary art
culinary artist
culinary concoction
culinary masterpiece
culinary preparation
culinary science
cull board
cull out
cullin stone
culm dump
culm measures
culpable negligence
culpably negligent
culs de lampe
cult-title
cultivate the friendship of
cultivate the soil
cultivated land
cultivated taste
cultivation of the mind
cultivator shield
cultural anthropologist
cultural anthropology
cultural change
cultural community
cultural drift
cultural lag
cultural-nomadic
culture area
culture center
culture complex
culture conflict
culture contact
culture drift
culture epoch
culture factor
culture flask
culture fluid
culture hero
culture lag
culture medium
culture mixing
culture myth
culture organism
culture pattern
culture pearl
culture phenomenon
culture plate
culture sequence
culture shock
culture stage
culture system
culture trait
culture vulture
culture word
cultured pearl
cultus cod
cultus image
cultus-cod
culver hole
cum coupon
cum dividend
cum grano salis
cum laude
cum multis aliis
cum warrants
cumara nut
cumin oil
cummin oil
cumu-cirro-stratus
cumul-
cumular-spherulite
cumulative distribution function
cumulative dividend
cumulative evidence
cumulative preferred stock
cumulative scoring
cumulative system
cumulative voting
cumulato-
cumulo-
cumulo-cirro-stratus
cumulo-cirrus
cumulo-nimbus
cumulo-stratus
cumulo-volcano
cumulonimbus calvus
cumulonimbus capillatus
cumulus cloud
cumulus congestus
cumulus fractus
cumulus humilis
cumulus mediocris
cumulus oophorus
cuneate lobe
cuneo-
cunning as a fox
cunning as a serpent
cunning person
cup and ball
cup and cover
cup barometer
cup bell
cup coral
cup custard
cup drill
cup escutcheon
cup fern
cup fungus
cup grease
cup hole
cup hook
cup joint
cupola-roofed
cupping glass
cuprammonium rayon
cuprea bark
cupro-
cupric hydroxide
cupric sulfate
cupro-
cuproso-
cuprous cyanide
curate's egg
curative measures
curb ball
curb bit
curb box
curb broker
curb chain
curb exchange
curb key
curb market
curb pin
curb roof
curb sender
curb service
curb string
curb yourself
curb-plate
curb-roof
curb-sending
curb-stone
curbing trowel
curcas oil
curcuma paper
curcuma starch
curd cheese
curd soap
curdle the
curdle the blood
cure of souls
cure yourself of
cure-all
curie point
curious as a cat
curious mind
curious person
curl cloud
curl up
curl upwards
curl your lip
curl your lip at
curl-flowered
curled mallow
curled-leaved
curlew bug
curlew jack
curlew sandpiper
curle-wurlie
curling die
curling dies
curling iron
curling irons
curling machine
curling paper
curling pins
curling press
curling punch
curling stone
curling tongs
curly clematis
curly grass
curly palm
curly top
curly-coated
curly-coated retriever
curly-haired
curly-headed
curly-locked
curly-pate
curly-pated
curly-polled
curly-toed
currant aphid
currant borer
currant bush
currant clearwing
currant fruit fly
currant leaf spot
currant moth
currant red
currant rust
currant sawfly
currant spanworm
currant stem girdler
currant tomato
currant tree
currant wine
currant worm
currant-leaf
currency bond
currency doctrine
currency metals
currency note
currency principle
current account
current assets
current breaker
current cost
current density
current electricity
current expenses
current gain
current gauge
current income bond
current indicator
current intensity
current liabilities
current limiter
current mark
current meter
current mill
current of air
current of events
current of fashion
current of ideas
current of thought
current of time
current price
current pulse
current quotation
current ratio
current regulator
current relay
current ripple
current saying
current tap
current transformer
current wheel
current yield
current-control circuit
current-limiting reactor
corrente calamo
curricula vitae
curriculum vitae
curry favor
curry powder
curry puff
curry sauce
curry-comb
curry-favel
curry-leaf tree
currycomb file
curse and swear
curse up hill and down dale
curse with bell
curse word
curse your folly
curse, the
cursing stone
cursing well
cursive epilepsy
cursive hand
cursory inspection
curt-hose
curtail expenses
curtail step
curtail-step
curtain angle
curtain aurora
curtain board
curtain call
curtain dam
curtain dryer
curtain drying
curtain fire
curtain folder
curtain frame
curtain framer
curtain hook
curtain knitter
curtain lecture
curtain lifter
curtain light
curtain line
curtain music
curtain net
curtain pin
curtain pole
curtain raiser
curtain ring
curtain rod
curtain roller
curtain shutter
curtain speech
curtain stretcher
curtain tune
curtain wall
curtain-raiser
curtains of fog and iron
curtal ax
curtal axe
curtal-ax
curtesy initiate
curtle ax
curule chair
curvature invariant
curvature of field
curvature tensor
curve ball
curve fitting
curve of buoyancy
curve of displacement
curve of flotation
curve of loads
curve of resistance
curve of weights
curve-ball
curve-billed
curve-drawing meter
curve-fruited
curve-veined
curved-fruited
curved-horned
curved-veined
curvi-
curvilinear coordinate system
cusco bark
cusco china
cusco-bark
cuscus oil
cush-cush
cushew-bird
cushing's disease
cushion aloe
cushion block
cushion capital
cushion carom
cushion cut
cushion dance
cushion felt
cushion filler
cushion fillings
cushion head
cushion iris
cushion maker
cushion pink
cushion plant
cushion rafter
cushion scale
cushion shot
cushion sole
cushion spurge
cushion star
cushion stitch
cushion tire
cushion-footed
cushion-shaped
cushion-tired
cusk eel
cusk-eel
cusk-eels
cusp locus
cusp-shaped
cusparia bark
cuspidate tooth
cuss like a sailor
cuss out
cuss word
cussing-out
custard apple
custard cup
custard glass
custard pie
custard powder
custard-cups
custodes morum
custom builder
custom hatching
custom house
custom mill
custom tailor
custom work
custom worker
custom-built
custom-cut
custom-house
custom-made
custom-tailored
customer agent
customer ownership
customer's broker
customer's man
customhouse broker
customs bond
customs broker
customs duty
customs house
customs union
customs-exempt
customs-house
custos morum
custos rotulorum
cut a caper
cut a corner
cut a crab
cut a dash
cut a dido
cut a feather
cut a figure
cut a figure in society
cut a lobster
cut a melon
cut a rug
cut a swath
cut across
cut adrift
cut along
cut and dried
cut and run
cut and thrust
cut and try
cut apart
cut at
cut away
cut back
cut both ways
cut capers
cut corners
cut crosswise
cut dead
cut diagonally
cut direct
cut down
cut down expenses
cut down on
cut down to size
cut drop
cut fine
cut glass
cut hunter
cut ice
cut in
cut in two
cut into
cut it
cut it fine
cut it out
cut loose
cut lots
cut nail
cut no ice
cut of your jib
cut off
cut off short
cut off with a shilling
cut off without a cent
cut off your spurs
cut open
cut out
cut out for
cut out of your will
cut plug
cut price
cut prices
cut rate
cut short
cut some ice
cut stone
cut string
cut the Gordian knot
cut the cards
cut the deck
cut the first turf
cut the ground from under
cut the ground from under one
cut the hair
cut the knot
cut the matter short
cut the melon
cut the mustard
cut the pie
cut the throat
cut through
cut time
cut to
cut to pieces
cut to ribbons
cut to the heart
cut to the quick
cut transversely
cut under
cut up
cut up bad
cut up nasty
cut up root and branch
cut up rough
cut velvet
cut work out for
cut you short
cut your eyeteeth
cut your eyeteeth on
cut your losses
cut your own throat
cut your teeth
cut your teeth on
cut your throat
cut your wisdom teeth
cut-and-cover
cut-and-dried
cut-and-dry
cut-and-try
cut-away
cut-back
cut-card work
cut-down
cut-finger
cut-flight conveyer
cut-glass
cut-grass
cut-in
cut-leaf
cut-leaved
cut-off
cut-out
cut-paper
cut-price
cut-rate
cut-through
cut-toothed
cut-under
cut-up technique
cut-work
cutaneous quittor
cutaneous sense
cutaway coat
cute as a bug's ear
cute chick
cute trick
cutes verae
cuticula dentis
cutie pie
cutis anserina
cutis vera
cutlass fish
cutleaf blackberry
cutlery buffer
cutlips minnow
cutoff drainage
cutoff point
cutoff saw
cutoff valve
cutout switch
cutter arbor
cutter bar
cutter block
cutter brig
cutter gig
cutter rig
cutter sloop
cutter yacht
cutter-built
cutter-down
cutter-gig
cutter-off
cutter-out
cutter-rigged
cutter-up
cutthroat competition
cutthroat contract
cutthroat grass
cutthroat razor
cutthroat trout
cutting almond
cutting angle
cutting blowpipe
cutting board
cutting compound
cutting die
cutting drift
cutting edge
cutting fluid
cutting grass
cutting horse
cutting in two
cutting lubricant
cutting machine
cutting of supply lines
cutting oil
cutting out
cutting pliers
cutting press
cutting punch
cutting remark
cutting rule
cutting sand
cutting shoe
cutting stage
cutting the pie
cutting torch
cutting words
cutting your losses
cutting-off tool
cuttle-bone
cuttle-fish
cutty sark
cutty stool
cutty-stool
cutwater bow
cutwork lace
ey pres
cy-
cyan blue
cyan-
cyan-blue
cyanamide process
cyani flower
cyanic acid
cyanide gas
cyanide mill
cyanide process
cyanine blue
cyano group
cyano radical
cyano-
cyanogen bromide
cyanogen chloride
cyanuric acid
cybernated factory
cybernetic control
cyto-
cytochrome reductase
cytochrome system
cytomegalic inclusion disease
d day
d layer
d region
d'Albert
d'Alembert
d'Alembert's test
d'Arblay
d'Holbach
d'Indy
d-
d-c
d-glucose
dB
dBV
dBW
da
da
dBm
dBm/m
dBrn
da Vinci
da capo
dab hand
daber locks
dactyl-
dactylic hexameter
dactylio-
dactylo-
dad-blamed
dad-blasted
dad-burned
daddy longlegs
daddy-long-legs
daddy-longlegs
daddynut tree
dado head
dado in
dado plane
dado rail
daer-stock
daffodil garlic
daffodil lily
daffodil yellow
daft days
dag-lock
dag-tailed
dagger board
dagger cocklebur
dagger fern
dagger knee
dagger money
dagger moth
dagger plank
dagger plant
dagger wood
dagger-shaped
daggle-tail
daghesh forte
daghesh lene
dahl sauce
dahlia carmine
dahlia purple
dahlia sugar
dahlia sunflower
dahlia wartlet
dahoon holly
dai-sho
dai-sho-no-soroimono
dail eireann
daily and hourly
daily bread
daily communicant
daily double
daily dozen
daily grind
daily newspaper
daily round
daily routine
daily-breader
dainty-eared
dainty-fingered
dainty-limbed
dainty-mouthed
dainty-tongued
dainty-toothed
dairy barn
dairy breed
dairy butter
dairy cattle
dairy cheese
dairy cooler
dairy country
dairy cow
dairy cows
dairy farm
dairy farmer
dairy farming
dairy house
dairy husbandry
dairy lunch
dairy milk
dairy product
dairy products
dairy room
dairy salt
dairy school
dairy society
dairy truck
dairy wagon
dairy-cooling
dairy-farming
dairy-fed
dairy-made
daisy bush
daisy chain
daisy cutter
daisy fleabane
daisy ham
daisy tree
daisy-blossomed
daisy-clipping
daisy-cutter
daisy-cutting
daisy-dappled
daisy-dimpled
daisy-painted
daisy-spangled
dak boat
dak bungalow
daker hen
daker-hen
dal segno
dalai lama
dale end
dale head
dale land
dale lander
dale-backed
dall sheep
dallis grass
dally away
dam up
dam-brod
damage feasant
damage your good name
damage-feasant
damascus steel
damask carpet
damask rose
damask steel
damask stitch
dame school
dame's rocket
dame's violet
dame's-violet
dame-school
dammar pine
damn it
damn with faint praise
damnant quod non intelligunt
dammed if I know
dammed little difference
dammed spirits
dammed, the
damning evidence
damning with faint praise
damp box
damp course
damp down
damp off
damp sap
damp the spirits
damp-proof course
damp-stained
damp-worn
dampen the spirits
damper action
damper block
damper crank
damper head
damper pedal
damper rail
damper spoon
damper stop
damper valve
damper winding
damping constant
damping factor
damping machine
damping off
damping-off
damsel fly
damsel-errant
damson cheese
damson pie
damson plum
damson wine
dan buoy
dance attendance
dance attendance on
dance attendance upon
dance band
dance critic
dance drama
dance favor
dance floor
dance fly
dance for joy
dance form
dance hall
dance house
dance leader
dance music
dance notation
dance of death
dance on a hot griddle
dance on air
dance on the razor's edge
dance palace
dance pantomime
dance program
dance rhythm
dance society
dance song
dance step
dance steps
dance the war dance
dance to another tune
dance tune
dance upon nothing
dance-loving
dancing assembly
dancing dervish
dancing disease
dancing floor
dancing girl
dancing hall
dancing lesson
dancing light
dancing mania
dancing master
dancing match
dancing mistress
dancing partner
dancing party
dancing pavilion
dancing room
dancing school
dancing step
dancing winder
dancing-girl
dancing-girls
dandelion digger
dandelion greens
dandelion puller
dandelion wine
dandelion-leaved
dandie dinnmont
dandy brush
dandy cart
dandy fever
dandy roll
dandy roller
dandy-brush
dandy-cock
dandy-hen
dandy-horse
dandy-line
dandy-roller
dane-law
danes'-blood
danger angle
danger ball
danger bearing
danger flag
danger instinct
danger line
danger money
danger point
danger sign
danger signal
danger to health
danger whistle
danger zone
danger-fearing
danger-fraught
danger-free
danger-loving
danger-teaching
dangerous drug
dangerous ground
dangle before one
dangle before the eyes
dangling modifier
dangling participle
danish pastry
danke schon
danse du ventre
danse macabre
danses du ventre
danseur noble
danseurs nobles
daoine sithe
dap joint
dap-dap
daphne pink
daphne red
dapple-bay
dapple-gray
dapple-grey
dappled-gray
darby and joan
dare not
dare to
dare-base
dare-devil
daring imagination
dariole mould
dark Cornish
dark adaptation
dark age
dark ages
dark and gloomy
dark as a wolf's mouth
dark as night
dark as pitch
dark beer
dark bread
dark chocolate
dark cloud
dark clouds
dark comedy
dark corner
dark depths
dark glasses
dark horse
dark lantern
dark lightning
dark meat
dark mineral
dark nebula
dark of night
dark of the moon
dark reaction
dark secret
dark segment
dark shade
dark skinned
dark star
dark-adapted
dark-bearded
dark-blue
dark-bosomed
dark-boughed
dark-breasted
dark-browed
dark-closed
dark-colored
dark-complexioned
dark-embrowned
dark-eyed
dark-eyed night
dark-featured
dark-field
dark-field illumination
dark-field microscope
dark-fired
dark-flowing
dark-fringed
dark-glancing
dark-gray
dark-green
dark-grown
dark-haired
dark-hued
dark-hulled
dark-lantern
dark-leaved
dark-line spectrum
dark-minded
dark-orange
dark-prioned
dark-red
dark-rolling
dark-shining
dark-sighted
dark-skinned
dark-splendid
dark-stemmed
dark-suited
dark-trace tube
dark-veiled
dark-veined
dark-visaged
dark-working
darken over
darken your door
darkened mind
darkling beetle
darkness visible
darkness which may be felt
darkroom timer
darktrace tube
darn ar durn
darning ball
darning cotton
darning egg
darning gourd
darning needle
darning silk
darning stitch
darning work
darning worsted
darroo tree
darrein presentment
darrein resort
dart ahead
dart grass
dart gun
dart snake
dart thrower
dart to and fro
darting pain
dartwaza band
das Ewig-Weibliche
dash ahead
dash at
dash down
dash for
- dash into
- dash lamp
- dash light
- dash of the pen
- dash off
- dash on
- dash the cup from your lips
- dash to your hopes
- dash your brains out
- dash your hope
- dash-board
- dashed hope
- dashed hopes
- dasher block
- data analyzer
- data bank
- data capture
- data processing
- data processor
- data reduction
- data retrieval
- data set
- data storage
- data system
- data transmission
- data-gathering
- data-handling system
- data-input system
- data-interpreting system
- data-reduction system
- date at
- date bar
- date brandy
- date coffee
- date fever
- date fig
- date from
- date grove
- date line
- date mussel
- date of record
- date palm
- date plum
- date shell
- date slip
- date stamp
- date sugar
- date tree
date wine
date-bearing
date-stamp
date-stamping
dating nail
dative bond
datum line
datum plane
datum point
daughter element
daughter of Eve
daughter of joy
daughter of the dawn
daughter-in-law
daughters-in-law
davenport table
davy jones
davy jones's locker
davy lamp
dawn chorus
dawn dew
dawn goddess
dawn on
dawn patrol
dawn redwood
dawn upon one
dawn-illumined
dawn-tinted
day after day
day and night
day bed
day bell
day blindness
day boy
day breeze
day by day
day camp
day clock
day clothes
day coach
day degree
day drift
day fireman
day fishing
day gang
day gate
day glow
day god
day task
day trip
day vision
day waiter
day watchman
day water
day wind
day's work
day's-work
day-and-night
day-appearing
day-bed
day-blindness
day-bright
day-by-day
day-care center
day-clean
day-clear
day-dawn
day-day
day-detesting
day-devouring
day-dispensing
day-distracting
day-dream
day-eyed
day-fever
day-flower
day-fly
day-flying
day-hating
day-hired
day-lasting
day-lily
day-lived
day-loving
day-mare
day-net
day-neutral
day-peep
day-rawe
day-rule
day-shining
day-sight
day-spring
day-star
day-tale
day-time
day-to-day
day-to-day loan
day-to-day money
day-tripper
day-wearied
day-woman
day-writ
daylight blue
daylight factor
daylight glass
daylight lamp
daylight projection
daylight robbery
daylight saving
daylight saving time
daylight vision
daylight-saving time
days beyond recall
days gone by
days of grace
days of old
days of yore
daytime serial
dazzle painting
dazzle system
dazzling light
de Beauvoir
de Broglie
de Broglie equation
de Broglie wave
de Broglie waves
de Gaulle
de Gaullism
de Kooning
de Lesseps
de Moivre
de Moivre's theorem
de Sica
de Valera
de Villiers
de Wint
de bene esse
de bonis non administratis
de bonne volonté
de die in diem
de facto
de fide
de fond en comble
de gaullism
de gustibus non est disputandum
de haut en bas
de jure
de longue haleine
de los Angeles
de luxe
de mal en pis
de mortuis nil nisi bonum
de novo
de plano
de profundis
de proprio motu
de rerum natura
de rien
de rigueur
de stijl
de trop
de-
de- prestige
de-Stalinization
de-Stalinize
de-Stalinized
de-Stalinizing
de-aerate
de-aereate
de-afforest
de-articulate
de-articulation
de-christianize
de-educate
de-electrify
de-electrization
de-electrize
de-emanate
de-emanation
de-emphases
de-emphasis
de-emphasize
de-emphasized
de-emphasizing
de-emulsibility
de-emulsify
de-emulsivity
de-energize
de-escalate
de-escalation
de- ethicization
de-ethicize
de-excite
de-excited
de-excitng
de-ice
de-icer
de-insularize
de-ossify
de-pauperize
de-russianize
de-saxonize
de-semiticize
dea-nettle
deacon seat
dead above the ears
dead against
dead ahead
dead and buried
dead and done for
dead and gone
dead as a doornail
dead as a herring
dead as mutton
dead asleep
dead band
dead beat
dead between the ears
dead blackout
dead body
dead calm
dead center
dead centre
dead certainty
dead circuit
dead colour
dead duck
dead end
dead firing
dead flat
dead force
dead from the neck up
dead giveaway
dead hand
dead hand of the past
dead heat
dead in the Lord
dead language
dead leaf
dead letter
dead level
dead lift
dead load
dead lock
dead loss
dead low tide
dead low water
dead mail
dead man
dead man's control
dead man's fingers
dead man's hand
dead man's handle
dead march
dead matter
dead men
dead metal
dead muzzler
dead of night
dead on your feet
dead palsy
dead pan
dead past
dead pay
dead person
dead persons
dead pledge
dead point
dead reckoning
dead right
dead ringer
dead run
dead sea
dead season
dead set
dead set at
dead set on
dead sheave
dead shot
dead slow
dead soldier
dead space
dead spindle
dead spot
dead stand
dead stick
dead stock
dead stop
dead storage
dead straight
dead sure
dead time
dead to
dead to rights
dead to shame
dead to the world
dead wall
dead water
dead weight
dead well
dead woman
dead wood
dead zone
dead-afraid
dead-air
dead-air space
dead-alive
dead-alivism
dead-and-alive
dead-anneal
dead-arm
dead-ball line
dead-blanched
dead-born
dead-bright
dead-burn
dead-center
dead-centre
dead-cold
dead-color
dead-colored
dead-dip
dead-doing
dead-drifting
dead-drunk
dead-drunkenness
dead-end
dead-end street
dead-eye
dead-face
dead-front
dead-frozen
dead-grown
dead-hand
dead-hearted
dead-heat
dead-heater
dead-heavy
dead-kill
dead-leaf
dead-letter
dead-light
dead-line
dead-live
dead-man control
dead-man's float
dead-melt
dead-nettle
dead-point
dead-rise
dead-rise line
dead-roast
dead-seeming
dead-set
dead-sick
dead-smooth
dead-soft
dead-stick
dead-stick landing
dead-stick loop
dead-still
dead-stroke
dead-stroke hammer
dead-struck
dead-sure thing
dead-tired
dead-tongue
dead-weight
dead-weight safety valve
dead-work
deadbeat escapement
deaden the pain
deadly nightshade
deadly pale
deadly pallor
deadly sin
deadly sin of envy
deadly sins
deadly weapons
deadweight capacity
deadweight tonnage
deadwood fence
deaf and dumb
deaf as a door
deaf as a doorknob
deaf as a doornail
deaf as a post
deaf as a stone
deaf as an adder
deaf ears
deaf to
deaf to reason
deaf-and-dumb
deaf-and-dumb alphabet
deaf-and-dumb person
deaf-dumb
deaf-dumbness
deaf-eared
deaf-minded
deaf-mute
deaf-muteness
deaf-mutism
deal a blow
deal a blow at
deal a check to
deal a crushing defeat
deal a deathblow
deal a deathblow to
deal a knockout blow to
deal a smashing defeat
deal board
deal by
deal carrier
deal destruction
deal hard measure to
deal hardly with
deal harshly with
deal illicitly
deal in
deal in abstractions
deal in commercial paper
deal in futures
deal in generalities
deal in money
deal in the marvelous
deal merchant
deal off
deal off the bottom of the deck
deal out
deal porter
deal runner
deal someone in
deal table
deal with
deal worker
deal yard
deal-board
dealer acceptance
dealer allowance
dealer help
dealing box
dealing death
dealing in commercial paper
dealings of providence
dean of guild
dean of men
dean of the faculty
dean of women
dean's list
dear as the apple of your eye
dear at any price
dear joy
dear me
dear one
dear to your heart
dear-bought
dear-cut
deariest wish
dearly beloved
dearly love
dearly love to
dearth of ideas
death adder
death agonies
death agony
death alder
death angel
death angle
death bell
death benefit
death bill
death blast
death bolt
death bone
death by your own hand
death camas
death camass
death candle
death cap
death ray
dearth roll
dearth rope
dearth row
dearth ruckle
dearth seat
dearth sentence
dearth shriek
dearth sleep
dearth song
dearth stab
dearth stroke
dearth struggle
dearth sweat
dearth symbol
dearth tax
dearth thirst
dearth throe
dearth throes
dearth tick
dearth toll
dearth trance
dearth vacancy
dearth warrant
dearth weight
dearth wish
dearth wraith
dearth's bright angel
dearth's-face
dearth's-head
dearth's-head moth
dearth's-herb
dearth-bearing
dearth-bed
dearth-begirt
dearth-bell
dearth-bird
dearth-black
dearth-blow
dearth-boding
dearth-braving
dearth-bringing
dearth-cold
dearth-come-quickly
dearth-counterfeiting
dearth-darting
dearth-day
dearth-deaf
death-deafened
deadth-dealing
death-deep
deadth-defying
defair
death-devoted
defa
deadth-dewed
defa
deadth-divided
defa
deadth-divining
defa
deadth-doing
defa
deadth-doom
defa
deadth-due
defa
deadth-fire
defa
deadth-laden
defa
deadth-marked
defa
deadth-pale
defa
deadth-polluted
defa
deadth-practiced
defa
deadth-shadowed
defa
deadth-sheeted
defa
deadth-sick
defa
deadth-stiffening
defa
deadth-stricken
defa
deadth-struck
defa
deadth-subduing
defa
deadth-swimming
defa
deadth-threatening
defa
deadth-throe
defa
deadth-warrant
defa
deadth-watch
defa
deadth-weary
defa
deadth-winged
defa
deadth-worm
defa
deadth-worthy
defa
deadth-wound
defa
deadth-wounded
defa
deadthbed deed
defa
deadthbed repentance
defa
deadthlike calm
defa
deadthlike silence
defa
deadthly hue
defa
deadthly pale
defa
deadthly pallor
defa
deadthwatch beetle
defa
debase yourself
defa
debating point
defa
debenture bond
defa
debenture stock
defa
debit ticket
debonis non
debris glacier
debt book
debt limit
debt of honor
debt of honour
debt of nature
debt service
debt slave
debt slavery
debtor and creditor account
debtor's prison
debts recovery court
debutante bob
deca-
decade ring
decanal side
decanedioic acid
decanoic acid
decapod locomotive
decarbonized iron
decay coefficient
decay of memory
decay series
deceased, the
decedent estate
decieve yourself
deceleration parachute
decem-
decception bed
decption table
decceptive cadence
deci-
decide against
decide between
decide upon
decided resemblance
decided upon
deciding vote
deciduous plant
deciduous tooth
decimal candle
decimal classification
decimal currency
decimal fraction
decimal place
decimal point
decimal system
decimo-sexta
decision procedure
decision-making
decisive defeat
decisive moment
deck beam
deck block
deck board
deck bolt
deck boy
deck bridge
deck car
deck cargo
deck chair
deck curb
deck department
deck elevator
deck feather
deck floor
deck gang
deck gun
deck hand
deck hook
deck horse
deck iron
deck key
deck kicker
deck light
deck load
deck log
deck molding
deck nail
deck of cigarettes
deck officer
deck out
deck over
deck passage
deck passenger
deck pipe
deck plate
deck plating
deck pump
deck quoits
deck roof
deck seat
deck sheet
deck steward
deck stool
deck stopper
deck stringer
deck tackle
deck tennis
deck transom
deck turret
deck up
deck watch
deck-piercing
deck-piercing shell
decked out
decking chain
deckle edge
deckle strap
deckle-edged
declaim against
declaration of faith
declaration of policy
declaration of war
declaratory judgment
declare a dividend
declare a moratorium
declare a recess
declare lawful
declare null and void
declare off
declare roundly
declare to God
declare war
declare yourself
declare yourself a party
declare yourself against
declaring yourself in
declination axis
declination circle
declination compass
declination parallel
decline and fall
decline of day
decline of life
decline politely
decline to accept
decline with thanks
declined with thanks
declining market
declining years
decoction process
decoding servomechanism
decomposition potential
decompression chamber
decompression sickness
decorated hero
deroration of honor
derorative composition
derorative lighting
derorative painting
derorative sculpture
derorative style
derorative surgery
derator color
decoy duck
decoy-duck
decrease in size
decrease in temperature
decree absolute
decree dative
decree law
decree nisi
decree of nullity
decree-law
decrescent moon
decret loi
decubitus ulcer
decuman gate
dedendum circle
dedicate oneself to
dedicate to
dedicate yourself to
dedication to duty
deductible clause
deductive power
deductive reasoning
deed of arrangement
deed of indemnity
deed of release
deed of trust
deed over
deed poll
deed without a name
dee trustworthy
dee as China
dee as a well
dee as hell
dee as the ocean
dee as the sea
dee asleep
deep bass
deep black
deep fat
deep floor
deep freeze
deep freezing
deep fryer
deep future
deep in debt
deep into
deep kiss
deep knowledge
deep mourning
deep night
deep sea
deep secret
deep sense
deep sensibility
deep six
deep sleep
deep space
deep structure
deep study
deep therapy
deep thought
deep water
deep, the
deep-affected
deep-affrighted
deep-asleep
deep-bellied
deep-biting
deep-blue
deep-bodied
deep-bosomed
deep-brained
deep-breasted
deep-breathing
deep-brooding
deep-browed
deep-buried
deep-chested
deep-colored
deep-contemplative
deep-crimsoned
deep-cut
deep-damasked
deep-discerning
deep-discount bond
deep-dish
deep-dish pie
deep-domed
deep-down
deep-downness
deep-draw
deep-drawing
deep-drawn
deep-drenched
deep-drew
deep-drinking
deep-drunk
deep-dye
deep-dyed
deep-dyed falsehood
deep-echoing
deep-embattled
deep-engraven
deep-etch plate
deep-eyed
deep-faced
deep-felt
deep-fermenting
deep-fetched
deep-fixed
deep-flewed
deep-freeze
deep-freezed
deep-freezer
deep-freezing
deep-fried
deep-froze
deep-frozen
deep-fry
deep-frying
deep-going
deep-green
deep-groaning
deep-grounded
deep-grown
deep-kiss
deep-laden
deep-laid
deep-laid plot
deep-laid scheme
deep-level mine
deep-lunged
deep-lying
depth-mouthed
depth-musing
depth-naked
depth-persuading
depth-piled
depth-pitched
depth-pointed
depth-pondering
depth-premeditated
depth-questioning
depth-reaching
depth-read
depth-revolving
depth-rooted
depth-rooted belief
depth-rootedness
depth-rooting
depth-sea
depth-sea diver
depth-sea diving
depth-sea lead
depth-sea line
depth-sea man
depth-sea smelt
depth-searching
depth-seated
depth-seatedness
depth-set
depth-settled
depth-sided
depth-sighted
depth-sinking
depth-six
depth-skirted
depth-sore
depth-sounding
depth-space ship
depth-stapled
depth-sunk
depth-sunken
depth-sweet
depth-sworn
depth-tangled
depth-thinking
depth-thoughted
depth-thrilling
depth-throated
deep-toned
dep-transported
dep-trenching
dep-troubled
dep-udderred
dep-vaulted
dep-versed
dep-voiced
dep-waisted
dep-water
dep-worn
dep-wounded
deepest feelings
deepest mind
deepest recesses
deply involved
deply involved in debt
deepwater sailor
deer brush
deer cabbage
deer call
deer cart
deer fence
deer fern
deer fly
deer fly fever
deer foot
deer forest
deer grass
deer hide
deer keeper
deer laurel
deer lick
deer mouse
deer park
deer tick
deer tiger
deer vine
deer's-tongue
deer-coloured
deer-eyed
deer-fly fever
deer-hair
deer-hound
deer-lick
deer-mouse
deer-neck
deer-staiker
deer-stealer
deerhorn cactus
deerwort boneset
defamation of character
defeat expectation
defeat hope
defeat of time
defeat time
defeat utterly
defeated candidate
defect of sight
defect of vision
defective eye
defective eyes
defective number
defective verb
defective vision
defective year
defence mechanism
defend tooth and nail
defender of the bond
defender of the marriage bond
defending line
defense bond
defense counsel
defense in depth
defense mechanism
defense of a thesis
defense plant
defense reaction
defense test
defensive lineman
defensive stock
defensive strategy
defensive warfare
defer to
defer to your duty
deferential regard
deferred annuity
deferred assets
deferred bond
deferred income
deferred payments
deferred sentence
deferred share
deferred stock
deferescing plague
defiance of authority
defiance of time
deficiency account
deficiency anemia
deficiency bill
deficiency disease
deficiency judgment
deficiency statement
deficient number
deficit financing
deficit spending
definite article
definite integral
definite odor
definite-proportions law
definite-time
definitely right
definitive bond
definitive host
definitive plumage
definitive work
deflagrating spoon
deflationary gap
deflationary spiral
deflecting bar
deflecting force
deflecting torque
deflection angle
deflection generator
deflection method
deflection offset
deflection scale
deflection yoke
deflection-modulated display
deformation curve
deformation ellipsoid
deformed bar
defray expenses
deft-fingered
defy authority
defy danger
defy time
degenerate state
degenerate states
degeneration disease
degenerative arthritis
degenerative change
degenerative disease
degenerative joint disease
degradation of energy
degrade yourself
degree day
degree of freedom
degree of frost
degree of variance
degree-cut
degree-day
degree-granting institution
degrees of comparison
dehydrated alcohol
dehydrated foods
dei gratia
dei plenus
deion circuit breaker
diesel engine
deities of fertility
deities of justice
deities of the household
deities of the nether world
deity of nether world
defa vu
dejuner a la fourchette
deka-
del Sarto
del credere
del credere agent
delay line
delay screen
delay-action
delayed action
delayed alpha particle
delayed drop
delayed neutron
delayed reaction
delayed speech
delayed-action
delayed-action bomb
delayed-action fuse
delaying action
deleb palm
delegated authority
delenda est Carthago
delft blue
delft ware
deliberate aggravation
deliberate over
deliberate stages
delicate distinction
delicate health
delicate issue
delicate-handed
delicately weak
delight in
delight the palate
delimited field
delineating in the imagination
delirium alcoholicum
delirium ebriositatis
delirium mussitans
delirium tremens
deliver a lecture
deliver an address
deliver an ultimatum
deliver judgment
deliver over
deliver up your arms
deliver your charge to the jury
deliver yourself
deliver yourself from
delivered price
delivery boy
delivery order
delivery price
delivery room
delivery ticket
delivery truck
delivery van
della Robbia
della crusca
delph blue
delta connection
delta current
delta function
delta iron
delta plain
delta plateau
delta potential
delta ray
delta rhythm
delta winding
delta wing
delta-planform jet
delta-shaped
delude yourself
deluded belief
deluge set
delusion of grandeur
delusion of persecution
delusion of reference
delve for
delve into
demand attention
demand bid
demand bill
demand curve
demand deposit
demand draft
demand for
demand limiter
demand loan
demand meter
demand note
demand payment
demand rate
demand-load limiter
demand-pull inflation
demean yourself
dementia a potu
dementia paralytica
dementia praecox
demerit mark
demesne farm
demi-
demi-batn
demi-cannon
demi-culverin
demi-hunter
demi-incognito
demi-island
demi-islander
demi-jour
demi-lance
demi-landau
demi-mondaine
demi-monde
demi-ostade
demi-paradise
demi-pension
demi-pique
demi-puppet
demi-rep
demi-sang
demi-season
demi-sec
demi-sel
demi-semi
demi-sheath
demi-vill
demilitarized zone
demipirouette volt
demo-
democrat wagon
democratic centralism
democratic-republican
demoiselle crane
demolition bomb
demolition derby
demolition rocket
demon star
demon worship
demon worshiper
demonic energy
demono-
demonstrable existence
demonstrable fact
demonstrate against
demonstrate respect for
demonstrate your ability
demotic character
demy octavo
demy quarto
den chief
den dad
den mother
den of iniquity
den of thieves
den of vice
den-tree
denatured alcohol
dendr-
dendritic drainage pattern
dendro-
dene-hole
dengue fever
denial of due credit
denial of proper credit
denied due credit
denied proper credit
denied to
denim jacket
denizen of the deep
denizens of hell
denizens of the air
denizens of the forest
denizens of the jungle
denizens of the wild
denominate number
denominational school
dense body
dense-flowered
dense-headed
dense-minded
dense-wooded
density altitude
density control
density current
density function
density indicator
density rule
dent corn
dent-
dental bridge
dental corps
dental floss
dental gold
dental hygiene
dental hygienist
dental length
dental lisp
dental orthopaedics
dental plaque
dental plate
dental pulp
dental surgeon
dental surgery
dental technician
dentary-splenial
dentate-ciliate
dentate-crenate
dentate-serrate
dentate-sinuate
dentato-
denti-
dentil band
dentist’s chair
dento-
denuded of
denumerative geometry
deny yourself
deny yourself not at all
deny yourself nothing
deny yourself to
deo volente
deodorant soap
deontological ethics
deoxy-
deoxyribonucleic acid
depart from
depart from the prepared text
depart this life
departed spirit
departed this life
departed, the
department hospital
department of investigation
department of knowledge
department store
departmental store
depend on
depend upon
dependence on
dependent clause
dependent on
dependent variable
depending on
depending on circumstances
dephlogisticated air
dephosphorizing process
depicting in the imagination
deposition allowance
deponent verb
deport yourself
deported population
deposit account
deposit banking
deposit copy
deposit currency
deposit margin
deposit money
deposit of faith
deposit premium company
deposit slip
depot ship
depraved appetite
deprecate yourself
depreciate yourself
depreciation charge
depress the scales
depressed arch
depressed area
depressed class
depressed population
depressed-bed
depressed-bed method
depression of spirit
depression range finder
depression slide
depression spring
depressive reaction
depressor nerve
deposition of freedom
deprive of
deprive of freedom
deprive of life
deprive of office
deprive of sight
deprive you of
derived of
derived of reason
deriving of sight
depth bomb
depth charge
depth gauge
depth indicator
depth indicators
depth interview
depth measure
depth measurement
depth of field
depth of focus
depth of hold
depth of misery
depth of thought
depth of winter
depth perception
depth psychology
depth sounder
depth sounding
depth table
depth-charge
depth-charged
desk dictionary
desk jobber
desk lamp
desk light
desk pad
desk room
desk sweater
desk telephone
desk work
desm-
desmo-
desoxy-
desoxyribonucleic acid
despair of
despaired of
desperate criminal
despite that
despoiled of
despotic monarch
despotic monarchy
dessert fork
dessert knife
dessert plate
dessert spoon
dessert wine
destiny's darling
destitute of
destitute of life
destroyer escort
destroyer leader
destroyer tender
destroyer wheel
destroying angel
destruct line
destruction of life
destructive criticism
destructive distillation
destructive interference
detach for service
detached escapement
detached retina
detached service
detail drawing
detail man
detectable odor
detective novel
detective story
detective work
detective yarn
detent escapement
detention camp
detention centre
detention home
detention hospital
determinant rank
determinate cleavage
determinate growth
determinative clause
determine once for all
determine upon
determined upon
deterrent capacity
deterrent example
detonating fuse
detonating powder
detonating tube
detonation indicator
detract attention
detract from
detritus tank
deuce game
deuce point
deuce set
deuce shot
deuce-ace
deuces wild
deus ex machina
deut-
deuter-
deuterium oxide
deutero-
deutero-malayan
deuterocanonical books
deutero-
deutsche mark
devastating attack
develop into
develop late
developed thought
developing dye
developing tank
developing-out paper
development section
development theory
developmental change
developmental psychology
deviate from
deviate from the path of virtue
deviate from the truth
deVIation card
deVIation factor
deVIation warranty
deVil bolt
deVil carriage
deVil chaser
deVil dance
deVil dancer
deVil dancing
deVil dog
deVil dogs
deVil grass
deVil incarnate
deVil lore
deVil murder
deVil of a
deVil ray
deVil take
deVil to pay, the
deVil worship
deVil worshiper
deVil worshipping
deVil's advocate
deVil's bit
deVil's bones
deVil's books
deVil's claw
deVil's coach-horse
deVil's darning needle
deVil's dung
deVil's dust
deVil's food cake
deVil's grip
deVil's guts
deVil's ivy
deVil's mark
deVil's milk
deVil's own luck
deVil's paintbrush
deVil's tattoo
deVil's-bit
deVil's-bones
deVil's-ivy
deVil's-pincushion
deVil's-tongue
devil's-walking-stick
devil-born
devil-devil
devil-diver
devil-dodger
devil-fish
devil-giant
devil-god
devil-haired
devil-in-the-bush
devil-inspired
devil-like
devil-may-care
devil-may-carelessness
devil-porter
devil-ridden
devil-tender
deviled eggs
devils' chorus
devils-on-horseback
devout of
devout of truth
devolve on
devolve upon
devote the mind to
devote the thoughts to
devote to
devote yourself
devote yourself to
devoted friend
devoted friendship
devoted to
devoted to studies
devotee of Bacchus
devotion to duty
devoured by
devoured by desire
devouring element
dew bit
dew bow
dew cap
dew cell
dew grass
dew plant
dew point
dew pond
dew snail
dew worm
dew-beat
dew-beater
dew-bedabbled
dew-bediamonded
dew-bent
dew-berry
dew-bespangled
dew-besprinkled
dew-boine
dew-bolne
dew-bright
dew-clad
dew-claw
dew-cold
dew-dabbled
dew-drenched
dew-dripped
dew-dropping
dew-drunk
dew-fall
dew-fed
dew-gemmed
dew-laden
dew-lipped
dew-lit
dew-pearled
dew-point
dew-point deficit
dew-point depression
dew-point hygrometer
dew-point spread
dew-point temperature
dew-pond
dew-ret
dew-sprent
dew-sprinkled
dew-worm
dewar flask
dewey decimal classification
dewy morn
dewy-bright
dewy-dark
dewy-eyed
dewy-feathered
dewy-feathered sleep
dewy-fresh
dewy-pinioned
dextr-
dextrinogenic enzyme
dextro camphor
dextro propoxyphene
dextro-
dextro-glucose
dextroamphetamine sulfate
dextronic acid
dh-
dhobi itch
dhobie itch
dhobie tongs
dhu'l-hijja
dhu'l-qadah
di grado in grado
di maiores
di minores
di-
di-adapan
di-allyl
di-decahedral
di-do decahedral
di-hexahedron
di-iodide
di-tri-
dia-
diabase-porphyrite
diabetes insipidus
diabetes mellitus
diabetes sugar
diabetes weed
diabetic diet
diabol-
diacetyl morphine
diachronic linguistics
diacritical mark
diacritical marks
diacritical sign
diadem lemur
diadem spider
diagnostic picture
diagonal bond
diagonal cloth
diagonal engine
diagonal line
diagonal matrix
diagonal-built
diagonal-cut
diagram factor
dial bird
dial enameler
dial feed
dial foot
dial gauge
dial press
dial recorder
dial telegraph
dial telephone
dial tone
dial train
dial work
dial-plate
dialect atlas
dialect dictionary
dialect geographer
dialect geography
dialectical materialism
dialectical materialist
dialectical theology
dialing globe
dialling tone
diallyl sulfide
diallylbarbituric acid
dialogical theology
dialy-
dialysis machine
dialytic method
diameter tape
diametrically opposite
damido-
diamine dye
diamine oxidase
diamond anniversary
diamond bed
diamond beetle
diamond bird
diamond black
diamond borer
diamond boron
diamond bort
diamond breaker
diamond broker
diamond cement
diamond chisel
diamond couching
diamond crossing
diamond stitching
diamond tool
diamond tooth
diamond trade
diamond truer
diamond twist
diamond wedding
diamond weevil
diamond wheel
diamond-back
diamond-backed
diamond-beetle
diamond-boring
diamond-bright
diamond-cut
diamond-cutter
diamond-headed
diamond-leaf laurel
diamond-matched
diamond-paned
diamond-point
diamond-point spoon
diamond-pointed
diamond-producing
diamond-shaped
diamond-skin disease
diamond-snake
diamond-tiled
diamond-tipped
diamondback moth
diamondback rattlesnake
diamondback terrapin
diamondback watersnake
diamyl sulfide
diapason diapente
diapason ditone
diapason normal
diapason normal pitch
diapason pitch
diaper pattern
diaper rash
diaper service
diaphragm current
diaphragm gauge
diaphragm motor valve
diaphragm process
diaphragm pump
diaphragm shutter
dicky bow
dictate peace
dictates of Mrs
dictates of society
dictating machine
dictatorship of the proletariat
dictionary catalog
dictionary catalogue
dictionary editor
dictionary meaning
dictionary of quotations
dictionary-proof
dicty-
dicyclopentadienyl metal
did you ever
didactic poetry
diddle away
diddle-
diddle-daddle
diddle-dee
die a natural death
die a violent death
die at your post
die away
die away from the memory
die by your own hand
die cast
die caster
die casting
die chaser
die chuck
die cutter
die cutting
die down
die engraver
die fighting
die filing
die fitter
die fitting
die for your country
die forger
die forging
die game
die grinder
die hammer
die hard
die hardener
die head
die hob
die holder
die in harness
die in the Lord
die in the attempt
die in the last ditch
die in your boots
die is cast, the
die kicker
die laughing
die like a man
die miller
die mold
die off
die on the vine
die out
die planer
die plate
die polisher
die polishing
die press
die presser
die proof
die reamer
die screw plate
die set
die shaper
die sharpening
die shoe
die spotter
die spotting
die spring
die stamper
die standing up
die steel
die stock
die stripper
die stripping
die tap
die temper
die trying
die turner
die wedge
die with delight
die with pleasure
die with your boots on
die-away
die-back
die-cast
die-casting
die-cut
die-hard
die-hardism
die-square
dielectric constant
dielectric current
dielectric displacement current
dielectric heat
dielectric heater
dielectric heating
dielectric loss
dielectric preheater
dielectric strength
dies funestis
dies irae
dies non
dies non juridicus
diesel cycle
diesel engine
diesel fuel
diesel oil
diesel propulsion
diesel-driven
diesel-electric
diesel-electric propulsion
diesel-engined
diesel-hydraulic
diesel-powered
diesel-propelled
diesinking machine
diet book
diet kitchen
dietary deficiency
dietary law
dietetic treatment
diethene-
diethyl ether
diethyl malonate
diethyl oxide
diethyl sulfide
diethylbarbituric acid
diethylene dioxide
dif-
differ from
differ in opinion
difference chart
difference engine
difference equation
difference gauge
difference limen
difference of form
difference of opinion
difference product
difference quotient
difference ring
difference table
difference threshold
difference tone
different breed of cat
different story
different thing
differential analyzer
differential anesthetic
differential calculus
differential coefficient
differential diagnosis
differential equation
differential gap
differential gear
differential gearing
differential geometry
differential ionization chamber
differential leveling
differential operator
differential pressure gauge
differential psychology
differential purchase
differential quotient
differential rate
differential recorder
differential tackle
differential tone
differential weathering
differential windlass
difficult thing
difficulty score
diffracted wave
diffraction disk
diffraction grating
diffraction spectroscope
diffraction spectrum
diffuse inflammation
diffuse light
diffuse nebula
digit-
digito-
diglycolic acid
diglycollic acid
dihedral angle
dihydric alcohol
diisobutyl phthalate
dik-dik
dika bread
dika butter
dika nut
dike hopper
dike out
dike rock
dike up
dike-grave
dike-louper
dike-reeve
dilate on
dilate upon
dill oil
dill pickle
dill water
dilly bag
dilly-dally
dilute acid
dim eyes
dim light
dim out
dim past
dim recollection
dim view
dim-brooding
dim-browed
dim-colored
dim-discovered
dim-eyed
dim-felt
dim-gleaming
dim-gray
dim-lettered
dim-lighted
dim-lit
dim-litten
dim-out
dim-remembered
dim-seen
dim-sensed
dim-sighted
dim-sightedness
dim-visioned
dim-witted
dim-wittedness
dim-yellow
dime a dozen
dime museum
dime novel
dime store
dime-a-dozen
dime-store
dimension control
dimension lumber
dimension stone
dimethyl arsinic acid
dimethyl sulfate
dimethyl sulfoxide
diminish yourself
diminished dovetail
diminished responsibility
diminished seventh chord
diminished stile
diminishing returns
diminishing rule
diminishing stile
dimissorial letter
dimissory letter
din in the ear
dine not wisely but too well
dine out
dine with Duke Humphrey
diner-out
dinette set
dinette table
ding an sich
ding off
ding-a-ling
ding-dong
dingdong theory
dinge an sich
dinghy anchor
dingle-dangle
dining car
dining chair
dining compartment
dining hall
dining room
dining saloon
dining table
dining utensils
dinitro-
dinitrogen tetroxide
dinkel wheat
dinking die
dinkum oil
dinky-di
dinner audience
dinner bell
dinner call
dinner card
dinner chimes
dinner clothes
dinner club
dinner coat
dinner dance
dinner dress
dinner fork
dinner gong
dinner gown
dinner hour
dinner jacket
dinner knife
dinner napkin
dinner pail
dinner party
dinner plate
dinner ring
dinner room
dinner service
dinner set
dinner table
dinner wagon
dinner-dance
dinner-getting
diocesan conference
diocesan court
diophantine equation
diorite-porphryrite
dip a flag
dip circle
dip down
dip fault
dip into
dip needle
dip out
dip pipe
dip rider
dip rope
dip sector
dip shift
dip slip
dip snuff
dip switch
dip the beak
dip the colors
dip the ensign
dip the pen in gall
dip trap
dip your hands into
dip-dye
dip-grained
dip-needling
diphen-
diphenyl black
diphenyl ether
diphenyl ketone
diphenylene-methane
diphenylhydantoin sodium
diphosphoglycnergic acid
diphtheria bacillus
diphtheria toxoid
diphy-
diphyo-
dipl-
diplo-
diploid number
diploma mill
diploma piece
diplomatic agent
diplomatic body
diplomatic code
diplomatic corps
diplomatic courier
diplomatic immunity
diplomatic mission
diplomatic pouch
diplomatic service
diplomatic staff
diplomatic text
dipodic rhythm
dipole aerial
dipole antenna
dipole moment
dipper clam
dipper dredge
dipper gourd
dipper interrupter
dipper-in
dipping acid
dipping basket
dipping bath
dipping battery
dipping chair
dipping compass
dipping elevator
dipping enamel
dipping frame
dipping furnace
dipping hook
dipping house
dipping ladle
dipping lug
dipping lugsail
dipping needle
dipping oil
dipping paint
dipping pan
dipping paper
dipping process
dipping rack
dipping rod
dipping room
dipping table
dipping tank
dipping the colors
dipping the ensign
dipping tub
dipping tube
dipping works
dipping-needle
dipsey lead
dipsey line
dipsy-doodle
dire necessity
dire wolf
direct access
direct action
direct actionist
direct apprehension
direct attention to
direct black
direct blue
direct broadcast
direct brown
direct communication
direct costs
direct cotton dye
direct current
direct current motor
direct democracy
direct discourse
direct distance dialing
direct dye
direct evidence
direct examination
direct fire
direct grant school
direct infection
direct initiative
direct intuition
direct labor
direct lighting
direct line
direct mail
direct method
direct nomination
direct object
direct order
direct positive
direct primary
direct product
direct proportion
direct question
direct ratio
direct relationship
direct signal
direct speech
direct sum
direct tax
direct the eyes
direct the mind upon
direct tide
direct to
direct to the attention
direct transfusion
direct variation
direct yellow
direct your attention to
direct your course
direct your course for
direct your course to
direct yourself
direct-acting
direct-acting engine
direct-acting press
direct-actionist
direct-connected
direct-coupled
direct-current
direct-current circuit
direct-current converter
direct-current servo
direct-driven
direct-examine
direct-examined
direct-examining
direct-geared
direct-grant school
direct-indirect radiator
direct-mail
direct-mail advertising
direct-mail selling
direct-reading computer
direct-reading spectrometer
direct-reading spectroscope
direct-viewing tube
direct-vision prism
direct-vision spectroscope
direct-writing company
directed verdict
directing circle
directing piece
directing plane
directing point
direction angle
direction constant
direction cosine
direction dial
direction finder
direction finding
direction indicator
direction line
direction number
direction post
direction ratio
direction switch
dirt-rotten
dirt-smirched
dirt-soaked
dirty allan
dirty bomb
dirty crack
dirty deal
dirty dig
dirty hands
dirty joke
dirty language
dirty liar
dirty lie
dirty look
dirty movie
dirty name
dirty old man
dirty politician
dirty politics
dirty pool
dirty sea
dirty shame
dirty sky
dirty story
dirty talk
dirty trick
dirty up
dirty water
dirty weather
dirty wind
dirty word
dirty work
dirty-colored
dirty-faced
dirty-handed
dirty-minded
dirty-shirted
dirty-souled
dis aliter visum
dis-
dis-byronize
dis-element
dis-turk
disability clause
disability insurance
disablement benefit
disaccord with
disaccustom yourself
disadvantaged, the
disagree with
disappearing act
disappoint your expectations
disapprove of
disapproved place
disaster area
disastrous defeat
disazo dye
disburden you of
disburden your conscience
disburden your heart
disburden your mind
disc brake
disc flower
disc harrow
disc jockey
disc wheel
disc-
discar- nate
discernment of excellence
discharge lamp
discharge potential
discharge printing
discharge the duties of
discharge the functions of
discharge the office of
discharge tube
discharge valve
discharge your duty
discharge your function
discharger cup
discharging arch
discharging cargo
discharging freight
discharging pallet
disciples of Christ
disciplinary action
disciplinary measures
discipline yourself
disco-
disconnecting switch
discontinuance wage
discontinuity layer
discord with
discount bond
discount broker
discount company
discount house
discount market
discount notes
discount rate
discount store
discount ticket
discount yourself
discourse about
discourse of reason
discourse upon
discourse with
discover itself
discover serendipitously
discover yourself
discovered check
discovery procedure
discrete atom
discrete four-channel system
discretionary account
discretionary income
discriminant function
discriminate against
discriminating relay
discriminating taste
discrimination learning
discrimination time
discursive reason
discursive reasoning
discus thrower
discuss with
discussion group
disdain grammar
disease germ
disease symptom
disease-causing
disease-causing agent
disease-producing
disease-producing microorganism
disease-resisting
disease-spreading
diseased mind
diseases of
disembodied spirit
disen-
disengagement governor
disgrace yourself
disguise yourself
disguised as a virtue
disk brake
disk brakes
disk clutch
disk crank
disk cultivator
disk drill
disk dynamo
disk engine
disk floret
disk flower
disk furrower
disk go-devil
disk harrow
disk hiller
disk jockey
disk memory
disk meter
disk pack
disk photometer
disk pile
disk plow
disk ridge buster
disk sander
disk signal
disk stove
disk system
disk telegraph
disk valve
disk weeder
disk wheel
disk winding
disk-bearing
disk-seal tube
disk-shaped
dismiss all doubt
dismiss from the mind
dismiss from the thoughts
dismiss from your thoughts
dismiss with a laugh
dismissal wage
dismissed out of hand
disobey the law
disodium phosphate
disordered mind
disordered personality
disordered reason
disorderly conduct
disorderly house
disorderly person
disparaging remark
dispatch boat
dispatch box
dispatch case
dispatch money
dispatch note
dispatch rider
dispatch tube
dispatch writer
dispatch writing
dispatch-bearer
dispatch-bearing
dispatch-rider
dispel your illusions
dispensations of providence
dispense from
dispense with
dispensed with
dispersal prison
disperse system
dispersion hardening
dispersion medium
dispensive power
displaced person
displaced population
displacement activity
displacement current
displacement hull
displacement pump
displacement ton
displacement tonnage
display ad
display advertising
display art
display bracket
display card
display case
display cover
display figure
display form
display pipe
display room
display sign
display station
display type
display window
display work
disposable income
disposable resources
disposal of the dead
dispose of
disposed of
disposed to
disposed to doubt
disposition to believe
dispossessed of
disputed election
disregard the law
disreputable person
disruptive discharge
dissecting microscope
dissecting table
disserctor tube
dissel-boom
disseminated sclerosis
disseminated tuberculosis
dissent from
dissenting opinion
dissipate your illusions
dissipation trail
dissociate yourself from
dissociation coefficient
dissociation constant
dissociation of personality
dissociation reaction
dissolution of marriage
dissolve in tears
dissolve into chaos
dissolve marriage
dissolve out
dissolved in tears
dissolving agent
dissolving view
dissonant chord
dissonant sounds
distaff kin
distaff side
distaff thistle
distal convoluted tubule
distance across
distance between
distance circle
distance crossways
distance crosswise
distance flag
distance language
distance made good
distance medley
distance of time
distance post
distance receptor
distance ring
distance scale
distance through
distant early warning
distant early warning line
distant future
distant past
distant perspective
distant prospect
distant relation
distantly and broadly
distantly related
distended belly
distilled essence
distilled water
distilling flask
distilling tube
distinction without a difference
distinctive feature
distinguish between
distinguished flying cross
disto-occlusion
distorted conception
distorted image
distorting mirror
distract attention from
distract the attention
distress call
distress flag
distress frequency
distress gun
distress merchandise
distress sale
distress signal
distressed area
distributed costs
distributed term
distribution board
distribution curve
distribution difference
distribution function
distribution ratio
distributive education
distributor bar
district attorney
district council
district court
district judge
district leader
district man
district nurse
district parish
district school
district superintendent
districts of
distrust yourself
disturbed mind
disturbed personality
disulpho-
disulphuric acid
dit-da artist
dita bark
ditat Deus
ditch crowfoot
ditch fern
ditch grass
ditch hand
ditch machine
ditch millet
ditch moss
ditch reed
ditch rider
ditch spade
ditch stonecrop
ditch sunflower
ditch-delivered
ditch-drawn
ditch-moss
ditching car
ditching machine
ditching scoop
dithering grass
dithionic acid
dithionous acid
ditto machine
ditto mark
ditto marks
ditty bag
ditty box
ditty-bag
diurnal arc
diurnal circle
diurnal epilepsy
diurnal parallax
diva blue
divaricate from
dive bomber
dive bombing
dive brake
dive in
dive into
dive-bomb
dive-bombing
dive-dap
dive-dapper
diver's palsy
diverge from
divergence theorem
divergent squint
divergent strabismus
divergent thinking
diverging lens
divers-colored
diverse control
diverse-colored
diverse-natured
diverse-shaped
diversi-
diversified corporation
diversified economy
diversion chamber
diversion cut
diversionary attack
diversionary movement
diversity factor
diversity of colors
divert attention
divert the mind
divert the thoughts
divest of freedom
divest of office
divi-divi
divide by four
divide et impera
divide in thirds
divide in three
divide into four
divide into shares
divide on
divide up
divide with
divided attention
divided highway
divided spectacles
dividend off
dividend on
dividend warrant
dividing engine
dividing head
dividing line
dividing plate
dividing ridge
dividing sinker
dividing wall
divine afflatus
divine attribute
divine breath
divine discontent
divine function
divine healer
divine healing
divine inspiration
divine liturgy
divine office
divine revelation
divine right
divine right of kings
divine service
divine spark
divine tobacco
divine-human
diving beetle
diving bell
diving bird
diving bladder
diving board
diving boat
diving chamber
diving dress
diving duck
diving engine
diving equipment
diving float
diving goggles
diving helmet
diving hood
diving machine
diving mask
diving platform
diving raft
diving rudder
diving suit
diving togs
divining rod
divining stick
divinity calf
divinity circuit
divinity circuit binding
divinity fudge
divinity school
divinity student
divinyl ether
division algebra
division algorithm
division center
division engineer
division in the camp
division line
division lobby
division mark
division of labor
division ring
division sign
division superintendent
divorce court
divorce mill
divorced man
divorced person
divorced woman
divvy up
divvy up with
divvying up
dixieland band
dizzy heights
dizzy round
dj-
djati tree
do a bit
do a bunk
do a comparative study
do a deal
do a disservice
do a fade-out
do a favor
do a flip-flop
do a good deed
do a good turn
do a grave injustice
do a great wrong
do a gross injustice
do a hand's turn
do a hitch
do a kind deed
do a kindness
do a land-office business
do a lick of work
do a mischief
do a number on
do a repeat
do a right-about-face
do a service
do a slow burn
do a stint
do a strip-tease
do a tour
do a tour of duty
do a turn to the right-about
do a vanishing act
do a world of good
do active duty
do again
do all in your power
do all right by yourself
do all the talking
do all you can
do amiss
do an about-face
do an about-turn
do an ill office to
do an impression of
do anyhow
do as much as in one lies
do as others do
do as well as you can
do as you please
do as you say
do as you would be done by
do at the bidding of
do at your convenience
do at your leisure
do at your own peril
do at your own risk
do at your pleasure
do away with
do away with yourself
do battle
do business
do business with
do by
do by halves
do carelessly
do chars
do credit to
do credit to someone
do double duty
do down
do down to the ground
do duty
do easily
do everything you can
do evil
do for
do for yourself
do good
do harm
do homage
do homage to
do honor
do honor to
do ill
do in
do in a pinch
do in a slipshod fashion
do in any old way
do in your own sweet way
do independently
do it
do it according to Hoyle
do it by the book
do it or break a leg
do it or bust a gut
do it up brown
do justice
do justice to
do like
do no evil
do no harm
do not give it a second thought
do not give it another thought
do nothing
do nothing in excess
do obeisance
do of your own accord
do of your own free choice
do of your own free will
do of your own volition
do offhand
do on an average
do on your own
do on your own hook
do on your own initiative
do on your own say-so
do or die
do out
do out of
do over
do over again
do penance
do proud
do right
do right by
do service
do service for
do service to
do some heavy thinking
do someone credit
do someone dirt
do something
do something about
do suit and service
do superfluously
do svidanye
do tell
do the best you can
do the best you know how
do the chores
do the crazy act
do the crazy bit
do the crazy shtick
do the deadman's float
do the dirty work of
do the disappearing act
do the fair thing
do the goose step
do the handsome thing
do the heart good
do the honors
do the job
do the lock step
do the needful
do the proper thing
do the right thing
do the right thing by
do the spadework
do the trick
do the unexpected
do the will of
do time
do to
do to a T
do to a fizzle
do to a turn
do to death
do to perfection
do too many things at once
do up
do up brown
do violence to
do voluntarily
do well
do what is expected
do what is right
do what lies in your power
do what you are told
do what you can
do what you choose
do what you have to do
do what you like
do what you set out to do
do what you wish
do with
do with both eyes shut
do without
do wonders
do wrong
do wrong by
do wrong to
do you a wrong
do you an injustice
do you proud
do your best
do your bidding
do your bit
do your damndest
do your darndest
do your duty
do your heart good
do your level best
do your number
do your office
do your part
do your share
do your stuff
do your thing
do your utmost
do your worst to
do yourself proud
do-all
do-dad
do-funny
do-good
do-gooder
do-goodism
do-it-yourself
do-it-yourselfer
do-little
do-naught
do-nothing
do-nothing adv
do-nothing policy
do-nothingism
do-nothingness
do-nought
do-or-die
do-over
do-re-mi
do-si-do
do-up
dob in
dobber-in
dobbin cart
dobby loom
dobby weave
dobell’s solution
doberman pinscher
dobson fly
doch-an-dorrach
doch-an-dorris
doch-an-dorroch
dock boss
dock bur
dock charge
dock cooper
dock crane
dock cress
dock crew
dock derrick
dock dues
dock foreman
dock gate
dock hand
dock hoist
dock inspector
dock laborer
dock light
dock nettle
dock port
dock porter
dock receipt
dock rent
dock screw
dock shunter
dock sill
dock sorrel
dock space
dock spike
dock superintendent
dock trade
dock warehouse
dock warrant
dock-leaved
dock-tailed
dock-walloper
dock-walloping
docking bridge
docking cradle
docking keel
docking maneuver
docking pilot
docking plan
docking telegraph
doctor accounts
doctor blade
doctor file
doctor fish
doctor up
doctor's degree
doctor's gown
doctor's oral
doctoral candidate
doctrinal statement
doctrinal theology
doctrine of descent
documentary drama
documentary evidence
documentary film
dodder family
dodder grass
doddy mitten
dodeca-
dodecanoic acid
dodecuple scale
dodecyl aldehyde
dodge ball
dodge chain
dodging tool
dodo split
doeing oil
doeskin brown
doff your cap to
doffing comb
doffing cylinder
doffing knife
dog Latin
dog ape
dog bee
dog belt
dog bent
dog biscuit
dog blanket
dog box
dog bramble
dog breeder
dog bur
dog button
dog cabbage
dog cake
dog camomile
dog carrier
dog chain
dog chart
dog cherry
dog clipper
dog clutch
dog collar
dog cracker
dog crate
dog curtain
dog daisy
dog dandelion
dog days
dog disease
dog dollar
dog elder
dog family
dog fancier
dog fennel
dog flea
dog flesh
dog flower
dog food
dog fox
dog grass
dog grate
dog harness
dog hip
dog hobble
dog hood
dog hook
dog hospital
dog hysteria
dog in the manger
dog iron
dog it
dog kennel
dog laurel
dog leech
dog letter
dog license
dog lichen
dog life
dog lily
dog louse
dog lover
dog meat
dog mercury
dog mint
dog muzzle
dog nail
dog nap
dog nettle
dog owl
dog owner
dog paddle
dog parsley
dog plum
dog poison
dog pound
dog race
dog racing
dog reed
dog robber
dog robbing
dog rose
dog rowan tree
dog salmon
dog screw
dog seal
dog shark
dog show
dog sled
dog sledge
dog sleigh
dog snapper
dog soap
dog spike
dog standard
dog star
dog stealing
dog stinkhorn
dog tag
dog tansy
dog tapeworm
dog tax
dog tent
dog the footsteps of
dog thistle
dog thorn
dog tick
dog tongue
dog town
dog track
dog train
dog trainer
dog training
dog tree
dog tune
dog violet
dog wagon
dog warden
dog warp
dog watch
dog wheat
dog wheel
dog whelk
dog whip
dog whistle
dog winkle
dog wrench
dog's age
dog's chance
dog's letter
dog's life, a
dog's-bane
dog's-ear
dog's-eared
dog's-meat
dog's-tail
dog's-tail grass
dog's-tongue
dog's-tooth
dog's-tooth check
dog's-tooth violet
dog-banner
dog-bitten
dog-bramble
dog-brier
dog-cart
dog-catcher
dog-cheap
dog-day cicada
dog-days
dog-draw
dog-drawn
dog-driven
dog-ear
dog-eared
dog-eat-dog
dog-end
dog-eyed
dog-faced
dog-fennel
dog-fish
dog-fisher
dog-fly
dog-footed
dog-fox
dog-gnawn
dog-gone
dog-grass
dog-head
dog-head hammer
dog-head spike
dog-headed
dog-hole
dog-hook
dog-hungry
dog-hutch
dog-in-the-manger
dog-keeping
dog-lame
dog-latin
dog-lean
dog-leaved
dog-leech
dog-leg
dog-leg fence
dog-leg hole
dog-leg stair
dog-legged
dog-legged stair
dog-mad
dog-nail
dog-owning
dog-paddle
dog-paddled
dog-paddling
dog-plum
dog-poor
dog-rose
dog-shore
dog-sick
dog-skin
dog-sleep
dog-star
dog-stone
dog-stopper
dog-tired
dog-toes
dog-tongue wampee
dog-tooth
dog-toothed
dog-tree
dog-trick
dog-trot
dog-vane
dog-violet
dog-watch
dollar-a-year man
dollars to doughnuts
dolled up
dolly bar
dolly bird
dolly drop
dolly mixture
dolly shop
dolly shot
dolly varden
dolly-head
dolly-mop
dolman jacket
dolman sleeve
dolomite marble
dolorous tirade
dolphin fly
dolphin oil
dolphin striker
dolphin-flower
dolphin-striker boom
dom pedro
domain of integrity
dome car
dome tomb
dome top
dome whistle
dome-shaped
domes-booke
domesday book
domestic animal
domestic animals
domestic cat
domestic cattle
domestic comedy
domestic drudge
domestic economy
domestic fowl
domestic management
domestic prelate
domestic relations law
domestic science
domestic servant
domestic shorthair cat
domestic tragedy
domestic wine
domestic-relations court
domiciliary visit
dominant character
dominant chord
dominant estate
dominant note
dominant seventh chord
dominant tenement
dominant wavelength
dominate the field
domine dirige nos
domineer over
dominical altar
dominical letter
dominion day
domination rule
domino effect
domino mask
domino paper
domino theory
domino whist
domitae naturae
don juan
don quixote
don't I know it
don't hold your breath
don't kid yourself
don't know
don’t lose any sleep over it
don’t make waves
don’t rock the boat
don’t spare the horses
donate to
donation land
donation party
done for
done in
done to a turn
done to perfection
done up
done with
donjon keep
donkey boiler
donkey boy
donkey crosshead
donkey derby
donkey doctor
donkey ears
donkey engine
donkey hoist
door spring
door stile
door strap
door switch
door to door
door track
door trap
door trapper
door-roller
door-shaped
door-to-door
door-to-door salesman
dooryard grass
dooryard plantain
dop doctor
dopa reaction
dope fiend
dope off
dope out
dope pusher
dope sheet
dope smuggling
dope story
dope up
dope, the
doppler effect
dor bee
dor bug
dor fly
dor-fly
dorcas gazelle
dore bullion
dore furnace
dormant partner
dormer beam
dormer window
dormer-windowed
dormitory suburb
dormouse phalanger
dorothy perkins
dors-
dors-umbonal
dorsal airdome
dorsal blister
dorsal fin
dorsal lip
dorsal region
dorsal root
dorsal-root ganglion
dorset horn
dorsi-
dorsi-ventral
dorso-
dorso-occipital
dorso-ulnar
dorsum ephippii
dory skiff
dos and don'ts
dos gris
dos nominata
dos rationabilis
dos-
dos-a-dos
dosage compensation
dosage meter
dose of clap
dose of claps
dose of strap oil
dose with
dosimetric medicine
dosing apparatus
dosing siphon
dosing tank
doss down
doss house
dot down
dot figure
dot map
dot product
dot the i's and cross the t's
dot your i's and cross your t's
dot-dash line
dot-sequential
dot-sequential color television
dote on
dote upon
dotted line
dotted swiss
dotterel dun
dottle pin
douay version
double Blackwall hitch
double Dutch
double Gloucester
double Spanish burton
double a point
double achievement
double acrostic
double action engine
double agent
double algebra
double altar
double back
double bar
double bass
double bassoon
double batten
double bed
double bill
double bind
double block
double blossom
double boiler
double bond
double bridle
double bunk
double centering
double check
double chin
double cloth
double coconut
double concerto
double contingency
double contraoctave
double corposant
double counterpoint
double cream
double crochet
double cross
double crown
double cup
double dagger
double dare
double date
double decomposition
double demy
double diode
double dome
double dot
double double cap
double dresser
double drift
double dummy
double eagle
double play
double pneumonia
double possessive
double post
double precision
double predestination
double prime
double print
double purchase
double quatrefoil
double quotes
double reed
double reference
double refraction
double rhyme
double royal
double salt
double sap
double saucepan
double sawbuck
double scull
double sculls
double sharp
double shuffle
double sideband
double sight
double solitaire
double space
double spinnaker
double spread
double spirt
double standard
double star
double steal
double stem
double stitch
double stop
double summer time
double tackle
double take
double talk
double tape
double ten
double tide
double time
double triode
double truck
double up
double vision
double whip
double whole note
double wicket
double wing
double wingback formation
double your fist at
double-O
double-Os
double-acting
double-acting engine
double-action
double-action harrow
double-armed
double-armed bolt
double-aspect theory
double-bank
double-banked
double-banker
double-barred
double-barrel
double-barreled
double-barrelled
double-bass
double-battalioned
double-heat valve
double-bedded
double-bell euphonium
double-benched
double-hitting
double-bitt
double-bitted
double-bladed
double-blind
double-blossomed
double-bodied
double-bond isomerism
double-bottom
double-bottomed
double-branch
double-branched
double-break switch
double-breasted
double-breasted jacket
double-breasted suit
double-brooded
double-bubble
double-button carbon microphone
double-dotted
double-duty
double-dye
double-dyed
double-edged
double-end saw file
double-ended
double-ended bolt
double-ender
double-ender file
double-engined
double-entry accounting
double-entry bookkeeping
double-entry system
double-entry table
double-eyed
double-face
double-faced
double-facedly
double-facedness
double-fault
double-feature
double-flowered
double-flowering
double-fold
double-footed
double-framed
double-fronted
double-ganger
double-gilt
double-handed
double-harness
double-hatched
double-head
double-headed
double-header
double-hearted
double-helical
double-helical gear
double-horned
double-hung
double-image micrometer
double-image prism
double-image telescope
double-ironed
double-jointed
double-keeled
double-knit
double-language theory
double-leaded
double-liability stock
double-line
double-lived
double-livedness
double-loaded
double-loathed
double-lock
double-lunged
double-magnum
double-manned
double-measure door
double-milled
double-minded
double-mindedly
double-mindedness
double-mouthed
double-name paper
double-natured
double-opposed
double-or-nothing
double-page spread
double-park
double-parted and pretty
double-pedal
double-piled
double-pipe condenser
double-pointed
double-pole switch
double-pored
double-ported
double-printing
double-prop
double-queue
double-quick
double-quick time
double-quirked
double-reed
double-reed family
double-reed instrument
double-reef
double-reefed
double-refined
double-refracting
double-ripper
double-rivet
double-riveted
double-roller escapement
double-rooted
double-row radial engine
double-runner
double-scull
double-seated valve
double-seater
double-seeing
double-sensed
double-shear steel
double-shed insulator
double-shot
double-sided
double-sidedness
double-sighted
double-slide
double-soled
double-space
double-spaced
double-spacing
double-spun
double-starred
double-stemmed
double-stitch
double-stitched
double-stop
double-stopped
double-stopping
double-strength
double-struck
double-sunk
double-sunk dial
double-surfaced
double-swing door
double-swing joint
double-sworded
double-system sound recording
double-tailed
double-talk
double-team
double-think
double-thong
double-thread
double-threaded
double-throw switch
double-time
double-timed
double-timing
dough-kneading
dough-mixing
dough-trough
doughnut tire
douglas fir
doum palm
dousing chock
dousing-chock
dove blue
dove color
dove dock
dove gray
dove hawk
dove of peace
dove plant
dove pox
dove tick
dove-colored
dove-eyed
dove-gray
dove-shaped
dover grass
dover's powder
dovetail cramp
dovetail halving
dovetail hinge
dovetail joint
dovetail molding
dovetail plane
dovetail saw
dovetail slide
dovetail-shaped
dowdy frumpish
dowel bit
dowel jig
dowel maker
dowel pin
dowel plate
dowel pointer
dowel rod
dowel screw
dowel sharpener
dowel spoke
dowel stick
dower chest
dower house
down East
down along
down and out
down at heel
down at heels
down at the heel
down at the heels
down bed
down below
down by the head
down card
down cushion
down feather
down grade
down helm
down home
down in the mouth
down in the world
down left
down on
down on your luck
down on your uppers
down pat
down payment
down picker
down pillow
down pipe
down plucker
down plumage
down right
down runner
down south
down the alley
down the drain
down the hatch
down the pipe
down the rathole
down the spout
down the wind
down thistle
down time
down to bedrock
down to the ground
down to your last cent
down to your last penny
down tree
down trip
down under
down weight
down wool
down your arms
down-and-out
down-and-outer
down-at-heel
down-at-heels
down-at-the-heel
down-at-the-heels
down-beater
down-bow
down-charge
down-coast
down-covered
down-crier
down-curving
down-drag
down-draught
down-easter
down-gyved
down-hip
down-house
down-in-the-mouth
down-lead
down-lying
down-market
down-payment
down-reaching
down-river
down-soft
down-talk
down-the-line
down-to-date
down-to-earth
down-to-earthness
down-trending
down-valley
down-wash
downat-the-heel
downdraft kiln
downfeed system
downing of arms
downside-up
downward mobility
downward motion
downward trend
downwash angle
downwind leg
downy mildew
downy oat grass
downy sleep
downy woodpecker
downy-cheeked
downy-clad
downy-feathered
downy-fruitied
downy-winged
dowse for water
dowse sail
dowsing chock
dowsing rod
doze off
dr ap
drab-breeched
drab-coated
drab-colored
drab-tinted
drabble in the mud
dracaena palm
draco lizard
draconic month
draft act
draft allowance
draft animal
draft beer
draft board
draft box
draft call
draft chair
draft dodger
draft engine
draft evener
draft gauge
draft gear
draft horse
draft lottery
draft mark
draft mill
draft net
draft off
draft pin
draft rein
draft rod
draft scale
draft tube
draft-exempt
drafted man
drafting board
drafting paper
drafting room
drafting yard
drag a lengthening chain
drag along
drag anchor
drag at your chariot wheel
drag axis
drag before the public
drag boat
drag box
drag bucket
drag bunt
drag cart
drag chain
drag classifier
drag component
drag conveyer
drag crank
drag direction
drag down
drag fold
drag force
drag from
drag harrow
drag hook
drag horse
drag hunt
drag in
drag in by the heels
drag in the mud
drag into
drag into court
drag into the limelight
drag iron
drag its slow length along
drag link
drag mill
drag on
drag out
drag out of
drag over the coals
drag parachute
drag race
drag racer
drag racing
drag rake
drag ratio
drag sail
drag scraper
drag seine
drag sheet
drag spring
drag step
drag strip
drag strut
drag through the mud
drag tooth
drag twist
drag up
drag washer
drag wire
drag your feet
drag-chain
drag-down
drag-hook
drag-out
drag-staff
drag-stone mill
dragged into
dragged out
dragged-out
dragger-down
dragger-out
dragger-up
dragging beam
dragging down
dragging of the feet
dragging pace
dragging piece
dragging-out
draggle-haired
draggle-tail
draggle-tailed
dragline crane
dragline dredge
dragline excavator
dragnet clause
dragon arum
dragon balloon
dragon beam
dragon claw
dragon fish
dragon gum
dragon lizard
dragon piece
drainage coefficient
drainage cycle
drainage district
drainage gate
drainage inlet
drainage inspector
drainage level
drainage pipe
drainage pit
drainage pump
drainage shaft
drainage system
drainage theory
drainage tile
drainage trap
drainage tube
drainage tunnel
drainage well
drainage wind
drained of color
draining board
draining tile
drake fly
drake foot
drake green
dram apothecaries'
dram avoirdupois
dram filler
dram glass
drama critic
drama league
drama production
drama-writing
dramatic art
dramatic form
dramatic irony
dramatic lyric
dramatic monologue
dramatic overture
dramatic play
dramatic poetry
dramatic series
dramatic soprano
dramatic stroke
dramatic structure
dramatico-musical
dramatis personae
drap d'or
drape yourself
drapers teasel
draught off
draught-bridge
dravidian languages
draw a bead on
draw a blank
draw a comparison
draw a conclusion
draw a deep breath
draw a gun on
draw a long breath
draw a parallel
draw a picture
draw a straight furrow
draw ahead
draw an inference
draw and quarter
draw aside
draw away
draw back
draw blank
draw boundaries
draw breath
draw chain
draw cock
draw curtain
draw distinctions
draw dock
draw down
draw first blood
draw forth
draw from
draw game
draw gear
draw hole
draw in
draw in your claws
draw in your horns
draw into
draw it fine
draw lots
draw man
draw near
draw nigh
draw off
draw off the attention
draw on
draw on futurity
draw on the future
draw out
draw over
draw pin
draw play
draw poker
draw press
draw profit
draw rein
draw runner
draw shot
draw slate
draw slip
draw step
draw straws
draw string
draw tab
draw table
draw taper
draw taut
draw tears
draw the attention
draw the breath of life
draw the color line
draw the curtain on
draw the curtains
draw the fangs
draw the fangs of
draw the line
draw the line at
draw the longbow
draw the purse strings
draw the sword against
draw the teeth
draw the teeth of
draw the veil
draw to a close
draw to a head
draw to a peak
draw together
draw top
draw towards
draw up
draw up a plan
draw up a will
draw wages
dream girl
dream life
dream light
dream name
dream of
dream of other things
dream on
dream state
dream stuff
dream symbolism
dream time
dream up
dream vision
dream wish
dream work
dream world
dream-blinded
dream-born
dream-built
dream-created
dream-footed
dream-found
dream-haunted
dream-haunting
dream-hole
dream-perturbed
dream-stricken
dreamer of dreams
dreamless sleep
dreamlike thinking
dreamy abstraction
dreamy-eyed
dreamy-minded
dreamy-souled
dreamy-voiced
drear-nighted
drear-white
dreary-eyed
dreary-looking
dreary-minded
dreary-souled
dredge belt
dredge boat
dredge box
dredge bucket
dredge can
dredge chain
dredge gear
dress-maker
dress-making
dress-up
dressed fit to kill
dressed to advantage
dressed to kill
dressed to the nines
dressed to the teeth
dressed up
dresser cutter
dresser set
dresser spindle
dresser spooler
dresser top
dresser trunk
dressing case
dressing down
dressing forceps
dressing glass
dressing gown
dressing jacket
dressing room
dressing sack
dressing ship
dressing station
dressing table
dressing-board
dressing-case
dressing-down
dressmaker's model
dribble away
driblet cone
dribs and drabs
dried beef
dried milk
dried up
dried-fruit beetle
dried-up
drier-down
drift along
drift anchor
drift angle
drift avalanche
drift away
drift boat
drift bottle
drift copper
drift fisher
drift ice
drift indicator
drift keel
drift lead
drift map
drift meter
drift mine
drift mining
drift net
drift netter
drift off course
drift plug
drift sail
drift sight
drift slide
drift transistor
drift tube
drift wire
drift with the current
drift-ice
drift-netter
drift-wood
driggle-draggle
drill attachment
drill barrel
drill barrow
drill bit
drill block
drill book
drill bow
drill bushing
drill cartridge
drill case
drill changer
drill chuck
drill clamp
drill cleaner
drill cloth
drill collar
drill collet
drill corps
drill cutter
drill cylinder
drill day
drill drift
drill driver
drill engine
drill extension
drill-like
drilling bit
drilling fluid
drilling hammer
drilling jig
drilling journal
drilling machine
drilling mud
drilling stem
drilling track
drink a stirrup cup
drink a toast to
drink bottoms-up
drink deep
drink hard
drink in
drink in with rapt attention
drink like a fish
drink mixer
drink money
drink off
drink offering
drink seriously
drink the health of
drink to
drink up
drink-hael
drink-hail
drinker moth
drinking age
drinking bout
drinking cup
drinking fountain
drinking glass
drinking horn
drinking house
drinking mug
drinking place
drinking saloon
drinking song
drinking straw
drinking time
drinking trough
drinking vessel
drinking vessels
drinking water
drinking-up time
drip band
drive in
drive insane
drive into a corner
drive into the open
drive into your head
drive mad
drive nozzle
drive off
drive on
drive out
drive screw
drive shaft
drive shoe
drive stakes
drive the pen
drive the pencil
drive to despair
drive to desperation
drive to leeward
drive to ruin
drive to the bad
drive to the dogs
drive to the wall
drive together
drive train
drive up the wall
drive wheel
drive whist
drive you hard
drive you mad
drive yourself
drive-
drive-in
drive-in restaurant
drive-in theater
drivel away
driveleng idiot
driven from pillar to post
driven snow
driver ant
driver mast
driver's license
driver's seat
driving age
driving and striking force
driving axle
driving band
driving barrel
driving bit
driving board
driving box
driving chain
driving clock
driving dog
driving drum
driving face
driving fit
driving force
driving gear
driving horn
driving horse
driving iron
driving licence
driving mashie
driving mirror
driving out
driving park
driving plate
driving power
driving punch
driving rain
driving range
driving sail
driving shaft
driving snow
driving spring
driving wagon
driving wheel
driving-box
driving-wheel
drizzle-drozzle
drizzling mist
drof-land
drogue chute
droit des gens
droit du seigneur
droits des gens
dromedary corps
dromos tomb
drone bass
drone bee
drone cell
drone fly
drongo cuckoo
drongo shrike
droop-eared
droop-headed
droop-nosed
drooping spirits
drop a bomb
drop a brick
drop a hint
drop a letter
drop a line
drop a tear
drop all idea of
drop anchor
drop arch
drop asleep
drop away
drop bar
drop behind
drop biscuit
drop black
drop bolt
drop bomb
drop bottom
drop box
drop by
drop by drop
drop cannon
drop chalk
drop chronograph
drop cloth
drop cooky
drop cord
drop curtain
drop dead
drop down
drop ear
drop elbow
drop ell
drop fly
drop folio
drop forge
drop forging
drop frame
drop from sight
drop from the clouds
drop from your thoughts
drop front
drop game
drop girt
drop glass
drop goal
drop guide
drop hammer
drop hammerman
drop handle
drop hanger
drop head
drop in
drop in on
drop in temperature
drop in the bucket
drop in the ocean
drop in your tracks
drop initial
drop into a good thing
drop it
drop jaw
drop keel
drop key
drop kick
drop lamp
drop leaf
drop letter
drop like a hot potato
drop line
drop number
drop off
drop on
drop out
drop out of society
drop panel
drop pass
drop pit
drop press
drop roller
drop rudder
drop scene
drop scone
drop screen
drop seat
drop serene
drop shipment
drop shipper
drop shot
drop shutter
drop siding
drop stitch
drop strake
drophead coup
droplet fall
droplet infection
dropped egg
dropped eggs
dropped from the clouds
dropped girt
dropped scone
dropped seat
dropper fly
dropper-on
dropping anchor
dropping angle
dropping bottle
dropping out
dropsy plant
dropsy-dry
dropsy-sick
drought-parched
drought-resisting
drought-stricken
drove chisel
drove work
drove-road
drown care
drown out
drown your sorrows
drowned coast
drowned valley
drowning rain
drowse off
drug abuser
drug addict
drug addiction
drug beetle
drug bottler
drug carriage
drug clerk
drug compounder
drug culture
drug dependence
drug dose
drug fiend
drug grinder
drug habit
drug ice
drug in the market
drug mixer
drug on the market
drug packet
drug pulverizer
drug pusher
drug rash
drug seller
drug store
drug treatment
drug trip
drug user
drug weigher
drug-addicted
drug-damned
drug-grinding
drug-mixing
drug-pulverizing
drug-selling
drug-using
drugged sleep
drugged with sleep
drugstore beetle
drugstore complexion
drugstore cowboy
druid stone
drum armature
drum brake
drum clock
drum controller
drum corps
drum dam
drum escapement
drum feed
drum language
drum major
drum majorette
drum malt
drum memory
drum music
drum out
drum paneling
drum puller
drum sander
drum saw
drum scale
drum screen
drum sieve
drum slide
drum spool
drum stuffing
drum switch
drum table
drum up
drum washer
drum wheel
drum winding
drum-major
drum-major's baton
drum-shaped
drum-type elevator
drum-up
drum-wound
drumble-drone
drumhead cabbage
drumhead court-martial
drumhead justice
drumming out
drummond light
drumstick tree
drunk as a fiddler
drunk as a lord
drunk as a piper
drunk as an owl
drankard's chair
drunken brawl
drunken carousel
drunken plant
drunken revelry
drunken rye grass
drunken saw
dry air
dry ammunition
dry as a bone
dry as dust
dry battery
dry beater
dry bed
dry behind the ears
dry bone
dry bones
dry cell
dry cereal
dry cleaner
dry cleaning
dry compass
dry cooper
dry distillation
dry dock
dry farm
dry farmer
dry farming
dry fire
dry fly
dry fog
dry freeze
dry fresco
dry gangrene
dry garden
dry goods
dry goods dealer
dry goods store
dry hole
dry ice
dry kiln
dry lake
dry land
dry law
dry martini
dry measure
dry milk
dry miller
dry mixer
dry mop
dry nurse
dry offset
dry out
dry pint
dry pipe
dry plate
dry pleurisy
dry point
dry puddling
dry quart
dry rent
dry rot
dry run
dry sailing
dry sailor
dry season
dry socket
dry spinner
dry steam
dry sterile thunder without rain
dry storage
dry up
dry wash
dry well
dry wine
dry wit
dry womb
dry-air pump
dry-as-dust
dry-beat
dry-blowing
dry-bone ore
dry-boned
dry-bones
dry-brush
dry-bulb thermometer
dry-burnt
dry-clean
dry-cleanse
dry-cleanse
dry-cleansing
dry-cure
dry-curing
dry-dock
dry-dye
dry-ear
dry-eyed
dry-farm
dry-fine
dry-fist
dry-fly
dry-fly fishing
dry-foot
dry-footed
dry-footing
dry-founder
dry-fruited
dry-grind
dry-gulch
dry-handed
dry-heat cure
dry-ki
dry-land blueberry
dry-land farming
dry-leaved
dry-lipped
dry-looking
dry-mouthed
dry-nurse
dry-nursed
dry-nursing
dry-paved
dry-pick
dry-pipe system
dry-pipe valve
dry-plate process
dry-powder extinguisher
dry-press
dry-press process
dry-roasted
dry-rot
dry-rotted
dry-rub
dry-sail
dry-salt
dry-salted
dry-scrubbed
dry-shave
dry-shod
dry-shoot
dry-skinned
dry-soled
dry-stone
dry-tamp machine
dry-throated
dry-tongued
dry-weather flow
dry-weather vine
drying blotter
drying cabinet
drying chamber
drying fan
drying floor
drying frame
drying house
drying kiln
drying loft
drying oil
drying oven
drying pan
drying paper
drying rack
drying room
drying shed
drying tray
drying tube
drying up
drying yard
dryland farming
dryness fraction
du Bellay
du Cerceau
du Nouy tensiometer
du Vigneaud
du jour
dual carriageway
dual citizenship
dual controls
dual highway
dual nationality
dual personality
dual pricing
dual purpose fund
dual space
dual-control trainer
dual-purpose
dub bright
dub in
duc de Rivoli
duces tecum
duchesse bed
duchesse lace
duck acorn
duck and drake
duck and run
duck ant
duck blue
duck breeder
duck bumps
duck call
duck duty
duck egg
duck fit
duck foot
duck grass
duck green
duck gun
duck hawk
duck hunter
duck joint
duck keeper
duck mole
duck moss
duck oak
duck on a rock
duck on drake
duck on the rock
duck out
duck pass
duck pen
duck potato
duck rearer
duck responsibility
duck ring
duck sauce
duck shot
duck sickness
duck snipe
duck soup
duck table
duck the issue
duck wheat
duck willow
duck's arse
duck's bill
duck's egg
duck's meat
duck-bill
duck-billed
duck-billed dinosaur
duck-billed platypus
duck-egg
duck-egg blue
duck-footed
duck-hawk
duck-legged
duck-retter
duck-toed
duckbill cat
duckbill gar
duckbill platypus
ducking stool
ducking-pond
ducking-stool
ducks and drakes
ducktail haircut
duckweed family
duct keel
ductless gland
dudder grass
dude ranch
dude up
due bill
due course
dull-sounding
dull-spirited
dull-surfaced
dull-toned
dull-tuned
dull-voiced
dull-witted
dull-wittedness
dulse dealer
dulse-green
duly constituted
dum spiro spero
dum vivimus vivamus
dumb Dora
dumb ague
dumb animal
dumb barge
dumb barter
dumb bid
dumb bunny
dumb cane
dumb cluck
dumb compass
dumb creature
dumb friend
dumb rabies
dumb sheave
dumb show
dumb stricken
dumb struck
dumb thing to do
dumb trick
dumb up
dumb with grief
dumb-bell
dumb-bird
dumb-cane
dumb-show
dumb-struck
dumb-waiter
dumble-
dumdum bullet
dumdum fever
dummy antenna
dummy block
dummy car
dummy cartridge
dummy cop
dummy experiment
dummy index
dummy joint
dummy pass
dummy share
dummy up
dummy variable
dummy whist
dummy-head torpedo
dump altitude
dump body
dump car
dump heap
dump hook
dump on
dump pile
dump rake
dump scow
dump truck
dump wagon
dumping bucket
dumping car
dumping cart
dumping device
dumping duty
dumping grate
dumping ground
dumping machine
dumping place
dumping press
dumping truck
dumping wagon
dumpling cactus
dumpy level
dun crow
dun diver
dun fly
dun-belted
dun-bird
dun-brown
dun-colored
dun-diver
dun-drab
dun-driven
dun-haunted
dun-olive
dun-plagued
dun-racked
dun-red
dun-white
dun-yellow
dun-yellowish
duncan phyfe
dunce cap
dunce's cap
dundathu pine
dundrea- ries
dune buggy
dune dweller
dune forest
dune grass
dune heath
dune land
dune marsh
dune plant
dune sand
dung bath
dung beetle
dung cart
dung chafer
dung fly
dung fork
dung heap
dung pit
dung worm
dung-cart
dung-fork
dunga-runga
dunghill fowl
dunk tree
duo-
duodecim-
duodecimal system
duodecuple scale
duoden-
duodenal ulcer
duodiode-triode
dupable person
duple measure
duple ratio
duple rhythm
duple time
duplex apartment
duplex bed
duplex boiler
duplex escapement
duplex house
duplex lock
duplex oxygenator
duplex process
duplex pump
duplex purchase
duplex telegraphy
duplex-numeric index
duplexity theory
duplicate bridge
duplicate plate
duplicate-pinnate
duplicating machine
duplication of effort
duplication of the cube
duplicato-
duplicato-dentate
duplicato-serrate
duplicato-ternate
duplicity principle
duplicity theory
dura mater
durable goods
durable press
durance vile
durango root
durante vita
durfa grass
durfee grass
during the interval
during the time
during the time that
during which time
durry-dandy
durum wheat
dusk dark
dusk-down
dusky grouse
dusky shark
dusky-browed
dusky-colored
dusky-faced
dusky-mantled
dusky-raftered
dusky-sandaled
dust ball
dust band
dust bin
dust bowl
dust brush
dust cap
dust cart
dust chamber
dust cloak
dust cloud
dust coat
dust count
dust counter
dust cover
dust devil
dust down
dust exhaust
dust extractor
dust furrow
dust gun
dust heap
dust in the eyes
dust infection
dust jacket
dust louse
dust mop
dust mulch
dust of ages
dust off
dust process
dust remover
dust ruffle
dust seal
dust shot
dust storm
dust thrown in the eye
dust trunk
dust well
dust whirl
dust your jacket
dust-bath
dust-begrimed
dust-box
dust-brand
dust-colored
dust-counter
dust-covered
dust-dry
dust-gray
dust-laden
dust-lying
dwarf morning-glory
dwarf nasturtium
dwarf palmetto
dwarf poinciana
dwarf star
dwarf sumac
dwell in
dwell in your memory
dwell on
dwell upon
dwelling house
dwelling place
dwelling upon
dy-
dyadic system
dyakis-dodecahedron
dycrete process
dye bag
dye base
dye bath
dye boiler
dye box
dye bucket
dye grinder
dye in the wool
dye maker
dye mixer
dye pine
dye pot
dye remover
dye sensitizing
dye tank
dye therapy
dye transfer
dye tub
dye vat
dye works
dye your hands in blood
dyed in the wool
dyed-in-the-wool
dyer's furze
dyer's greenweed
dyer's rocket
dyer's woodruff
dyer's-broom
dyer's-greenweed
dyer's-weed
dyewood clipper
dynatron oscillator
dyne centimeter
dyne-seven
dys-
dysenteric arthritis
dysentery root
dzera-a-rabry pik
dzera-a-torky pik
e layer
e pluribus unum
e region
e-
eV
each and all
each and every
each and every one
each in its turn
each one
each other
each to each
each-where
eager assent
eager attention
eager beaver
eager-eyed
eager-hearted
eager-looking
eager-minded
eager-seeming
eagle bird
eagle boat
eagle claw
eagle eye
eagle feather
eagle fern
eagle flower
eagle gull
eagle hawk
eagle lectern
eagle owl
eagle plume
eagle ray
eagle rock
eagle scout
eagle vulture
eagle wing
eagle-billed
eagle-eyed
ear-minded
ear-mindedness
ear-piercing
ear-rending
ear-rent
ear-ring
ear-splitting
ear-to-ear grin
ear-trumpet
ear-wax
ear-witness
eardrop tree
eared seal
earl duck
earl marshal
earl marshall
earl palatine
earless lizard
earless seal
earlier state
earliest inhabitant
earls palatine
early bird
early blight
early closing
early comer
early death
early edition
early enough
early grave
early hour
early meadow grass
early meadow rue
early mesquite
early on
early purple orchid
early renaissance
early riser
early saxifrage
early stage
early symptom
early times
early warning
early warning system
early wood
early years
early-type star
early-warning radar
earth moss
earth mother
earth movement
earth orbit
earth owl
earth pig
earth pillar
earth pitch
earth plate
earth plum
earth quadrant
earth science
earth smoke
earth spirit
earth spring
earth stopper
earth table
earth tide
earth tilting
earth tone
earth tremor
earth up
earth wave
earth wax
earth wire
earth wolf
earth's crust
earth-apple
earth-ball
earth-board
earth-born
earth-bound
earth-boundness
earth-convulsing
earth-delving
earth-destroying
earth-devouring
earth-din
earth-dwelling
earth-eating
earth-engendered
earth-fed
earth-god
earth-goddess
earth-homing
earth-light
earth-lit
earth-mad
earth-moving
earth-nut
earth-old
earth-refreshing
earth-rending
earth-shaking
earth-sounds
earth-sprung
earth-stained
earth-strewn
earth-vexing
earth-wide
earth-wrecking
earthly minded
earthly-minded
earthly-mindedness
earthly-wise
earthen oil
earthquake insurance
earthquake-proof
ease in
ease matters
ease of belief
ease off
ease one of
ease out
ease the helm
ease the rudder
ease up
ease up to
ease your load
ease yourself
ease-off
ease-up
easel-picture
easement curve
easier said than done
easily attained
easily first
easily reached
easily taken in
easily understood
easing of relations
easing of the load
easing of the way
easing sparrow
east Greenland current
east by north
east by south
east india
east indian
east indies
east wind
east-country
east-end
east-northeast
east-northeastward
east-northeastwardly
east-sider
east-southeast
east-southeastward
east-southeastwardly
east-windy
easter egg
easter lily
easter monday
easter-day
easterly wave
eastern coral snake
eastern crown
eastern diamondback rattlesnake
eastern hemisphere
eastern hemlock
eastern kingbird
eastern orthodox
eastern red cedar
eastern time
easting down
easy aces
easy as falling off a log
easy as pie
easy chair
easy circumstances
easy come
easy come, easy go
easy death
easy does it
easy end
easy game
easy go
easy going
easy lay
easy mark
easy mind
easy money
easy of belief
easy on the eyes
easy pickings
easy prices
easy purse strings
easy rider
easy slope
easy street
easy target
easy temper
easy thing
easy to be seen
easy to get along with
easy to speak to
easy to understand
easy victory
easy virtue
easy winner
easy woman
easy-fitting
easy-flowing
easy-going
easy-hearted
easy-humored
easy-mannered
easy-minded
easy-natured
easy-paced
easy-rising
easy-running
easy-spoken
eat away
eat crow
eat dirt
eat heartily
eat hearty
eat high off the hog
eat humble pie
eat in
eat into
eat like a bird
eat like a horse
eat off the same trencher
eat out
eat out of house and home
eat out of your hand
eat sparingly
eat the bread of idleness
eat the dust of
eat the wind out of
eat to live
eat to windward
eat to windward of
eat up
eat up the road
eat up the track
eat you out of house and home
eat your fill
eat your head off
eat your heart out
eat your terms
eat your words
eat, drink, and be merry
eat-all
eaten up
eaten up with curiosity
eaten-leaf
eater-out
eating house
eating tobacco
eating up
eau de Cologne
eau de Javelle
eau de cologne
eau de jasmin
eau de lavande
eau de nil
eau de rose
eau de toilette
eau de vie
eau de vie de marc
eau forte
eau minerale
eau-de-vie
eaux minerales
eave trough
eaves catch
eaves swallow
eaves trough
eavy-soled
ebb anchor
ebb and flow
ebb of life
ebb sleeper
ebb tide
eboe light
eboe oil
ebony family
ebony spleenwort
e-
ecaillle work
ecca leobion
ece homo
ece signum
eccle grass
eccle-
ecclesiastical calendar
ecclesiastical council
ecclesiastical court
ecclesiastical insignia
ecclesiastical law
ecclesiastical mode
ecclesiastical society
ecclesiastico-military
ecclesiastico-secular
eccrine gland
echelette grating
echelle grating
echelon grating
echelon lens
echin-
echino-
echo attachment
echo back
echo chamber
echo organ
echo pulse
echo signal
echo sounder
echo sounding
echoic word
eclastic medicine
eclipse breeze
eclipse plumage
eclipsing binary
eclipsing variable
eco-
ecological niche
ecological psychology
economic authority
economic blindness
economic class
economic community
economic cycle
economic determinism
economic determinist
economic expansion
economic expert
economic geography
economic geology
economic good
economic growth
economic man
economic planning
economic poison
economic rent
economic science
economic self-sufficiency
economic stagnation
economic strike
economic support
economic system
economic warfare
economical of words
economics in action
economy class
economy coil
economy of assumption
economy of language
economy of means
economy of words
economy prices
economy size
economy wall
ecrevisse de mer
ecru silk
ecto-
exto-
ectopic pregnancy
ecumenical council
ecumenical movement
ecumenical patriarch
ecumenical patriarchate
ed-
eddy chamber
eddy current
eddy-current brake
eddy-wind
edge effect
edge in
edge iron
edge joint
edge molding
eentsy-weentsy
eeny meeny miny moe
ef-
efface from the memory
efface yourself
effect a sale
effect of
effect your escape
effective current
effective electromotive force
effective force
effective horsepower
effective pitch
effective rejoinder
effective resistance
effective sound pressure
effective style
effector organ
effeminate male
efferent neuron
efficiency apartment
efficiency engineer
efficiency engineering
efficiency expert
efficient cause
effigy mound
eflux tube
effort syndrome
effusion balance
effusive rock
efwatakala grass
egads button
egg albumen
egg albumin
egg and anchor
egg and dart
egg and spoon race
egg and tongue
egg apparatus
egg cell
egg coal
egg cozy
egg cream
egg cup
egg drop soup
egg flip
egg foo yong
egg glass
egg in your beer
egg on
egg roll
egg rolling
egg salad sandwich
egg sauce
egg sleeker
egg slice
egg spoon
egg stone
egg tempera
egg timer
egg tooth
egg white
egg whites
egg-and-spoon race
egg-bound
egg-nog
egg-plant
egg-shaped
egg-shell
egg-white
egg-white injury
eggdrop soup
eggs Benedict
eggshell blue
eggshell china
eggshell porcelain
eggy-hot
ego defense
ego defenses
ego ideal
ego trip
ego-id conflict
ego-involve
ego-libido
ego-trip
egoistic ethics
egoistic hedonism
egregious ass
egressAstronomy
egret monkey
egyptian cotton
egypo-
eider down
eider duck
eider yarn
eider-down
elbow bender
elbow board
elbow catch
elbow cop
elbow crooker
elbow grease
elbow in
elbow in the ribs
elbow length
elbow rail
elbow telescope
elbow-shaped
elder bark
elder blossom
elder blow
elder fungus
elder hand
elder statesman
elder wine
elder-born
elder-brother
elder-leaved
elder-sister
elderberry wine
eldest hand
eldest of things
eldest-born
elec cement
elected by acclamation
election board
election district
election fraud
election returns
elective operation
electoral college
electoral district
electoral vote
electr-
electra complex
electric arc
electric attraction
electric beaver
electric blanket
electric blue
electric brougham
electric cable
electric candle
electric capacitance
electric car
electric chair
electric charge
electric circuit
electric clock
electric column
electric conduction
electric constant
electric cooker
electric cord
electric current
electric detonator
electric dipole moment
electric discharge
electric drill
electric driller
electric eel
electric exploder
electric eye
electric fan
electric field
electric field intensity
electric field strength
electric fish
electric flow
electric frying pan
electric furnace
electric fuse
electric gain
electric glow
electric guitar
electric hammer
electric hare
electric heat
electric heater
electric heating
electric horsepower
electric intensity
electric iron
electric lamp
electric light
electric light bulb
electric lighting
electric meter
electric meters
electric mole
electric motor
electric needle
electric organ
electric pad
electric polarity
electric potential
electric power
electric railway
electric range
electric ray
electric razor
electric reactor
electric refrigeration
electric refrigerator
electric repulsion
electric resistance
electric riveter
electric roaster
electric sander
electric saw
electric seal
electric shaver
electric shock
electric soldering iron
electric spark
electric storm
electric stove
electric stream
electric switch
electric telegraph
electric thermometer
electric toaster
electric torch
electric train
electric typewriter
electric unit
electric units
electric wave
electric welder
electric wind
electric wire
electric-arc furnace
electric-arc lamp
electric-discharge lamp
electric-discharge tube
electric-drive
electric-heat
electric-heated
electric-lighted
electric-powered
electrical capacity altimeter
electrical communication
electrical degree
electrical device
electrical engineer
electrical engineering
electrical governor
electrical part
electrical parts
electrical parts and devices
electrical scanning
electrical science
electrical storm
electrical transcription
electricity meter
electro-
electro-biology
electro-discharge machining
electro-magnet
electro-optical effect
electro-organic chemistry
electro-osmosis
electro-osmotic
electro-osmotically
electro-pneumatic organ
electro-ultrafiltration
electrocaloric effect
electrochemical series
electroconvulsive therapy
electrode conductance
electrode potential
electrode resistance
electrodeless discharge
electrodynamic speaker
electrohydraulic steering gear
electroless plating
electroluer switch
electrolytic capacitor
electrolytic cell
electrolytic conductor
electrolytic dissociation
electrolytic gas
electrolytic interrupter
electrolytic machining
electrolytic protection
electromagnetic field
electromagnetic induction
electromagnetic interaction
electron transfer
electron transport
electron tube
electron tubes
electron volt
electron-beam tube
electron-diffraction camera
electron-image projector
electron-image tube
electron-positron pair
electron-ray tube
electron-volt
electron-wave tube
electronic Bohr magneton
electronic air conditioner
electronic air filter
electronic altimeter
electronic battery
electronic brain
electronic carillon
electronic chronometer
electronic circuit
electronic clock
electronic communication
electronic communications
electronic comparator
electronic computer
electronic computers
electronic control
electronic cop
electronic counter
electronic data processing
electronic detector
electronic device
electronic devices
electronic drum
electronic effect
electronic emission
electronic engineering
electronic fix
electronic flash
electronic fuel gauge
electronic hearing aid
electronic heater
electronic heating
electronic limit gauge
electronic meter
electronic meters
electronic music
electronic navigation
electronic nutcracker
electronic organ
electronic oscillator
electronic pilot
electronic potentiometer
electronic precipitator
electronic recorder
electronic refrigeration
electronic refrigerator
electronic revolution
electronic scanning
electronic servo
electronic stenciling machine
electronic stethoscope
electronic surveillance
electronic switch
electronic switching
electronic testing
electronic testing equipment
electronic timer
electronic tube
electronic typewriter
electronic voltmeter
electronic-flash unit
electronic-mechanical control
electronics dictionary
electronics engineer
electronics king
electronics physicist
electropneumatic transducer
electroshock therapy
electrostatic field
electrostatic generator
electrostatic inductio
electrostatic induction
electrostatic lens
electrostatic machine
electrostatic precipitation
electrostatic precipitator
electrostatic printing
electrostatic speaker
electrostatic spraying system
electrostatic storage unit
electrostatic tube of force
electrostatic unit
electrotherapeutic treatment
electrotype press
electrovalent bond
elegant penmanship
elegant variation
elegant writer
elegiac couplet
elegiac distich
elegiac pentameter
elegiac poetry
elegiac stanza
elegiac verse
eleme figs
elemental area
elemental spirit
elementary algebra
elementary arithmetic
elementary dictionary
elementary education
elementary instruction
elementary mathematics
elementary metal
elementary metals
elementary particle
elementary process
elementary quantum of action
elementary school
elementary unit
elemi figs
eleolite syenite
elephant apple
elephant beetle
elephant bird
elephant driver
elephant fish
elephant grass
elephant gun
elephant seal
elephant shrew
elephant's trunk
elephant's trunk snake
elephant's-ear
elephant's-foot
elephant's-foots
elephant-ear fern
elephant-hide pahoehoe
eleuthera bark
eleuthero-
elevate your mood
elevated railroad
elevated railway
elevating rudder
elevation Astronomy
elevator angle
elevator boy
elevator car
elevator conductor
elevator conveyer
elevator dredge
elevator girl
elevator man
elevator operator
elevator shaft
elevator shaf
elevator signal
elevator signal
elevator starter
eleven o'clock
eleven-o'clock-lady
eleven-plus
eleven-year period
eleventh chord
eleventh hour
eleventh-hour
eleven-o'clock-lady
elf arrow
elf child
elf dance
elf kind
elf kindred
elf knight
elf owl
elf queen
elf-god
elf-lock
elf-shoot
elf-shot
elf-stricken
elf-struck
elf-taken
elfin-tree
eligible paper
elimination contest
elisor jury
elite corps
elite group
elite or long primer
elite troops
elixir of life
elixir vitae
elk bark
elk clover
elk nut
elk-grass
ell-broad
ell-long
ell-wand
ell-wide
ellipsoidal basalt
ellipsoidal lava
elliptic function
elliptic geometry
elliptic integral
elliptic spring
elliptic velocity
elliptic-lanceolate
elliptic-leaved
elliptical function
elliptical galaxy
elliptical light
elliptical polarization
elliptically polarized
elm balsam
elm bark
elm bark beetle
elm blight
elm calligrapha
elm leaf beetle
elm phloem necrosis
elm-leaved
elongato-conical
elongato-ovate
eloquent tongue
elude one
elution process
elytr-
em dash
em pica
em quad
em space
em-
emanate a smell
emanate from
embalm in the memory
embalmed corpse
embalming fluid
embark in
emergent evolution
emeritus status
emery belt
emery board
emery cloth
emery file
emery paper
emery powder
emery rock
emery surfacer
emery wheel
emeto-cathartic
eminence grise
eminent domain
emission current
emission spectrum
emission theory
emit a smell
emit a sound
emitter current
emitter junction capacitance
emitter resistance
emitter signal current
emitter signal voltage
emotional appeal
emotional capacity
emotional charge
emotional deadness
emotional disorder
emotional dissociation
emotional health
emotional instability
emotional instability reaction
emotional insulation
emotional life
emotional nuance
emotional numbness
emotional outburst
emotional paralysis
emotional release
emotional response
emotional shade
emotional shock
emotional support
emotional symptom
emotionally dead
emotionally numb
emotionally paralyzed
emotionally respond
emotionally unstable
emotionally unstable personality
emotive meaning
empathize with
emperor boa
emperor butterfly
emperor moth
emperor penguin
empire builder
empire building
empire cloth
empire day
empire-builder
empiric treatment
empirical existence
empirical fact
empirical formula
empirical politics
employ the time
employ time
employ your time in
employ yourself in
employ yourself upon
employer-owned
employment agency
employment agent
employment bureau
employment contract
employment exchange
empress cloth
empress of silence
empress tree
emptiness of mind
empty ceremony
empty claim
empty formality
empty gesture
empty hands
empty morph
empty name
empty of
empty out
empty pocket
empty purse
empty sound
empty space
empty stomach
en grande tenue
en grande toilette
en loge
en masse
en papillote
en passant
en pension
en plein
en plein air
en plein jour
en plus
en prise
en quad
en rapport
en regle
en revanche
en route
en route to
en soleil
en space
en suite
en tapinois
en-
enabling act
enact laws
enacting clause
enamel bud
enamel cell
enamel kiln
enamored of
enb-
encased heart
encaustic cerography
encaustic painting
encephal-
encephalitis lethargica
encephalo-
enchanter's nightshade
encircling movement
enclosed order
enclosed space
enclosure act
enclosure wall
encompass with shadow
encounter danger
encounter group
encounter therapy
encroach upon
encyclical letter
encyclopedic knowledge
end around
end artery
end bell
end bulb
end burner
end for end
end game
end in smoke
end in view
end line
end man
end matter
end mill
end of burning
end of debate
end of life
end of steel
end of the earth
end of the line
end of your rope
end of your tether
end off
end on
end organ
end paper
end pin
end plate
end play
end point
end product
end result
end rhyme
end run
end sheet
end stop
end stopping
end stress
end table
end the life of
end to end
end up
end up in smoke
end use
end wrench
end your days
end your life
endowed with
endowed with beauty
endowed with life
endowment assurance
endowment insurance
endurance limit
endurance race
endurance ratio
endurance strength
endure forever
endwise coil
enemy aircraft
enemy alien
enemy atrocities
enemy line
enemy lines
energy band
energy charge
energy component
energy level
energy metabolism
energy meter
energy state
energy surface density
energy voltage
energy-consuming
energy-producing
enfant perdu
enfant terrible
enfants perdu
enfants terribles
enforce economies
enforce upon
enforce your claim
enforced respite
engage attention
engage in
engage in a conversation
engage in battle
engage in hostilities
engage in marriage
engage in personalities
engage the attention
engage the mind
engage the thoughts
engage with
engage yourself
engage yourself with
enlisted man
enlisted woman
enmeshed in
ennae-eteric
enol form
enol-keto isomerism
enough and then some
enough and to spare
enough in all conscience
enough said
enough to drive you mad
enough to get by on
enough to make a preacher swear
enough to provoke a saint
enough to wake the dead
enp-
enroll a jury
ens realissimum
ensemble music
ensemble singing
enshrine in the memory
ensign armorial
ensign fly
ensign staff
ensign-bearer
ensue from
ent-
entangled in
entente cordiale
enter a protest
enter into
enter into competition with
enter into detail
enter into possession
enter into the feelings of
enter into the ideas of
enter into the spirit of
enter into your view
enter into your views
enter on
enter the arena
enter the arena with
enter the lists
enter the ring with
enter upon
enter with a will
enter your mind
entered hound
entered through another gate
enteric fever
entering wedge
entero-
entertain a belief
entertain a dislike to
entertain a feeling
entertain a theory
entertain an opinion
entertain doubts
entertain guests
entertain ideas
entertain respect for
entertain suspicions
entertain the hope
entertain the idea of
entertain the inner man
entertain thoughts of
entertainment industry
enthrone your own will
enthusiastic about
entire function
entire horse
entire performance
entire satisfaction
entire-leaved
entire-wheat
entitled to
ento-
ento-ectad
entom-
entomo-
entrail pahoehoe
entrance certificate
entrance cone
entrance examination
entrance fee
entrance hall
entrance money
entrance pallet
entrance pupil
entrance-denying
entre deux ages
entre nous
entranching tool
entrust with information
entry card
epic poetry
epic simile
epic theater
epic verse
epicanthic fold
epicyclic train
epicycloidal gear
epicycloidal wheel
epidemic cholera
epidemic disease
epidemic encephalitis
epidemic meningitis
epidemic parotitis
epidemic pleurodynia
epiderm-
epididymo-orchitis
epidote group
epidural anaesthesia
epiglottis-hyoidean
epilepsia gravior
epilepsia major
epilepsia minor
epilepsia mitior
epilepsia nutans
epilepsia tarda
epilept-
epiphysis cerebri
episcopal ring
episcopal sandal
episcopal vestments
epistemological idealism
epistemological logic
epistemological realism
epistemological realist
epistle side
epistolary communication
epistolary intercourse
epistolary novel
epitaxial transistor
epitheli-
epithelial pearl
epizootic aphtha
epoch-forming
epoch-making
epoch-marking
epoxy resin
epsilon-delta
epsilon-neighborhood
epsom salt
epsom salts
equal opportunity employer
equal share
equal sign
equal temperament
equal to
equal-angled
equal-aqual
equal-area
equal-area projection
equal-armed
equal-balanced
equal-blooded
equal-eyed
equal-glumed millet
equal-handed
equal-headed
equal-limbed
equal-poised
equal-sided
equal-souled
equal-weighted
equalizing file
equalization fee
equalization fund
equalization period
equalizer brake
equalizer set
equalizing bar
equalizing dynamo
equalizing file
equalizing gear
equalizing pipe
equalizing pulse
equally pinnate
equals sign
equation clock
equation division
equation movement
equation of state
equation of time
equation price
equation solver
equator coordinates
equatorial telescope
equatorial tide
equatorial trough
equestrian director
equi-
equi-gram-molar
equiangular hyperbola
equilateral hyperbola
equilateral triangle
equilibrium isomerism
equilibrium pressure
equilibrium sense
equilibrium valve
equine distemper
equine encephalomyelitis
equine infectious anaemia
equine infectious anemia
equinoctial circle
equinoctial colure
equinoctial hour
equinoctial line
equinoctial point
equinoctial rains
equinoctial storm
equinoctial year
equipartition of energy
equipment bond
equipment note
equipment trust
equipment trust bond
equipment trust certificate
eipoise rudder
equitable estate
equitable interest
equitable jurisdiction
equitime point
equity capital
equity court
equity of redemption
equity security
equity side
equivalence class
equivalence reaction
equivalence relation
equivalent algebras
equivalent circuit
equivalent focal length
equivalent monoplane
equivalent odds
equivalent weight
era of prosperity
erase all doubt
erase from the memory
erasing shield
erect shrew
ere long
ere then
erecting prism
erection mark
erector spinae
ergo proper hoc
ergo propter hoc
erect sum
erologic school
erl-king
erlenmeyer flask
ermine moth
ern-bleater
ern-fern
erosion cycle
erosion surface
erotic art
erotic literature
erotic novel
erotic poetry
errand boy
errand girl
errare humanum est
erring sister
error corrector
error detector
error in judgment
error in speech
error of closure
error signals
error-blasted
error-darkened
error-prone
error-proof
error-stricken
error-tainted
error-teaching
eruptive fever
erythema induratum
erythema nodosum
erythr-
erythredema polyneuropathy
erythro-
erythroblastosis fetalis
erythroblastosis neonatorum
erthrol tetranitrate
es-
escalator clause
escalator plan
escalier derobe
escallop-shell
escape artist
escape attention
escape by the skin of your teeth
escape clause
escape cock
escape earth
escape hatch
escape into fantasy
escape mechanism
escape notice
escape one
escape pipe
escape prison
escape road
escape route
escape shaft
escape the memory
escape valve
escape velocity
escape wheel
escape with a whole skin
escape without penalty
escape your lips
escapement error
escaping tendency
escort carrier
escort fighter
escort vessel
escort wagon
escutcheon of pretence
escutcheon plate
esemplastic imagination
esemplastic power
eskimo dog
eso-
esophagal ulcer
esophageal speech
esophageo-cutaneous
esophago-enterostomy
esoteric meaning
esoteric reality
esparto grass
espionage agent
espouse a belief
espouse a theory
espouse nonviolence
espouse the cause of
esprit d'escalier
esprit de corps
esprit fort
esquire based
esquisse-esquisse
essay-writing
esse est percipi
esse quam videri
essence d'orient
essence of bergamot
essence of life
essence of mirbane
essence of myrbane
essential amino acid
essential epilepsy
essential facts
essential hypertension
essential matter
essential nature
essential oil
essoin day
essoin roll
est modus in rebus
establish connection
establish residence
established church
established fact
established way
establishing shot
estate agent
estate and effects
estate at sufferance
estate at will
estate car
estate duty
estate for life
estate for years
estate in expectancy
estate in fee
estate in possession
estate in tail
estate manager
estate of freehold
estate of the realm
estate pour autre vie
estate rubber
estate tail
estate tax
estate waggon
estate wagon
ester gum
ester value
esthesio-
estivo-autumnal
esto perpetua
estrangon oil
estral cycle
estrangelo alphabet
estrous cycle
estuarine area
et al
et alii
et cetera
et hoc genus omne
et id genus omne
et seq
et seqq
et sequens
et sic de similibus
et sqq
et tu
etain blue
etalon post
etaoin shrdlu
etch indelibly in the mind
etched glass
etching ball
etching ground
etching needle
etching point
etching silk
etching stitch
etching varnish
eternal damnation
eternal home
eternal life
eternal object
eternal re-creation
eternal recurrence
eternal rest
eternal return
eternal sleep
eternal triangle
eternal universal
eternal verities
eternal youth
eternally the same
eternity ring
eth-
ethane dinitrile
ethanedioic acid
ether drift
ether extract
ether space
ether value
etheric body
etheric double
etheric self
etherin theory
ethical code
ethical drug
ethical formalism
ethical hedonism
ethical nihilism
ethical nihilist
ethical philosophy
ethical relativism
ethical relativist
ethical self
ethical system
ethico-
ethiops martial
ethiops mineral
ethmo-
ethmoid bone
ethnic community
ethnic group
ethnic joke
ethnic music
ethnic vote
ethno-
ethyl acetate
ethyl acetoacetate
ethyl acetone
ethyl alcohol
ethyl aminobenzoate
ethyl butanoate
ethyl butyrate
ethyl caproate
ethyl capronate
ethyl carbamate
ethyl cellulose
ethyl chloride
ethyl ester
ethyl ether
ethyl gas
ethyl group
ethyl hexanoate
ethyl hexoate
ethyl hydride
ethyl malonate
ethyl mercaptan
ethyl methyl ketone
ethyl nitrate
ethyl nitrite
ethyl nitrite spirit
ethyl oenanthate
ethyl oxide
ethyl radical
ethyl sulfide
ethyl urethan
ethyl urethane
ethylene alcohol
ethylene bromide
ethylene chloride
ethylene dibromide
ethylene dichloride
ethylene glycol
ethylene group
ethylene oxide
ethylene radical
ethylene series
ethylidene diethyl ether
ethynyl group
ethynyl radical
eton collar
eton jacket
etymological dictionary
eu-
eu-form
eu-type
eucalyptene hydrochloride
eucalyptus green
eucalyptus gum
eucalyptus oil
eucaryotic cell
eudemis moth
eugenic acid
euglenoid movement
eunuch flute
euonymus scale
eupatorium purple
eupeptic mien
euphoric mien
eur-
eureka red
euro-boreal
europaeo-
european plan
european red mite
eur-
eustachian tube
evacuation ambulance
evacuation hospital
evacuation plane
evacuation station
evade responsibility
evade the issue
evaluative criticism
evans-root
evaporated milk
evaporation gauge
evaporation pan
evaporation tank
evasion of responsibility
evasive action
evasive reasoning
evasive reply
eve-churr
eve-jar
eve-star
even break
even chance
even lot
even money
even now
even number
even odds
even off
even out
even pace
even permutation
even so
even stephen
even temper
even tenor
even the score
even trade
even up
even with
even-
even-bell system
even-christian
even-edged
even-handed
even-handedly
even-handedness
even-minded
even-mindedness
even-money
even-numbered
even-old
even-paged
even-pleached
even-set
even-spun
even-star
even-steven
even-tempered
even-tenored
even-toed
even-toothed
even-up
even-wayed
even'er-up
evening bag
evening campion
evening class
evening damp
evening devotions
evening dress
evening dun
evening emerald
evening flower
evening gown
evening grosbeak
evening lychnis
evening market
evening mist
evening of the score
evening of your days
evening prayer
evening prayers
evening primrose
evening rose
evening school
evening services
evening shirt
evening star
evening stock
evening trumpet flower
evening up
evening watch
evening’s calm and holy hour
evening’s close
evening-dressed
evening-glory
evening-primrose family
evening-snow
event horizon
events-per-unit-time meter
ever and again
ever and always
ever and anon
ever less
ever more
ever since
ever so
ever so little
ever so many
ever so much
ever the same
ever-abiding
ever-active
ever-admiring
ever-angry
ever-bearing
ever-being
ever-beloved
ever-blooming
ever-burning
ever-celebrated
ever-changeful
ever-changing
ever-circling
ever-conquering
ever-constant
ever-craving
ever-dear
ever-deepening
ever-dripping
ever-drizzling
ever-dropping
ever-durable
ever-during
ever-during dark
ever-duringness
ever-dying
ever-echoing
ever-endingly
ever-esteemed
ever-expanding
ever-faithful
ever-fast
ever-fertile
ever-fresh
ever-friendly
ever-glooming
ever-goading
ever-going
ever-growing
ever-happy
ever-honored
ever-increasing
ever-living
ever-loving
ever-mingling
ever-moving
ever-new
ever-noble
ever-normal granary
ever-present
ever-prompt
ever-ready
ever-recurrent
ever-recurring
ever-renewing
ever-smiling
ever-strong
ever-thrilling
ever-varying
ever-victorious
ever-wearing
ever-white
ever-widening
ever-willing
ever-wise
ever-young
everglade kite
everglade palm
evergreen beech
evergreen bittersweet
evergreen blackberry
evergreen blueberry
evergreen cherry
evergreen clematis
evergreen elm
evergreen grape
evergreen grass
evergreen magnolia
evergreen millet
evergreen oak
evergreen privet
evergreen snakeroot
evergreen thorn
evergreen trumpet flower
evergreen winterberry
evergreen wood fern
everlasting fire
everlasting flower
everlasting moment
everlasting pea
everlasting thorn
everlasting torment
every bit
every bit a
every day
every hour
every inch
every inch a king
every man Jack
every man jack
every moment
every mother's son
every now and then
every once in a while
every one
every one in his turn
every other
every so often
every which way
every whit
every-way
everybody and his uncle
everybody's fool
everything being equal
everything but the kitchen sink
everything that is
everywhere-dense
evet e
eviction clause
evidence in chief
evidence-proof
evil child
evil courses
evil day
evil dispensation
evil disposition
evil eye
evil fortune
evil genius
evil hour
evil humor
evil intent
evil man
evil nature
evil person
evil reputation
evil repute
evil speaking
evil spirit
evil spirits
evil star
evil woman
evil-affected
evil-affectedness
evil-boding
evil-complexioned
evil-disposed
evil-doing
evil-eyed
evil-faced
evil-fashioned
evil-favored
evil-favoredly
evil-favoredness
evil-favoured
evil-featured
evil-fortuned
evil-gotten
evil-headed
evil-hued
evil-humored
evil-impregnated
evil-looking
evil-loved
evil-mannered
evil-minded
evil-mindedly
evil-mindedness
evil-mouthed
evil-ordered
evil-pieceed
evil-qualified
evil-savored
evil-shaped
evil-shapen
evil-smelling
evil-sounding
evil-sown
evil-spun
evil-starred
evil-taught
evil-tempered
evil-thewed
evil-thoughted
evil-tongued
evil-weaponed
evil-willed
evil-won
evoke a response
evoke from the dead
evoked potential
evolutionary change
evolve into
ewe bramble
ewe lamb
ewe teg
ewe-daisy
ewe-gowan
ewe-neck
ewe-necked
ex adverso
ex aequo et bono
ex animo
ex ante
ex cathedra
ex coupon
ex div
ex div<
ex dividend
ex facie
ex facto
ex gratia
ex hypothesi
ex int
ex lege
ex lib
ex libris
ex maleficio
ex more
ex natura rei
ex new
ex nihilo nihil fit
ex off
ex officio
ex opere operato
ex parte
ex parte evidence
ex pede Herculem
ex post
ex post facto
ex post facto examination
ex post facto law
ex pro brate
ex professo
ex promission
ex propriate
ex rights
ex ship tackles
ex silentio
ex store
ex voto
ex voto offering
ex warrants
ex works
ex-
ex-army
ex-cathedra
ex-consul
ex-convict
ex-czar
ex-directory
ex-emperor
ex-employee
ex-enemy
ex-governor
ex-holder
ex-invalid
ex-judge
ex-kaiser
ex-king
ex-libres
ex-librism
ex-librist
ex-mayor
ex-minister
ex-official
ex-officio
ex-pier
ex-praetor
ex-president
ex-quay
ex-rights
ex-service
ex-serviceman
ex-servicemen
ex-ship
ex-voto
exa-
exact counterpart
exact description
exact differential
exact from
exact likeness
exact mates
exact measure
exact science
exactly alike
exaggerate your own merits
exaggerated lengths
exaggerated respect
exalt to the skies
examination by ear
examination of conscience
examination school
examine by ear
examine cursorily
examine point by point
examine side by side
examine the books
examine thoroughly
examine your conscience
examine-in-chief
examining post
examining room
examining side by side
excel at
excel in
excellent accommodations
excellent citizen
excellent companion
excellent manners
excelsior knife
except for
except that
exception taken of
excess demand
excess fare
excess insurance
excess profits tax
excess reinsurance
excess sound pressure
excess supply
excess-loss
excess-profits tax
excessive in your praise
excessive interest
excessive irritability
excessive praise
exchange blows
exchange broker
exchange cap
exchange colors
exchange editor
exchange equalization fund
exchange fisticuffs
exchange floor
exchange force
exchange greetings
exchange letters
exchange observations
exchange of blows
exchange of views
exchange opinions
exchange professor
exchange rate
exchange reaction
exchange shots
exchange stabilization fund
exchange student
exchange ticket
exchange transfusion
exchange views
exchangeable base
exchequer bill
exchequer bond
exchequer-chamber
excise tax
excite easily
excite interest
excite notice
excite pity
excite your interest
excited atom
excited imagination
excited state
excited-field speaker
exciter lamp
exciting current
excito-motory
exclaim against
exclamation mark
exclamation point
exclamatory adjective
exclamatory noun
exclude from
exclusion clause
exclusion principle
exclusive disjunction
exclusive jurisdiction
exclusive of
exclusive or
exclusive possession
exclusive representation
excruciating pain
excursion steamer
excursion ticket
excuse-me
excused absence
excusing the liberty
exdebito justitiae
exdebito natural
execute a
execute a maneuver
execute a will
execute by firing squad
executive agreement
executive arm
executive branch
executive committee
executive council
executive director
executive editor
executive function
executive hierarchy
executive office
executive officer
executive order
executive plane
executive privilege
executive role
executive secretary
executive session
executive veto
executor dative
exegi monumentum aere perennius
exemplary citizen
exemplary damages
exempli causa
exempli gratia
exempt carrier
exempt from
exemption from hostilities
exercise bone
exercise book
exercise care
exercise device
exercise discrimination
exercise influence
exercise judgment
exercise of memory
exercise of the intellect
exercise self-control
exercise self-restraint
exercise skill
exercise tact
exercise the duties of
exercise the elbow
exercise the functions of
exercise the judgment
exercise the mind
exercise the office of
exercise the right of angary
exercise your option
exert influence
exert pressure
exert strength
exert yourself
exeunt omnes
exh-
exhaust box
exhaust cowl
exhaust draft
exhaust every move
exhaust fan
exhaust gas
exhaust head
exhaust horn
exhaust jacket
exhaust lap
exhaust pipe
exhaust port
exhaust price
exhaust pump
exhaust silencer
exhaust steam
exhaust valve
exhaust velocity
exhaust-suction stroke
exhaustive study
exhibit the form of
exhibit your wares
exhibition game fowl
exhibition hall
exhibition room
exigi facias
exile tree
exist in
existential operator
existential philosopher
existential philosophy
existential psychology
existential quantifier
existential theology
existential vacuum
existential woe
existing conditions
existing situation
exit card
exit pallet
exit pupil
exo-
exo-condensation
exocentric compound
exocrine gland
exophthalmic goiter
exophthalmic goitre
exorbitant demand
exorbitant interest
exorbitant price
exotic dancer
expand your consciousness
expanded metal
expanding bullet
expanding economy
expanding universe
expanding universe theory
expansion ammeter
expansion attic
expansion bend
expansion bit
expansion bolt
expansion cam
expansion chamber
expansion coupling
expansion curve
expansion engine
expansion fit
expansion gear
expansion joint
expansion pipe
expansion plate
expansion pulley
expansion ring
expansion sleeve
expansion slide
expansion trunk
expansion valve
expansion wave
expansion wheel
expansive bit
expansive classification
expect it of
expect to
expectant treatment
expectant waiting
expectation neurosis
expectation of life
expected of
expected value
expedite your affair
expend your anger on
expense account
experience imaginatively
experience meeting
experience rate
experience religion
experience table
experience vicariously
experienced hand
experiential philosophy
experiment station
experiment upon
experimental animal
experimental design
experimental engineer
experimental engineering
experimental film
experimental logic
experimental medicine
experimental method
experimental proof
experimental psychology
experimental sample
experimental science
experimental scientist
experimental theater
experimental verification
experimenter effect
expert at
expert consultant
expert in
expert in decor
expert rifleman
expert witness
experto credite
expiatory offering
expiatory sacrifice
explain away
explain yourself
explanato-
explanatory remark
explementary angle
explication de texte
explications de texte
explicit function
exploded view
exploding star
express car
oxpress delivery
oxpress general agreement
express in words
express intention
express letter
express prejudice
express regret
express rifle
express sympathy for
express the belief
express train
express wagon
express your appreciation
expressed almond oil
expressed desire
expression mark
expression of ideas
expressionistic abstraction
expressionistic abstractionist
expulsion fuse
expunge all doubt
exquisite manners
exsanguination transfusion
exsanguino transfusion
extend an invitation
extend credit
extend out
extend over
extend the right of fellowship
extend the right of friendship
extend throughout
extend to
extend to the side
extend to the sides
extended bond
extended complex plane
extended coverage
extended family
extended order
extended play
extended real number system
extended term insurance
extended-play
extending everywhere
extension bit
extension bolt
extension courses
extension field
extension ladder
extension lathe
extension of time
extension phone
extension rule
extension spring
extension table
extension-gap lathe
extensive knowledge
extensive study
extensor thrust
extenuating circumstances
exter-marriage
exterior angle
exterior ballistics
exterior paint
exteriorized protoplasm
exterminate with
external account
external acoustic meatus
external affairs
external angle
external appearance
external auditory meatus
external brake
external capsule
external carotid
external ear
external evidence
external frustration
external hemorrhoid
external iliac artery
external jugular vein
external loan
external relation
external respiration
external secretion
external-combustion
external-combustion engine
externally-quenched counter
extinction coefficient
extinction meter
extortionate demand
extortionate price
extra added attraction
extra cover
extra cover point
extract wool
extracted material
extracted matter
extraction of roots
extraction thimble
extraction turbine
extraction wax
extractor fan
extracurricular relations
extracurricular sex
extragalactic nebula
extrajudicial oath
extramarital relations
extramarital sex
extranuclear electrons
extraordinarily like
extraordinary jubilee
extraordinary ray
extraordinary wave
extraordinary worth
extrapolation ionization chamber
extrasensory perception
extraterrestrial visitor
extratropical cyclone
extraterine pregnancy
extreme clipper
extreme cold
extreme heat
extreme height
extreme innerness
extreme left
extreme left wing
extreme left-wing
extreme left-winger
extreme limit
extreme right
extreme right wing
extreme right-winger
extreme rightism
extreme temperatures
extreme tension
extreme unction
extremely high frequency
extrinsic evidence
extrinsic factor
extro-
extruded plastic
extruding press
extrusive rock
exudation pressure
exudative inflammation
exude cheerfulness
exult in
ey st
eye agate
eye appeal
eye askance
eye bank
eye bath
eye bone
eye cap
eye catcher
eye color
eye defect
eye dialect
eye disease
eye doctor
eye dotter
eye draft
eye drops
eye fold
eye for an eye, an
eye for eye
eye ground
eye hungrily
eye lens
eye liner
eye memory
eye nut
eye of a needle
eye of day
eye of the mind
eye opener
eye patch
eye point
eye rhyme
eye shadow
eye socket
eye speculum
eye splice
eye stub
eye to
eye tube
eye wattle
eye worm
eye-appealing
eye-ball
eye-beam
eye-bedewng
eye-beguiling
eye-bewildering
eye-bewitching
eye-blinking
eye-blurred
eye-bold
eye-bolt
eye-bree
eye-brightening
eye-casting
eye-catcher
eye-catching
eye-charmed
eye-checked
eye-conscious
eye-dazzling
eye-delighting
eye-devouring
eye-distracting
eye-draught
eye-ear plane
eye-ear-nose-throat specialist
eye-earnestly
eye-filling
eye-glass
eye-glutting
eye-lash
eye-lotion
eye-minded
eye-mindedness
eye-offending
eye-opener
eye-opening
eye-overflowing
eye-peep
eye-pit
eye-pleasing
eye-popper
eye-popping
eye-rejoicing
eye-rolling
eye-searing
eye-seen
eye-servant
eye-server
eye-service
eye-shot
eye-sick
eye-splice
eye-spotted
eye-starting
eye-string
eye-tooth
eye-trying
eye-watering
eye-weariness
eye-wink
eye-winking
eye-witness
eyeball inspection
eyeball to eyeball
eyeball-to-eyeball
eyeball-to-eyeball encounter
eyebrow pencil
eyeglass cloth
eyelet hole
eyelet punch
eyelet-hole
eyepiece micrometer
eyes bigger than the stomach
eyes front
eyes left
eyes only
eyes right
eyes upon
f clef
f layer
f number
f region
f value
f-hole
f-number
f-stop
f1 layer
f2 layer
fa la
fa-la
fable book
fable forger
fable play
fable teller
fable-framing
fabric spring
fabric tire
fabrication tax
fabulous formless darkness
face about
face ague
face angle
face bath
face bone
face bow
face brick
face card
face cards
face chuck
face cleat
face cloth
face cog
face cord
face cover
face cream
face down
face dresser
face dressing
face enamel
face gear
face guard
face hammer
face joint
face lathe
face lifting
face mask
face massage
face milling
face mite
face mold
face molder
face of brass
face out
face pack
face paint
face painter
face painting
face par
face pit
face powder
face presentation
face rouge
face side
face spanner
face specialist
face sponge
face stone
face string
face that would stop a clock
face the music
face to face
face to face with
face to the right-about
face toward
face towel
face up
face up to
face upon
face urn
face validity
face value
face wall
face wheel
face with
face-about
face-ache
face-arbor
face-bedded
face-centered
face-centred
face-harden
face-lift
face-lifting
face-off
face-on
face-saving
face-to-face
faced-lined
faceplate coupling
faceplate jaw
facia board
facial angle
facial appearance
facial expression
facial index
facial massage
facial nerve
facial neuralgia
facial tissue
facies Hippocratica
facies-suite
facile princeps
facilis descensus Averno
facility in writing
facility of speech
facing death
facing distance
facing hammer
facing head
facing lathe
facing sand
facing slip
facing tool
facing-point lock
facing-point switch
facsimile broadcasting
facsimile telegraph
fact distribution
fact of experience
fact of life
fact-finding
factor analysis
factor cost
factor group
factor of adhesion
factor of production
factor of safety
factor theorem
factorial stop system
factory belt
factory burden
factory committee
factory cost
factory district
factory farm
factory ledger
factory lumber
factory manager
factory ship
factory system
factory tar
factory town
factory worker
factory-new
facts and figures
facts of life
factual base
factual information
facultative referendum
faculty adviser
faculty members
faculty psychology
faculty theory
fad word
fade away
fade away from the memory
fade in
fade into the distance
fade like a dream
fade like a shadow
fade out
fade-in
fade-out
fade-proof
faded rose
faery-fair
faery-frail
fag end
fag out
fag-end
fagged out
faggot-vote
fagot cinnamon
fagot iron
fagot vote
fagot worm
fail ignominiously
fail in
fail in health
fail in your duty
fail miserably
fail of
fail of success
fail of your ambitions
fail of your hopes
fail safe
fail someone
fail spot
fail to appear
fail to pull out
fail to remember
fail-safe
failed expectation
failing student
failure of memory
failure of nerve
failure to pay
fain of
fain to
faint heart
faint hope
faint likelihood
faint praise
faint resemblance
faint sound
faint-blue
faint-gleaming
faint-glimmering
faint-green
faint-heard
faint-heart
faint-hued
faint-lined
faint-lipped
faint-rulled
faint-run
faint-sounding
faint-spoken
faint-voiced
faint-warbled
fainting fit
faintly like
faintness of sound
fair and pleasant
fair and square
fair as is the rose in May
fair ball
fair catch
fair copy
fair coquette of Heaven
fair day
fair employment
fair expectation
fair field
fair game
fair green
fair hand
fair housing
fair isle
fair lead
fair list
fair maid
fair name
fair or foul
fair play
fair prospect
fair sex
fair shake
fair stitching
fair to middling
fair trade
fair trader
fair weather
fair whites
fair wind
fair words
fair-born
fair-breasted
fair-browed
fair-cheeked
fair-colored
fair-complexioned
fair-conditioned
fair-copy
fair-days
fair-eyed
fair-faced
fair-favored
fair-featured
fair-fortunited
fair-fronted
fair-haired
fair-haired boy
fair-horned
fair-hued
fair-lead
fair-leader
fair-leading
fair-maid
fair-maned
fair-minded
fair-mindedness
fair-natured
fair-reputed
fair-sized
fair-skinned
fair-sounding
fair-spoken
fair-spokenness
fair-stitch
fair-stitcher
fair-tongued
fair-trade
fair-trade agreement
fairy lore
fairy man
fairy martin
fairy money
fairy pageant
fairy penguin
fairy play
fairy pool
fairy primrose
fairy prion
fairy queen
fairy ring
fairy rose
fairy shrimp
fairy smoke
fairy song
fairy stone
fairy story
fairy swallow
fairy tale
fairy tern
fairy tree
fairy wallflower
fairy wand
fairy water lily
fairy woman
fairy-born
fairy-ring
fairy-ring mushroom
fairy-ring spot
fairy-tale
fait accompli
faites vos jeux
faith cure
faith curer
faith healer
faith healing
faith of our fathers
faith-breaking
faith-confirming
faith-curist
faith-infringing
faith-keeping
faithful copy
faithful friend
faithful love
faithful servant
faithful translation
faits accomplis
fake book
fake buyer
fake out
fake up
faker-out
faking box
fal la
fal-lal
fal-lalery
fal-lalish
fal-lalishly
falcon-beaked
falcon-eyed
falcon-gentle
fald silver
fall a cropper
fall a victim to
fall aboard
fall about
fall across
fall afoul of
fall again into
fall all over
fall all over yourself
fall among
fall army worm
fall asleep
fall aster
fall astern
fall at the feet of
fall at your feet
fall away
fall back
fall back on
fall back to
fall back to prepared positions
fall back upon
fall behind
fall behindhand
fall between two stools
fall block
fall by the wayside
fall chronometer
fall dandelion
fall dead
fall down
fall down before
fall down dead
fall down on the job
fall down on your knees
fall duck
fall due
fall flat
fall flat as a pancake
fall flat on your ass
fall flat on your face
fall flower
fall for
fall foul
fall foul of
fall from grace
fall from the lips
fall from the mouth
fall from your high estate
fall front
fall grape
fall guy
fall head and ears in love
fall head over heels in love
fall headlong
fall herring
fall in
fall in a faint
fall in line
fall in love
fall in price
fall in the way of
fall in together
fall in with
fall into
fall into a brown study
fall into a habit
fall into decay
fall into despair
fall into disrepute
fall into disuse
fall into error
fall into line
fall into oblivion
fall into order
fall into place
fall into rank
fall into raptures
fall into series
fall into your hands
fall lettuce
fall line
fall meadow rue
fall of Adam
fall of day
fall of man
fall of the cards
fall of the curtain
fall of the dice
fall of the leaf
fall of the year
fall off
fall on
fall on deaf ears
fall on evil days
fall on the ear
fall on your ass
fall on your face
fall on your feet
fall on your knees
fall on your knees before
fall on your knees to
fall out
fall over
fall phonometer
fall poison
fall prostrate
fall rope
fall rose
fall senseless
fall short
fall shy
fall silent
fall snipe
fall star grass
fall stillborn
fall through
fall to
fall to a low ebb
fall to dust
fall to loggerheads
fall to one
fall to pieces
fall to the ground
fall to work
fall to your lot
fall to your share
fall under
fall under your notice
fall upon
fall webworm
fall wheat
fall wind
fall'n into the sere
fall-board
fall-down
fall-in
fall-off
fall-out
fall-plow
fall-sow
fall-trap
fallen angel
fallen arch
fallen countenance
fallen from grace
fallen humanity
fallen nature
fallen state
fallen woman
falling action
falling back
falling band
falling barometer
falling diphthong
falling door
falling down and worshiping
falling glass
falling home
falling leaf
falling loosely
falling off
falling rhythm
falling short
falling shy
falling sickness
falling star
falling terminal
falling-away
falling-ball clock
falling-off
falling-out
falling-outs
fallings-out
fallopian tube
fallout shelter
false hellebore
false horizon
false image
false imprisonment
false ipecac
false keel
false labor
false light
false lily of the valley
false loosestrife
false map turtle
false memory
false mildew
false modesty
false money
false move
false music
false name
false nettle
false oat
false pains
false piety
false pile
false position
false pretences
false pretense
false pretenses
false pretension
false proscenium
false rafter
false reasoning
false redtop
false relation
false representation
false rib
false ribs
false rice
false ridgepole
false saffron
false shade line
false show
false step
false sunflower
false swearing
false teacher
false teeth
false title
false topaz
false vampire
false vocal cord
false vocal cords
false wheat
false witness
false-bedded
false-boding
false-bottomed
false-card
false-dealing
false-derived
false-eyed
false-face
false-face society
false-faced
false-fingered
false-fronted
false-gotten
false-heart
false-hearted
false-heartedly
false-heartedness
false-mermaid family
false-nerved
false-packed
false-plighted
false-principled
false-purchased
false-spoken
false-sworn
false-tongued
false-visored
false-written
falsehood-free
falsify accounts
famble-crop
fame-achieving
fame-blazed
fame-crowned
fame-ennobled
fame-giving
fame-loving
fame-preserving
fame-seeking
fame-sung
fame-thirsting
fame-thirsty
fame-worthy
fan vault
fan vaulting
fan wheel
fan window
fan worm
fan-back chair
fan-bearing
fan-crested
fan-fashion
fan-jet
fan-jet engine
fan-leaved
fan-light
fan-nerved
fan-pleated
fan-shape
fan-shaped
fan-tail
fan-tailed
fan-tailed darter
fan-tan
fan-veined
fan-wing fly
fancied up
fancy Dan
fancy ball
fancy clouds where no clouds be
fancy dive
fancy diver
fancy diving
fancy dog
fancy dress
fancy dress ball
fancy geranium
fancy goods
fancy house
fancy lady
fancy man
fancy price
fancy talk
fancy that
fancy trimmer
fancy up
fancy woman
fancy work
fancy-baffled
fancy-blest
fancy-born
far other
far out
far past
far piece
far point
far seer
far traveler
far-about
far-advanced
far-aloft
far-away
far-back
far-between
far-borne
far-branching
far-called
far-come
far-cost
far-darting
far-discovered
far-distant
far-down
far-downer
far-driven
far-eastern
far-embracing
far-extended
far-extending
far-famed
far-fet
far-fetch
far-fetched
far-flashing
far-flown
far-flung
far-flying
far-foamed
far-forth
far-gleaming
far-going
far-gone
far-heard
far-horizoned
far-looking
far-looming
far-northern
far-off
far-offness
farm elevator
farm hand
farm interests
farm laborer
farm level
farm loan association
farm loan bank
farm loan bond
farm machine
farm machinery
farm management
farm manager
farm out
farm pond
farm team
farm tractor
farm-bred
farm-engro
farm-house
farm-stead
farm-yard
farmer cheese
farmer drill
farmer in the dell
farmer's lung
farmer-general
farmer-generalship
farmers cooperative
farmers-general
farmhouse loaf
faro bank
faro banker
fart around
farthest bound
farthest off
farthest out
farthest outpost
farthing dip
farthingale chair
farting around
fascia board
fascinated attention
fascine choker
fashion book
fashion designer
fashion gray
fashion house
fashion piece
fashion plate
fashion plate stem
fashion show
fashion writer
fashion-fancying
fashion-fettered
fashion-following
fashion-led
fashion-monger
fashion-setting
fashionable society
fashioning needle
fast and loose
fast asleep
fast boat
fast break
fast by
fast day
fast deal
fast dye
fast food
fast freight line
fast friend
fast friendship
fast groove
fast motion
fast neutron
fast one
fast pace
fast pile
fast rate
fast reactor
fast spiral
fast talk
fast telegram
fast time
fast worker
fast-anchored
fast-bound
fast-breaking
fast-breeder reactor
fast-cleaving
fast-darkening
fast-dye
fast-dyed
fast-fading
fast-falling
fast-feeding
fast-fettered
fast-fleeting
fast-flowing
fast-food chain
fast-footed
fast-gathering
fast-grounded
fast-growing
fast-handed
fast-joint hinge
fast-knit
fast-mass
fast-moving
fast-plighted
fast-rooted
fast-rootedness
fast-running
fast-sailing
fast-settled
fast-stepping
fast-talk
fast-tied
fasten a quarrel on
fasten down
fasten itself on the mind
fasten on
fasten onto
fasten the eyes upon
fasten up
fasten upon
fasten yourself upon
fastening-penny
fastens-een
faster than sound
fastidious person
fat acid
fat as a fool
fat as a hog
fat as a pig
fat as a pork hog
fat as a porpoise
fat as a quail
fat as bacon
fat as brawn
fat as butter
fat back
fat box
fat cat
fat cell
fat chance
fat corpuscle
fat depot
fat gland
fat granule
fat heart
fat hen
fat liquor
fat man
fat mouse
fat of the land
fat oil
fat part
fat pork
fat purse
fat series
fat stock
fat-assed
fat-backed
fat-barked
fat-bellied
fat-bodied
fat-cheeked
fat-choy
fat-edged
fat-engendering
fat-faced
fat-faced type
fat-fed
fat-fleshed
fat-free
fat-head
fat-hen
fat-hipped
fat-legged
fat-necrosis
fat-paunched
fat-reducing
fat-rumped sheep
fat-shunning
fat-soluble
fat-tailed
fat-tailed sheep
fat-witted
fata morgana
fatal accident
fatal blow
fatigue clothes
fatigue curve
fatigue disease
fatigue dress
fatigue duty
fatigue life
fatigue limit
fatigue party
fatigue ratio
fatten on
fatten up
fatten upon
fattening grass
fatti maschii
fatty acid
fatty degeneration
fatty heart
fatty oil
fatty tumor
faucet joint
fault bar
fault block
fault breccia
fault conglomerate
fault current
fault lamp
fault line
fault localizer
fault plane
fault rock
fault rubble
fault scarp
fault surface
fault terrace
fault vent
fault-find
fault-finding
fault-line scarp
fault-slip
faulty comparison
faulty coordination
faulty eyesight
faulty grammar
faulty punctuation
faulty reference
faulty subordination
faulty syntax
faun-colored
faunus butterfly
fause-house
faute de mieux
faux jour
faux pas
faux rondelette
faux-bourdon
faux-na
fava bean
favor with
favorable attention
favorable disposition
favorable opportunity
favorable prospect
favorable regard
favorable vote
favorable wind
favorably disposed
favorably impressed with
favorably inclined
favoring wind
favorite of the gods
favorite son
favors of office
fawn brown
fawn lily
fawn upon
fawn-color
fawn-colored
fawn-colour
faying surface
fear God
fear and trembling
fear holding on a minute longer
fear into the heart of
fear of God
fear that has said its prayers
fear-babe
fear-broken
fear-created
fear-depressed
fear-free
fear-froze
fear-inspiring
fear-palsied
fear-pursued
fear-shaken
fear-stricken
fear-struck
fear-tangled
fear-taught
fearsome-looking
feast and famine
feast day
feast of the soul
feast on
feast upon
feast-or-famine
feather alum
feather an oar
feather ball
feather banding
feather beater
feather bed
feather bleacher
feather boa
feather boarding
feather bolster
feather bonnet
feather brush
feather cleanser
feather cloth
feather columbine
feather crotch
feather curler
feather dresser
feather drier
feather driver
feather duster
feather dyer
feather fan
feather fern
feather finisher
feather geranium
feather grass
feather hyacinth
feather in your cap
feather joint
feather key
feather mail
feather maker
feather making
feather mattress
feather merchant
feather mosaic
feather moss
feather ore
feather out
feather palm
feather part
feather picker
feather pillow
feather pink
feather plume
feather poke
feather renovator
feather scrape
feather sewer
feather shot
feather spring
feather staccato
feather star
feather steamer
feather tick
feather tip
feather tract
feather tree
feather trimmer
feather type
feather valve
feather worm
feather your nest
feather'd rain
feather-bed
feather-covered
feather-duster worm
feather-edge
feather-fleece
feather-footed
feather-head
feather-heeled
feather-leaved
feather-legged
feather-stitch
feather-tail glider
feather-tongue
feather-veined
feather-weight
feather-weighted
feather-work
featherbed rule
feathered songster
featheredge file
feathering float
feathering paddle wheel
feathering screw
featherleaf cedar
feathertail glider
feathertop grass
feature attraction
feature editor
feature story
feature-length
feature-writing
febr-
febrifuge plant
fed to the gills
fed to the teeth
fed up
fed-up
fed-upedness
fed-upness
federal agent
federal assembly
federal district
federal government
federal home loan bank
federal intermediate credit bank
federal land bank
federal medicine
federal prison
federal reserve bank
federal tax
federated church
fee farm
fee farmer
fee fief
fee grief
fee position
fee simple
fee simple absolute
fee simple conditional
fee simple defeasible
fee simple determinable
fee splitting
fee tail
fee-farm
fee-faw-fum
fee-simple
fee-splitter
fee-splitting
fee-tail
feeble person
feeble-bodied
feeble-eyed
feeble-lunged
feeble-minded
feeble-mindedly
feeble-mindedness
feeble-voiced
feeble-winged
feeble-wit
feed bag
feed boiler
feed case
feed cooker
feed crusher
feed cutter
feed gear
feed grinder
feed guide
feed hand
feed heater
feed heating
feed hopper
feed line
feed lot
feed mill
feed mixer
feed motion
feed on
feed packer
feed pipe
feed plate
feed pump
feed rack
feed reel
feed rod
feed roll
feed screw
feed stable
feed store
feed tank
feed the fire
feed the fish
feed trough
feed truck
feed tube
feed upon
feed valve
feed water
feed wheat
feed wheel
feed wire
feed-and-reflector unit
feed-back coil
feed-water heater
feedback amplifier
feedback circuit
feedback conductance
feedback control
feedback inhibition
feedback loop
feedback pulses
feedback signals
feedback system engineer
feedback system engineering
feeder airline
feeder cable
feeder ear
feeder line
feeder plant
feeder reactor
feeder road
feeder-in
feeder-up
feeding bottle
feeding cup
feeding head
feeding point
feeding rod
feeding root
feeding standard
feeling market
feel about it
feel acutely
feel anxious
feel around
feel ashamed of yourself
feel at home
feel at liberty
feel awful
feel better about it
feel cheap
feel confident
feel contempt for
feel creepy
feel deeply
feel disgust
feel easy
feel emotion
feel fine
feel for
feel free
feel funny
feel good
feel happy
feel hungry
feel hurt
feel ill
feel in your bones
feel in your breast
feel in your guts
feel in your viscera
feel intuitively
feel like
feel like a million
feel like the walking dead
feel like yourself
feel no obligation
feel of
feel out
feel pain
feel relief
feel resentment
feel small
feel something terrible
feel sore
feel sorrow for
feel sorry for
feel superior to
feel sure
feel the pangs
feel the pulse
feel the want of
feel under an obligation
feel under the weather
feel unsure
feel up
feel up to
feel with
feel with the fingertips
feel your ground
feel your oats
feel your way
feel yourself
feel yourself again
feeler gauge
feeling awful
feeling cold
feeling evil
feeling faint
feeling for
feeling for language
feeling for words
feeling in your bones
feeling low
feeling of identity
feeling of kinship
feeling of relief
feeling out
feeling something terrible
feeling the pinch
feeling tone
feeling your oats
feery-fary
feet first
feet foremost
feet of clay
feg Dialect
feigned belief
feline agranulocytosis
feline distemper
feline enteritis
fell-fare
fell-field
fell-land
felling wedge
fellow actor
fellow american
fellow apprentice
fellow being
fellow boarder
fellow captive
fellow caucasian
fellow christian
fellow citizen
fellow collegian
fellow commoner
fellow communicant
fellow companion
fellow conspirator
fellow convict
fellow countryman
fellow craftsman
fellow creature
fellow criminal
fellow delegate
fellow disciple
fellow emigrant
fellow employee
fellow exile
fellow explorer
fellow feeling
fellow feeling in suffering
fellow guest
fellow heir
fellow helper
fellow idler
fellow immigrant
fellow laborer
fellow listener
fellow lodger
fellow man
fellow member
fellow mortal
fellow passenger
fellow patriot
fellow pedestrian
fellow plotter
fellow prisoner
fellow pupil
fellow servant
fellow sinner
fellow soldier
fellow student
fellow sufferer
fellow townsman
fellow traveler
fellow traveller
fellow tribesman
fellow victim
fellow villager
fellow worker
fellow workman
fellow worshiper
fellow-commoner
fellow-creature
fellow-feel
fellow-feeling
fellow-heir
fellow-man
fellow-men
fellow-servant rule
fellow-soldier
fellowship porter
gelo de se
gelo-de-se
gelon grass
gelon herb
gelone-de-se
gelony murder
gelos-de-se
gelsite-porphyry
gelt conditioner
gelt cutter
gelt dauber
gelt drier
gelt fern
gelt former
gelt fuller
gelt grain
gelt hat
gelt knife
gelt maker
gelt oiler
gelt packer
gelt roller
gelt roofer
gelt roofing
gelt rust
gelt sewer
gelt side
gelt washer
gelt weaver
gelt worker
gelt-jacketed
gelt-lined
gelt-shod
gelt-tip pen
female animal
female being
female gamete
female impersonator
female line
female organ
female organs
female rhyme
female sex
female suffrage
fence splicer
fence stretcher
fence tightener
fence-off
fence-sitter
fence-sitting
fence-straddler
fence-straddling
fenced-in
fencer's mask
fencing foils
fencing mask
fencing master
fencing match
fencing school
fencing stick
fencing-in
fend for yourself
fend off
fender bar
fender beam
fender bolt
fender boom
fender pile
fender post
fender skid
fender spar
fender stool
fender wall
fenestration operation
fennel giant
fennel oil
fennel seed
fennel water
fennel-leaved
fer-de-lance
fer-de-moline
ferae naturae
feriae jova
ferling-noble
fermentation alcohol
fermentation gum
fermentation lock
fermentation tube
fern ally
fern asparagus
fern ball
fern bracken
fern bush
fern clubmoss
fern covert
fern cycad
fern green
fern hook
fern meadowbur
fern moss
fern owl
fern palm
fern preserver
fern scale
fern scrub
fern seed
fern tree
fern weevil
fern-clad
fern-crowned
fern-fringed
fern-leaved
fern-owl
fern-seed
fern-thatched
ferret badger
ferret out
ferret-badger
ferret-eyed
ferretto zone
ferri-
ferric ammonium oxalate
ferric chloride
ferric dimethylidithiocarbamate
ferric oxide
ferric sodium oxalate
ferricyanic acid
ferris wheel
ferrite-rod aerial
ferro-
ferro-carbon-titanium
ferro-concrete
ferro-uranium
ferrocyanic acid
ferroso-
ferrotype tin
ferrous oxide
ferrous sulfate
ferrous sulphate
ferruginous duck
ferry bell
ferry bridge
ferry captain
ferry car
ferry craft
ferry incline
ferry master
ferry pole
ferry rack
ferry rocket
ferry slip
ferry steamer
ferry ticket
ferry warden
ferry-boat
fertile imagination
fertile material
fertile mind
fertile-flowered
fertile-fresh
fertile-headed
fertility cult
fertility god
fertility goddess
fertility spirit
fertility symbol
fertilization cone
fertilization tube
fertilizer ammonia
fertilizer chemical
fertilizer crusher
fertilizer distributor
fertilizer divider
fertilizer drill
fertilizer hand
fertilizer maker
fertilizer making
fertilizer meal
fertilizer mill
fertilizer mixer
fertilizer phosphate
fertilizer plant
fertilizer press
fertilizer sampler
fertilizer spreader
fertilizer tank
fertilizer-crushing
fervent hope
fervent imagination
fescue grass
fess point
fess up
fesse point
festal board
festina lente
festival day
festival of lights
festive occasion
festoon cloud
festoon lighting
festoon pine
festooned pahoehoe
fetal diagnosis
fetal position
fetch a blow
fetch about
fetch and carry
fetch away
fetch breath
fetch candle
fetch down
fetch headway
fetch rod
fetch sternway
fetch up
fetch up all standing
fetch up at
fetch-
fetch-candle
fetch-light
fetched-on
fetching-up
fete champetre
fete day
fete-champetre
feti-
fetid air
fetlock joint
fetlock-deep
fetter bone
feu annual
feu charter
feu d'artifice
feu de joie
feu duty
feu farm
feu farmer
feu-farm
feudal estate
feudal investiture
feudal system
feuille-morte
feux d'artifice
feux de joie
fever bark
fever bird
fever blister
fever chart
fever curve
fever flash
fever fly
fever heat
fever of excitement
fever pill
fever pitch
fever plant
fever reducer
fever sore
fever therapy
fever thermometer
fever treatment
fever tree
fever twig
fever ward
fever-cooling
fever-destroying
fever-haunted
fever-lurden
fever-maddened
fever-reducer
fever-ridden
fever-shaken
fever-sick
fever-smitten
fever-stricken
fever-troubled
fever-warm
fever-weakened
few and far between
few, a
few-acred
few-celled
few-flowered
few-flowered oat grass
few-fruited
few-seeded
few-toothed
fiat justitia ruat caelum
fiat lux
fiat money
fibble-fable
fiber boilerman
fiber bundle
fiber carder
fiber comber
fiber crimper
fiber drafter
fiber dresser
fiber filler
fiber glass
fiber graphite
fiber hackler
fiber mixer
fiber optics
fiber plant
fiber plaster
fiber saturation point
fiber sorter
fiber stitch
fiber turner
fiber wax
fiber-faced
fiber-glass boat
fiber-shaped
fible-fable
fibr-
fibre optics
fibrin ferment
fibrino-
fibrinous pneumonia
fibro-
fibro-osteoma
fibroid heart
fibroid inflammation
fibroid phthisis
fibrous grass
fibrous-coated
fibrous-rooted
fickle Chance
fickle finger of fate
fickle-fancied
fickle-headed
fiduciary bond
fiduciary heir
fiduciary issue
fidus Achates
fie-fie
field armor
field army
field arrow
field artillery
field ash
field bag
field balm
field balsam
field basil
field battery
field bean
field bed
field bee
field beet
field bellwort
field betony
field bindweed
field book
field boot
field bugloss
field camomile
field capacity
field captain
field chickweed
field clerk
field coil
field company
field control
field conventicle
field corn
field cress
field cricket
field crop
field crowfoot
field current
field cypress
field daisy
field day
field dodder
field dog
field driver
field duck
field emission
field of battle
field of blood
field of bloodshed
field of force
field of fractions
field of honor
field of honour
field of inquiry
field of quotients
field of slaughter
field of study
field of view
field of vision
field officer
field order
field park
field pea
field penny-cress
field pine
field plotter
field plover
field poa grass
field poppy
field preaching
field probable error
field range
field ration
field rations
field rivet
field rush
field salad
field scabious
field scorpion grass
field service
field shoes
field soapwort
field soapwortfield sorrel
field sorrel
field southernwood
field spaniel
field sparrow
field speedwell
field spider
field spirit
field spool
field sports
field staff
field station
field stop
field strength
field system
field telegraph
field telephone
field tent
field theory
field thistle
field thyme
field tiller
field titling
field train
field training
field trial
field trip
field vole
field winding
field work
field wormwood
field woundwort
field yam-root
field-bed
field-book
field-control converter
field-controlled
field-conveticle
field-conveticler
field-cornet
field-cornety
field-day
field-discharge switch
field-effect transistor
field-emission X-ray tube
field-glass
field-holler
field-marshall
field-meeting
field-strength meter
field-strip
field-stripped
field-stripping
field-stript
field-transfer switch
field-work
fielded panel
fielder's choice
fielding average
fields of Aalu
fiend from hell
fierce temper
fierce-eyed
fierce-faced
fierce-looking
fierce-minded
fierce-natured
fieri facias
fiery cross
fiery furnace
fiery imagination
fiery ordeal
fiery temper
fiery-bright
fiery-cross
fiery-crowned
fiery-eyed
fiery-faced
fiery-fierce
fiery-flaming
fiery-footed
fiery-helmed
fiery-hoofed
fiery-hot
fiery-kindled
fiery-liquid
fiery-mouthed
fiery-pointed
fiery-rash
fiery-seeming
fiery-shining
fiery-spangled
fiery-sparkling
fiery-spirited
fiery-sworded
fiery-tempered
fiery-tressed
fiery-twinkling
fiery-veined
fiery-visaged
fiery-wheeled
fiery-winged
fiesta de toros
fiesta flower
fiesta taurina
fiestas de toros
fiestas taurinas
fife rail
fife-rail
fifteen-pounder
fifth column
fifth columnist
fifth monarchy
fifth position
fifth venereal disease
fifth wheel
fifth-column
fifth-column activity
fifty cents
fifty percent
fifty-acre
fifty-dollar bill
fifty-eight
fifty-eighth
fifty-fifth
fifty-fifty
fifty-first
fifty-five
fifty-four
fifty-fourth
fifty-mile
fifty-nine
fifty-ninth
fifty-one
fifty-second
fifty-seven
fifty-seventh
fifty-six
fifty-sixth
fifty-third
fifty-three
fifty-two
fifty-year
fiftyty-fifty
fig banana
fig bar
fig bean
fig dust
fig faun
fig finch
fig insect
fig leaf
fig marigold
fig moth
fig out
fig parrot
fighting ship
fighting top
fighting weight
fights, the
figment of the imagination
figurate number
figurative language
figuratively speaking
figure caster
figure dance
figure dancer
figure eight
figure in
figure of comparison
figure of eight
figure of fun
figure of speech
figure on
figure out
figure skate
figure skater
figure skates
figure skating
figure stone
figure to yourself
figure up
figure work
figure-caster
figure-flinger
figure-four trap
figure-ground
figure-head
figure-of-eight knot
figured bass
figured glass
figured style
figures of
figures of speech
figuring in the mind
figwort family
filament battery
filament lamp
filamentary transistor
filbert brown
filbert mouse
file a claim
file and forget
file away
file band
file bottom
file card
file cleaner
file clerk
file closer
file cutter
file dresser
file dust
file finishing
file fire
file firing
file folder
file for
file forger
file grinder
file leader
file maker
file off
file setter
file sharpener
file signal
file snake
file suit for divorce
file tempering
file-fish
file-hard
file-soft
filet lace
filet mignon
filets mignons
filial generation
filial love
filiate to
filing box
filing card
filing case
filing clerk
filing system
filius nullius
filius populi
filix-mas
fill an office
fill and stand on
fill away
fill cap
fill horse
filter leaf
filter out
filter paper
filter passer
filter plate
filter press
filter pump
filter tip
filter-passing
filter-tipped
filterable virus
filtering flask
filth disease
filth ferment
filth receptacle
filth-borne
filth-created
filth-fed
filth-sodden
filthy humor
filthy language
filthy lucre
filthy person
filthy place
filthy rich
filthy weed
filthy-handed
filum aquae
fin boom
fin colter
fin cutter
fin de siecle
fin fold
fin keel
fin ray
fin whale
fin-backed
fin-fold theory
fin-footed
fin-shaped
fin-spined
fin-stabilized rocket
fin-tailed
fin-toed
fin-winged
final cause
final draft
final examination
final extremity
final hour
final instructions
final lot
final notice
final offer
final proposal
final result
final solution
final stroke
final summons
final touch
final twitch
final warning
final whistle
final words
finance bill
finance capitalism
finance capitalist
finance company
finance corporation
financial assistance
financial backing
financial commitment
financial condition
financial credit
financial crisis
financial district
financial expert
financial interests
financial officer
financial remuneration
financial support
financial year
finback whale
finch falcon
finch-backed
find a clue to
find a husband for
find a loophole
find a mate for
find a phrase for
find a way
find a wife for
find against
find an indictment against
find an opening
find credence
find fault
find favor
find favor with
find for
find guilty
find hard to believe
find herself
find it hard going
find means
find out
find out about
find refuge
find sanctuary
find the answer
find the key of
find the key to
find the solution
find time
find vent
find words to express
find your
find your account in
find your advantage in
find your heart
find your position
find your tongue
find your way into
find yourself
find yourself at
finder switch
finder telescope
finder-point punch
finding list
finding out
finding store
finding-out
fine Italian hand
fine and dandy
fine art
fine art of living
fine arts
fine chemicals
fine distinction
fine feather
fine fettle
fine flavor
fine gentleman
fine hand
fine how-do-you-do
fine kettle of fish
fine lady
fine linen
fine nail
fine palate
fine point
fine print
fine print at the bottom
fine sewer
fine shape
fine structure
fine talk
fine texture
fine whack
fine writer
fine writing
fine-appearing
fine-ax
fine-bore
fine-bred
fine-count
fine-cut
fine-dividing
fine-draw
fine-drawer
fine-drawing
fine-drawn
fine-dressed
fine-drew
fine-eyed
fine-feathered
fine-featured
fine-feeling
fine-fleeced
fine-furred
fine-graded
fine-grain
fine-grained
fine-grainedness
fine-haired
fine-headed
fine-leaved
fine-leaved heath
fine-looking
fine-mouthed
fine-nosed
fine-set
fine-sifted
fine-skinned
fine-spirited
fine-spoken
fine-spun
fine-still
fine-tapering
fine-threaded
fine-timbered
fine-toned
fine-tongued
fine-tooth
fine-tooth comb
fine-tooth-comb
fine-toothcomb
fine-toothed
fine-toothed comb
fine-tricked
fine-wrought
fineness of grain
fineness ratio
finer feelings
finery furnace
finery hearth
fines herbes
finger alphabet
finger bar
finger board
finger bowl
finger brush
finger clamp
finger coral
finger cutting
finger cymbals
finger exercise
finger fern
finger food
finger fracture
finger gate
finger gauge
finger grass
finger grip
finger guard
finger herb
finger hole
finger joint
finger lake
finger lime
fir-bordered
fir-built
fir-crested
fir-scented
fir-topped
fir-tree
fire a salute
fire a shot at
fire a volley
fire adjuster
fire alarm
fire altar
fire and brimstone
fire and fury
fire ant
fire apparatus
fire appliance
fire area
fire arrow
fire assay
fire at
fire away
fire balloon
fire bar
fire barrel
fire barrier
fire basket
fire bay
fire bean
fire beater
fire bed
fire beetle
fire bell
fire belt
fire bill
fire blast
fire blight
fire block
fire blower
fire bomb
fire boss
fire break
fire breather
fire bridge
fire brigade
fire bucket
fire buff
fire builder
fire bush
fire cage
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fire chief
fire churn
fire clay
fire cock
fire command
fire commander
fire company
fire control
fire cross
fire curtain
fire cut
fire cutoff
fire dance
fire department
fire direction
fire division wall
fire door
fire drill
fire drilling
fire effect
fire engine
fire escape
fire exit
fire extinguisher
fire fan
fire festival
fire fiend
fire fight
fire fighter
fire fighting
fire finch
fire finder
fire flag
fire fungus
fire gilding
fire gilt
fire gilting
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fire hangbird
fire hat
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fire retarder
fire risk
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fire root
fire salamander
fire sale
fire salvage
fire sand
fire saw
fire scarlet
fire screen
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fire setting
fire ship
fire shovel
fire shutter
fire slash
fire spirit
fire station
fire step
fire stick
fire stink
fire stop
fire storm
fire support
fire swab
fire tactics
fire temple
fire test
fire the blood
fire thorn
fire tongs
fire tower
fire tree
fire trench
fire tube
fire underwriter
fire up
fire upon
fire walk
fire walking
fire wall
fire warden
fire watcher
fire weather
fire window
fire worker
fire worship
fire-footed
fire-free
fire-gilded
fire-god
fire-hardened
fire- hoofed
fire-hook
fire-hot
fire-hunt
fire-hunting
fire-iron
fire-leaves
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fire-lilies
fire-lily
fire-lipped
fire-marked
fire-master
fire-mouthing
fire-new
fire-pan
fire-pitted
fire-place
fire-plow
fire-polish
fire-pot
fire-proof
fire-protection engineer
fire-quenching
fire-raiser
fire-raising
fire-red
fire-resistant
fire-resistant material
fire-resisting
fire-resisting material
fire-resistive
fire-resistive material
fire-retardant
fire-retardant material
fire-retarded
fire-ring
fire-robed
fire-safeness
fire-scarred
fire-scathe
fire-screen
fire-seamed
fire-ship
fire-souled
fire-spirited
fire-spitting
fire-sprinkling
fire-stone
fire-strong
fire-swart
fire-swift
fire-tailed
fire-tight
fire-tube boiler
fire-warmed
fire-wheeled
fire-winged
fire-work
fire-worker
fireburn bush
firecracker flower
fireless cooker
fireless heater
fireplace fitter
fireproof material
fireworks rocket
firing area
firing battery
firing charge
firing data
firing glass
firing iron
firing line
firing order
firing party
firing pin
firing ring
firing squad
firing step
firing table
firing test
firing tread
firing tube
firm as Gibraltar
firm belief
firm friendship
firm ground
firm hand
firm hold
firm price
firm resolve
firm up
firm-based
firm-braced
firm-chinned
firm-compacted
firm-footed
firm-framed
firm-jawed
firm-joint
firm-minded
firm-nerved
firm-paced
firm-planted
firm-rooted
firm-set
firm-sinewed
firm-textured
firm-written
firmament blue
firmer chisel
firmer gouge
firmly established
firmness of mind
firmness of spirit
firred plywood
first aid
first among equals
first and foremost
first and last
first appearance
first approach
first arrival
first axiom of countability
first base
first baseman
first blush
first blush of the morning
first brightening
first category
first cause
first choice
first class
first comer
first cousin
first crack
first crack out of the box
first principles
first prize
first quarter
first rate
first reader
first reading
first refusal
first round
first school
first sergeant
first sight
first speed
first stage
first step
first steps
first stomach
first stone
first story
first string
first team
first thing
first tragedian
first violinist
first water
first-aid
first-aider
first-begot
first-begotten
first-born
first-bred
first-built
first-cause argument
first-chop
first-class
first-class mail
first-conceived
first-created
first-day
first-day cover
first-degree burn
first-done
first-endevoring
first-expressed
first-famed
first-floor
first-foot
first-footer
first-formed
fish blanket
fish boom
fish bowl
fish breeder
fish breeding
fish cake
fish carrier
fish carver
fish checker
fish coop
fish crane
fish crow
fish culture
fish davit
fish day
fish dinner
fish doctor
fish duck
fish eagle
fish eggs
fish essence
fish eye
fish factory
fish flake
fish flour
fish fly
fish for
fish for compliments
fish fork
fish fry
fish fungus
fish geranium
fish globe
fish glue
fish grass
fish guano
fish hatcher
fish hatchery
fish hawk
fish in troubled waters
fish inspector
fish joint
fish kettle
fish killer
fish knife
fish ladder
fish lead
fish louse
fish manure
fish maw
fish meal
fish mint
fish mold
fish moth
fish net
fish oil
fish or cut bait
fish out
fish out of water
fish owl
fish pearl
fish pendant
fish plank
fish poison
fish pole
fish pomace
fish salt
fish scale
fish scrap
fish slice
fish soup
fish splice
fish stick
fish story
fish tackle
fish tail
fish tape
fish tapeworm
fish to fry
fish tongue
fish torpedo
fish up
fish warden
fish wheel
fish wire
fish young
fish-and-chip shop
fish-and-chips
fish-backed
fish-bellied
fish-belly rail
fish-blooded
fish-canning
fish-cultural
fish-culturist
fish-day
fit for the junk yard
fit for the wastepaper basket
fit in
fit of abstraction
fit of anger
fit of crying
fit of laughter
fit of temper
fit out
fit plant
fit strip
fit the pattern
fit to be tied
fit to bust
fit to kill
fit to live in
fit together
fit up
fitchy at the foot
fitful sleep
fitness for society
fits and starts
fitted coat
fitted for
fitted out
fitted sheet
fittie-lan
fitting change
fitting out
fitting room
fitting strip
five C's
five W's
five all
five and twenty
five back
five bucks
five cents
five centuries
five dollars
five hundred
five hundred dollars
five hundred rummy
five percenter
five rayed
five senses
five spice powder
five stones
five-acre
five-act
five-and-dime
five-and-ten
five-and-ten-cent store
five-barred
five-barred gate
five-beaded
five-branched
five-by-five
five-card
five-chambered
five-corn
five-cornered
five-corners
five-cut
five-day
five-day fever
five-day week
five-dollar bill
five-dollar gold piece
five-eighth
five-em space
five-faced bishop
five-figure
five-finger
five-fingered
five-fingers
five-flowered
five-foiled
five-foot
five-gaited
five-guinea
five-horned
five-hour
five-hundred-dollar bill
five-inch
five-leaf
five-leafed
five-leaved
five-legged
five-line
five-lined
five-lobed
five-master
five-mile
five-minute
five-minute gun
five-nerved
five-nine
five-o'clock shadow
five-o'clock tea
five-page
five-part
five-part time
five-parted
five-percenter
five-ply
five-pointed
five-pointed star
five-pound
five-quart
five-rater
five-reel
five-reeler
five-ribbed
five-room
five-shooter
five-sisters
five-spot
five-spotted
five-star
five-star general
five-story
five-stringed
five-toed
five-toothed
five-twenty
five-valved
five-volume
five-week
five-year
five-year plan
fivepenny morris
fix a limit
fix in the memory
fix in the mind
fix on
fix the blame for
fix the burden of
fix the date
fix the eyes upon
fix the mind on
fix the mind upon
fix the paternity of
fix the price of
fix the responsibility for
fix the thoughts on
fix the thoughts upon
fix the time
fix to
fix together
fix up
fix upon
fix your attention
fix your gaze
fix your position
fix your thoughts
fix-it shop
fixation abscess
fixation neurosis
fixation pause
fixation point
fixative varnish
fixed and flashing light
fixed arch
fixed asset
fixed assets
fixed belief
fixed capital
fixed charge
fixed charges
fixed cost
fixed costs
fixed feast
fixed idea
fixed in the mind
fixed investment trust
fixed liability
fixed light
fixed mind
fixed oil
fixed opinion
fixed point
fixed price
fixed purpose
fixed regard
fixed resolve
fixed satellite
fixed star
fixed stars
fixed station
fixed trust
fixed upon
fixed-bar
fixed-do
fixed-do system
fixed-focus camera
fixed-head coup
fixed-head coupe
fixed-hub
fixed-hub axle
fixed-income
fixed-point representation
fixed-temperature
fixed-wing aircraft
fixing bath
fixity of purpose
fizz out
fizzle out
fl dr
fl oz
flabby-cheeked
flabelli-
flag captain
flag day
flag down
flag fall
flag flower
flag halyard
flag hoister
flag lieutenant
flag list
flag of convenience
flag of truce
flag officer
flag post
flag rank
flag salute
flag seat
flag signal
flag smut
flag station
flag stop
flag waver
flag waving
flag-bearer
flag-bedizened
flag-man
flag-officer
flag-root
flag-ship
flag-staff
flag-stone
flag-waver
flag-waving
flagellate yourself
flageolet tone
flagging iron
flagon-shaped
flagrant falsehood
flagrante delicto
flail at
flail away at
flail joint
flak jacket
flak ship
flak suit
flak train
flak vest
flake figure
flake manna
flake off
flake out
flake stand
flake tragacanth
flake white
flaked-out
flaky pastry
flambor flamb
flame azalea
flame blue
flame bridge
flame cell
flame color
flame cultivator
flame gun
flame holder
flame ignition
flame lamp
flame lily
flame lousewort
flame manometer
flame microphone
flame nettle
flame out
flame projector
flame reaction
flame red
flame scarlet
flame spectrum
flame standard
flame stitch
flame test
flame tetra
flame thrower
flame trap
flame tree
flame up
flame vine
flame-breasted
flame-breathing
flame-colored
flame-colour
flame-cut
flame-darting
flame-devoted
flame-eyed
flame-faced
flame-feathered
flame-fusion process
flame-haired
flame-of-the-forest
flame-of-the-woods
flame-out
flame-red
flame-robed
flame-shaped
flame-snorting
flame-sparkling
flame-thrower
flame-tight
flame-tipped
flame-tree
flame-uplifted
flame-winged
flames-of-the-woods
flaming torch
flamingo flower
flamingo-flower
flammable material
flan ring
flange bushing
flange coupling
flange joint
flange nut
flange plate
flange pulley
flange rail
flange steel
flange tile
flange union
flank attack
flank company
flank defense
flank file
flank fire
flank guard
flank march
flank movement
flank patrol
flank speed
flank steak
flanker back
flanking angle
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flannel flower
flannel moth
flannel plant
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flannelmouth sucker
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flap hinge
flap the memory
flap tile
flap valve
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flap-eared
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flapper skate
flapper-bag
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flare path
flare rocket
flare star
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flash across the mind
flash back
flash boiler
flash bulb
flash burn
flash butt welding
flash camera
flash card
flash color
flash fire
flash flood
flash gear
flash generator
flash gun
flash in the pan
flash lamp
flash method
flash of light
flash of lightning
flash of wit
flash on the mind
flash pasteurization
flash photography
flash photolysis
flash picture
flash pipe
flash point
flash powder
flash price
flash set
flash spectrum
flash synchronizer
flash test
flash tube
flash up
flash upon one
flash valve
flash welding
flash wheel
flash-board
flash-house
flash-lock
flash-man
flash-pasteurize
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flashed glass
flashing block
flashing light
flashing point
flashover voltage
flask-shaped
flask-shaped heart
flat aft
flat and unprofitable
flat arch
flat as a billiard table
flat as a board
flat as a bowling green
flat as a cake
flat as a flounder
flat as a pancake
flat as a tennis court
flat back
flat broke
flat bug
flat calm
flat cap
flat coat
flat contradiction
flat country
flat drill
flat failure
flat fish
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flat glass
flat in
flat key
flat knit
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flat knot
flat market
flat on your back
flat on your belly
flat on your nose
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flat palm
flat pass
flat point lace
flat press
flat race
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flat refusal
flat roof
flat sage
flat sennit
flat silver
flat sour
flat spin
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flat wash
flat-armed
flat-backed
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flat-bed cylinder press
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flat-ways
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flattening stone
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flatter yourself
flatter-blind
flattering remark
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flating oil
flattop antenna
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flatwork ironer
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flavoring extract
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flax blue
flax brake
flax buncher
flax bundler
flax canker
flax comb
flax dodder
flax dresser
flax family
flax hackler
flax lily
flax olive
flax plant
flax retter
flax ripple
flax rust
flax snapdragon
flax spinner
flax star
flax straw
flax vine
flax wheel
flax wilt
flax winder
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flax-flower blue
flax-leaved
flax-pollled
flax-seed
flax-sick
flaxen-colored
flaxen-haired
flaxen-headed
flaxen-wigged
flaxseed cake
flaxseed coal
flaxseed oil
flea beetle
flea bug
flea collar
flea fair
flea hopper
flea in the ear
flea in your ear
flea in your nose
flea louse
flea market
flea mint
flea weevil
flea-bane
flea-bite
flea-bitten
flea-lugged
fleabane mullet
fleam tooth
fleche de lard
flector tuning
fleece vine
fleece wool
fleece-lined
fleece-vine
fleece-white
fleecy cloud
fleecy-looking
fleecy-white
fleecy-winged
fleer at
fleet admiral
fleet engineer
fleet insurance
fleet milk
fleet street
fleet submarine
fleet-foot
fleet-footed
fleeting impulse
french-gut
flesh and blood
flesh color
flesh crow
flesh eater
flesh flea
flesh fly
flesh fork
flesh glove
flesh hoop
flesh ocher
flesh out
flesh pink
flesh red
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flesh side
flesh tint
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flesh wound
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flesh-eater
flesh-eating
flesh-fallen
flesh-fly
flesh-pink
flesh-pot
fleshing knife
fleshly delight
fleshly lust
fleshly-minded
fleshpots of Egypt
fleshy fruit
fleshy-fruitied
fleur de luce
fleur de lys
fleur-de-lis
fleur-de-lys
fleurs-de-lis
fleurs-de-lys
fleury counterfleury
flex point
flex wing
flex your muscles
flexible shaft
flexible supports
flexible-shaft drill
flexuoso-
flexure plate scale
flick knife
flick of the eyelash
flick you on the raw
flicker of an eye
flicker photometer
flicker photometry
flimflam man
flincher-mouse
flinders grass
fling at
fling down
fling down the gage
fling down the gauntlet
fling down the glove
fling off
fling out
flinging-tree
flint age
flint and steel
flint clay
flint corn
flint glass
flint gray
flint mill
flint miller
flint milling
flint paper
flint paring
flint skinning
flint sponge
flint wheat
flint-dried
flint-glass
flint-lock
flip a coin
flip chart
flip glass
flip of a coin
flip of the coin
flip out
flip side
flip side, the
flip through
flip through the pages
flip your lid
flip your wig
flip-flap
flip-flop
flip-flop circuit
flip-flopped
flip-flopping
flip-flops
flip-up
flipper turns
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flooring plaster
flooring saw
flooring stone
flooring timber
flop down
flop forging
flop-eared
flop-top
flora and fauna
floral clock
floral decoration
floral emblem
floral envelope
floral leaf
flores sulphuris
florid passage
florid phrase
florid style
flory counter-flory
flos ferri
flos-ferri
floss hole
floss silk
floss thread
floss-silk
floss-silk tree
flossflower blue
flotation blanket
flotation cell
flotation gear
flotsam and jetsam
flounce off
flounce out
flounder-man
flour bag
flour barrel
flour beetle
flour bin
flour blend
flour blender
flour blending
flour bolt
flour bolter
flour bolting
flour copper
flour corn
flour grinder
flour hopper
flour maker
flour mill
flour miller
flour milling
flour mite
flour mixer
flour moth
flour packer
flour paste
flour sack
flour sifter
flour sifting
flour slick
flour weevil
flour weigher
flour worm
flourish of rhetoric
flourish of trumpets
flourishing condition
flourishing thread
flow back
flow bean
flow breccia
flow calorimeter
flow chart
flow cleavage
flow control
flow diagram
flow from
flow gate
flow in
flow moss
flow nipple
flow of air
flow of blood
flow of ideas
flow of thought
flow of time
flow of words
flow on
flow out
flow over
flow sheet
flow texture
flow together
flow valve
flow-blue
flow-control system
flow-on
flowage texture
flower arrangement
flower basket
flower bed
flower beetle
flower boat
flower bowl
flower box
flower bud
flower bug
flower child
flower concrete
flower cup
flower fence
flower fly
flower garden
flower gardening
flower girl
flower grower
flower head
flower maker
flower making
flower nymph
flower of age
flower of life
flower outbloom
flower painter
flower painting
flower paintress
flower part
flower piece
flower power
flower pride
flower scissors
flower seller
flower shop
flower show
flower spike
flower stalk
flower time
flower tree
flower-bearing
flower-bespangled
flower-besprinkled
flower-breeding
flower-crowned
flower-cup fern
flower-de-luce
flower-decked
flower-embroidered
flower-enameled
flower-enwoven
flower-faced
flower-gentle
flower-growing
flower-hung
flower-infolding
flower-inwoven
flower-kirtled
flower-of-Jove
flower-of-an-hour
flower-pecker
flower-pot
flower-scented
flower-shaped
flower-sprinkled
flower-strewn
flower-sucking
flower-sweet
flower-teeming
flowering currant
flowering dogwood
flowering flax
flowering maple
flowering moss
flowering plant
flowering quince
flowering raspberry
flowering rush
flowering spurge
flowering time
flowering tobacco
flowering wintergreen
flowering-rush family
flowers of rhetoric
flowers of speech
flowers of sulfur
flowers of zinc
flowers-of-Jove
flowery language
flowery style
fluoboric acid
fluophosphoric acid
fluor spar
fluor-
fluor-spar
fluorescence microscope
fluorescent lamp
fluorescent light
fluorescent lighting
fluorescent paint
fluorescent tube
fluoric acid
fluorine dating
fluorite green
fluorite violet
fluoro-
fluorocarbon plastic
fluorophosphoric acid
fluosilicic acid
flush box
flush coat
flush deck
flush girt
flush of money
flush out
flush rim
flush tank
flush with money
flush-bound
flush-cut
flush-deck vessel
flush-decked
flush-decked vessel
flush-decker
flush-head rivet
flush-headed
flush-jointed
flush-plate filter
flush-plated
flushed with anger
flushed with joy
flushed with pride
flushed with success
flushed with victory
flushing out
flushing rim
flute glass
flute shrike
flute stop
flute-douce
flute-shaped
fluting iron
flutter kick
flutter the dovecotes
flutter tonguing
flutter valve
flutter wheel
flutter-headed
fluttering the eyelids
fluvio-aonian
flux and reflux
flux de bouche
flux de mots
flux de paroles
flux density
flux function
flux gate
flux linkage
flux of time
flux of words
flux turn
flux valve
fluxing lime
fly a kite
fly about
fly agaric
fly aloft
fly anchor
fly apart
fly ash
fly at
fly back
fly ball
fly bar
fly blind
fly blister
fly block
fly book
fly by the seat of your pants
fly cap
fly casting
fly cop
fly dope
fly down
fly drill
fly finisher
fly finishing
fly fishing
fly floor
fly frame
fly front
fly fungus
fly gallery
fly governor
fly half
fly high
fly honeysuckle
fly in formation
fly in the face of
fly in the face of facts
fly in the face of reason
fly in the face of the law
fly in the ointment
fly in the teeth of
fly into a passion
fly into a rage
fly into a temper
fly into the face of danger
fly left seat
fly line
fly loft
fly low
fly mold
fly mushroom
fly net
fly nut
fly oat
fly off
fly off at a tangent
fly off the handle
fly on instruments
fly open
fly orchid
fly out
fly page
fly phalanger
fly poison
fly powder
fly press
fly rail
fly right seat
fly rod
fly rollway
fly rope
fly sheet
fly snapper
fly spray
fly spring
fly stone
fly storm warnings
fly swatter
fly tent
fly the beam
fly the coop
fly tick
fly tip
fly title
fly to
fly to the assistance of
fly to the sword
fly up
fly wagon
fly water
fly way
fly weevil
fly whisk
fly-away
fly-bane
fly-bitten
fly-blow
fly-blown
fly-boat
fly-boy
fly-by-night
fly-catcher
fly-catching
fly-catching warbler
fly-dung
fly-fish
fly-fisher
fly-fisherman
fly-fishing
fly-flap
fly-free
fly-killing
fly-leaf
fly-net
fly-past
fly-rail
fly-sheet
fly-specked
fly-spleckled
flying machine
flying mare
flying marmot
flying moor
flying motorcycle
flying mouse
flying nightingale
flying officer
flying phalanger
flying platform
flying range
flying ring
flying robin
flying rumor
flying sap
flying saucer
flying shear
flying skysail
flying speed
flying spot
flying squad
flying squadron
flying squirrel
flying start
flying tackle
flying tank
flying tanker
flying torpedo
flying wing
flywheel effect
flywheel efficiency
flywheel-explosion
foam at the mouth
foam extinguisher
foam glass
foam rubber
foam-beat
foam-born
foam-crested
foam-flanked
foam-flecked
foam-girt
foam-lit
foam-painted
foam-rubber mattress
foam-white
foaming at the mouth
fob chain
fob off
fob on
focal distance
focal epilepsy
focal infection
focal inflammation
focal length
focal plane
focal point
focal ratio
focal-plane shutter
focus lamp
focus of attention
focus of interest
focus on
focus the attention
focus the mind on
focus the thoughts on
focus tube
focus upon
focus your thoughts
focusing cloth
focusing glass
foe-encompassed
foe-reaped
foe-subduing
foeti-
fog alarm
fog bank
fog bell
fog belt
fog buoy
fog circle
fog drip
fog forest
fog gong
fog grass
fog gun
fog lamp
fog level
fog light
fog screen
fog signal
fog up
fog whistle
fog-bank
fog-beset
fog-blue
fog-born
fog-bred
fog-hidden
fog-logged
fog-ridden
fog-signal
foie de veau
foie gras
foist in
foist on
foist yourself upon
fold dike
fold in
fold over
fold soke
fold to the heart
fold up
fold your arms
fold-away bed
folded dipole
folded sleep
folder-up
folding bed
folding bicycle
folding camera
folding chair
folding door
folding fin
folding ladder
folding machine
folding money
folding press
folding table
folding wing
foliage brown
foliage carver
foliage green
foliage leaf
foliage plant
foliate Architect
foliated joint
foliato-
folic acid
folie a deux
folie de grandeur
folie du doute
folinic acid
folio letterheads
folio noteheads
folio post
folio verso
folk air
folk art
folk ballad
folk ballads
folk belief
folk carol
folk custom
folk dance
folk dancing
folk dialect
folk drama
folk ethics
folk etymology
folk guitarist
folk hero
folk lay
folk literature
folk medicine
folk melody
folk memory
folk mind
folk motif
folk music
folk myth
folk nation
folk play
folk poetry
folk psychologist
folk psychology
folk rock
folk school
folk singer
folk singing
folk society
folk song
folk songs
folk speech
folk state
folk story
folk tale
folk theater
folk tune
folk weave
folk-dancer
folk-etymological
follow the leader
follow the party line
follow the rule
follow the rules
follow the scent of
follow the sea
follow the spoor of
follow the straight and narrow
follow the trail of
follow the trail to
follow through
follow to a conclusion
follow up
follow up an inquiry
follow up the attack
follow your nose
follow-focus shot
follow-my-leader
follow-on
follow-through
follow-up
follower plate
follower rest
follower-up
followers of Christ
following the letter
following wind
folly-bent
folly-blind
folly-drenched
folly-fallen
folly-fed
folly-maddened
folly-painting
folly-snared
folly-stricken
fond hope
fond illusion
fond of
fond of society
fond plow
fond-blind
fond-conceited
fond-hardy
fond-sparkling
fondness for society
fondue Bourguignonne
fons et origo
font name
foo yong
foo yoong
foo-foo
food allowance
food analyst
food and drink
food ball
food cabinet
food canal
food card
food cart
food chain
food chemist
food color
food container
food cycle
food faddist
food fish
food for powder
food for thought
food for worms
food freezing
food grain
food grower
food inspector
food items
food of the gods
food package
food packer
food plant
food poisoning
food preservative
food reserve
food shop
food store
food supply
food tax
food tube
food value
food waste
food web
food yolk
food-gathering
food-processing
food-producing
food-productive
food-providing
food-sick
food-size
fool around
fool around with
fool away
fool away time
fool duck
fool hay
fool hen
fool mistake
fool notion
fool plow
fool trick
fool with
fool's cap
fool's coat
fool's errand
fool's gold
fool's paradise
fool's parsley
fool's trick
fool's-cap
fool's-parsley
fool-bold
fool-born
fool-frequented
fool-frighting
fool-happy
fool-hasty
fool-headed
fool-heady
fool-large
fool-proof
fooling around
foolish act
foolish guillemot
foolish thing
foolish-bold
foolish-looking
foolish-wise
foolish-witty
foolscape octavo
foolscape quarto
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foot at
foot base
foot bath
foot bellows
foot track
foot trail
foot traveler
foot tubercle
foot up
foot valve
foot wailing
foot walker
foot warmer
foot washing
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foot-breadth
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foot-candle meter
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foot-free
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foot-hook
foot-hot
foot-lambert
foot-lame
foot-length
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foot-loose
foot-mantle
foot-mark
foot-note
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foot-payh
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foot-poundal
foot-power
foot-running
foot-second
foot-slog
foot-sore
foot-tiring
foot-ton
foot-up
foot-wall
foot-weary
football field
football pools
football season
footed arrow
foothill death camas
foothill pine
foothill yellow pine
footing ale
footing beam
footing it
footing piece
footing stone
footloose and fancy-free
footman moth
footmen's gallery
footplate man
footstep bearing
footwear merchant
for FC
for God's sake
for a certainty
for a consideration
for a coon's age
for a dog's age
for a fact
for a lifetime
for a little while
for a long time
for a mere song
for a moment
for a month of Sundays
for a rainy day
for a season
for a short time
for a song
for a time
for a wonder
for ages
for ages of ages
for all me
for all practical purposes
for all that
for all the world
for all the world like
for all time
for all to see
for all you are worth
for all you know
for all your natural life
for always
for amusement
for an age
for and
for anything you knows
for aught one cares
for aught one knows
for aye
for better or for worse
for certain
for crying out loud
for dear life
for donkey's years
for each
for effect
for ever
for ever and ever
for ever so long
for evermore
for example
for fear of
for fear that
for fete
for foehn
for form's sake
for free
for fun
for good
for good and all
for good measure
for goodness sake
for heaven's sake
for hire
for instance
for it
for keeps
for kicks
for lack of something better
for lagniappe
for laughs
for life
for long
for love
for many a long day
for mercy's sake
for money
for my part
for nickels and dimes
for no other ears
for nothing
for others
for pennies
for practical purposes
for professional services
for public consumption
for real
for rent
for sale
for services rendered
for short
for show
for some reason
for sport
for sure
for that
for that cause
for that reason
for the asking
for the best
for the better
for the birds
for the cause that
for the devil of it
for the duration
for the fun of it
for the heck of it
for the hell of it
for the life of you
for the love of
for the meantime
for the moment
for the most part
for the nonce
for the people
for the period of
for the purpose of
for the reason that
for the record
for the sake of
for the term of your days
for the time
for the time being
for this cause
for this occasion
for this reason
for two
for want of
for what reason
for whatever reason
for which
for which reason
for why
for years on end
for your benefit
for your ears only
for your health
for your life
for your money
for your part
for yourself
for-
forage acre
forage cap
forage grass
forage poisoning
forage press
foraging ant
foramen magnum
foramen ovale
forasmuch as
forbid it Heaven
forbidden fruit
forbidden love
forbidding countenance
force attack
force bed
force by
force feed
force feeding
force fit
force from
force function
force in
force into a mold
force main
force majeure
force of arms
force of friction
force of gravity
force of habit
force of inertia
force of life
force of viscosity
force on
force open
force out
force out of place
force play
force polygon
force pump
force to the wall
force upon
force your hand
force your thoughts from
force your way
force-closed
force-fed
force-feed
force-feeding
force-meat
force-out
force-pump
force-put
force-ripe
forced coding
forced draft
forced landing
forced march
forced marriage
forced resignation
forced sale
forced separation
forced-labor camp
forceps-shaped
forces majeures
forces of nature
forcible feeble
forcible removal
forcible seizure
forcible shift
forcible-feeble
forcing bed
forcing bid
forcing engine
forcing fit
forcing house
forcing on
forcing out
forcing pit
forcing system
forcing-pump
fore and aft
fore bow
fore edge
fore gaff-topsail
fore jack
fore lift
fore part
fore plane
fore rent
fore rider
fore sey
fore tooth
fore topgallant sail
fore wing
fore-
fore-adapt
fore-age
fore-alleged
fore-and-aft
fore-and-aft axis
fore-and-aft rig
fore-and-aft rigged
fore-and-aft sail
fore-and-aft schooner
fore-and-aft tackle
fore-and-aft-rigged
fore-and-after
fore-appoint
fore-axle
fore-being
fore-cabin
fore-check
fore-cited
fore-court
fore-dated
fore-deck
fore-edge
fore-edge painting
foreelder
fore-elders
fore-end
fore-exercise
fore-foot
fore-game
fore-glide
fore-gut
fore-hammer
fore-handed
fore-hearth
fore-judge
fore-lie
fore-mean
fore-mention
fore-notice
fore-oath
fore-part
fore-piece
fore-possess
fore-purpose
fore-quote
fore-rank
fore-reach
fore-read
fore-recited
fore-rider
fore-run
fore-sail
fore-say
fore-set beds
fore-sheet
fore-skysail
fore-skysail backstay
fore-skysail brace
fore-skysail lift
fore-skysail mast
fore-skysail shroud
fore-skysail yard
fore-stage
fore-staff
fore-tack
fore-tooth
fore-topgallant
fore-topgallant backstay
fore-topgallant brace
fore-topgallant lift
fore-topgallant mast
fore-topgallant shroud
fore-topgallant stay
fore-topgallant studding sail
fore-topgallant yard
fore-topmast
fore-topmast backstay
fore-topmast stay
fore-topmast staysail
fore-topmast staysail stay
fore-topmast studding sail
fore-topmast-studding-sail boom
fore-topsail
fore-topsail lift
fore-topsail yard
fore-trysail gaff
fore-trysail peak halyard
fore-trysail vang
fore-uard
fore-vouched
fore-wind
fore-wit
forearm smash
forecastle deck
forecastle hand
forecastle hatch
forecastle head
forecastle netting
forecastle rail
forecastle scuttle
forecastle watch
foredoomed hope
foregone conclusion
foreground detail
forehand shaft
forehand shooting
foreign accent
foreign affairs
foreign aid
foreign bill
foreign body
foreign correspondent
foreign devil
foreign element
foreign exchange
foreign influx
foreign intruder
foreign intrusion
foreign legion
foreign loan
foreign minister
foreign ministry
foreign mission
foreign money
foreign office
foreign policy
foreign secretary
foreign securities
foreign service
foreign service officer
foreign threat
foreign-aid
foreign-appearing
foreign-born
foreign-bred
foreign-built
foreign-flag
foreign-language dictionary
foreign-language study
foreign-looking
foreign-made
foreign-manned
foreign-owned
foreign-speaking
forelock hook
foreman of the jury
forenoon watch
forensic address
forensic chemistry
forensic jurisprudence
forensic medicine
forensic psychiatry
foreroyal backstay
foreroyal brace
foreroyal lift
foreroyal mast
foreroyal shroud
foreroyal stay
foreroyal studding sail
foreroyal yard
foreroyal-studding-sail boom
forest conservation
forest court
forest cover
forest dweller
forest fire
forest fire fighter
forest floor
forest fly
forest god
forest gods
forest green
forest gum
forest horse
forest keeper
forest land
forest mahogany
forest management
forest oak
forest officer
forest peat
forest pig
forest preserve
forest pygmy
forest ranger
forest red gum
forest reserve
forest school
forest sheriff
forest spirit
forest tent caterpillar
forest tupelo
forest type
forest warden
forest white
forest-belted
forest-born
forest-bosomed
forest-bound
forest-bred
forest-clad
forest-covered
forest-crowned
forest-dwelling
forest-felling
forest-frowning
forest-grown
forest-rustling
forever and a day
forever and aye
forfeit your good opinion
forge ahead
forge blower
forge furnace
forge furnaceman
forge hammerman
forge pressman
forge roller
forge shearer
forge slinger
forked-headed
forked-tailed
forklift truck
forlorn hope
forlorn of
form a conviction
form a line
form a mental picture of
form a part of
form a series
form a unity
form a whole
form an estimate
form an opinion
form board
form class
form drag
form factor
form four
form fours
form genus
form ideas
form letter
form master
form of address
form of government
form of service
form of speech
form of worship
form quotient
form species
form squares
form stop
form the foundation of
form word
form-
form-establishing
form-fitting
form-function unit
form-giving
form-giving cause
form-relieve
form-revealing
formal agreement
formal cause
formal clothes
formal contract
formal contrast
formal dress
formal fallacy
formal language
formal logic
formal observance
formal speech
formal visit
formal written language
formatio reticularis
formation flying
formative element
formed of
former times
formic acid
formic aldehyde
formidable defenses
forming a part of
forming die
forming press
forming punch
formless darkness
formo-
formolite number
formolite reaction
forms of
forms of divination
formulated belief
formyl group
formyl radical
forsake the world
forsaking of the world
forswear speaking
forswear speech
forswear violence
forswear yourself
fort royal
forte-piano
fortes fortuna juvat
forth of
forth putting
fortification agate
fortified flour
fortified milk
fortified tunnel
fortified wine
fortunate outcome
fortune cookie
fortune hunter
fortune's child
fortune's favor
fortune's favorite
fortune's fool
fortune-hunter
fortune-hunting
fortune-tell
fortune-teller
fortune-telling
forty hours
forty machine
forty ways from Sunday
forty winks
forty-acre
forty-eight
forty-eighth
forty-eighthth
forty-eighththmos
forty-fifth
forty-first
forty-five
forty-foot
forty-four
forty-fourth
forty-knot
forty-legged
forty-mile
forty-nine
forty-niner
forty-ninth
forty-one
forty-pound
forty-second
forty-seven
forty-seventh
forty-six
forty-sixth
forty-skewer
forty-spot
forty-third
forty-three
forty-ton
forty-two
forty-year
forward bias
forward bridge
forward deck
forward delivery
forward echelon
forward exchange
forward look
forward motion
forward observer
forward pass
forward quotation
forward roll
forward transfer resistance
forward-bearing
forward-creeping
forward-flowing
forward-looking
forward-pressing
forward-turned
forwarding agent
fossil copal
fossil footprint
fossil fuel
fossil gum
fossil ivory
fossil man
fossil mud crack
fossil oil
fossil ore
fossil print
fossil resin
fossil resins
fossil sea water
fossil turquoise
fossil wax
fossil word
foster a belief
foster an idea
foster babe
foster brother
foster care
foster child
foster dam
foster daughter
foster father
foster home
foster in the mind
foster land
foster milk
foster mother
foster nurse
foster parent
foster sire
foster sister
foster son
foster the hope
foster-brother
foster-child
foster-father
foster-mother
foster-nurse
foster-sister
foster-son
foul anchor
foul ball
foul breath
foul invective
foul language
foul line
foul matter
foul odor
foul out
foul play
foul pole
foul shot
foul the anchor
foul tip
foul up
foul weather
foul wind
foul your own nest
foul-breathed
foul-browed
foul-faced
foul-handed
foul-looking
foul-minded
foul-mindedness
foul-mouthed
foul-reeking
foul-smelling
foul-spoken
foul-tasting
foul-tongued
foul-up
foul-weather suit
fouled anchor
fouled up
fouled-up
found object
found on
found wanting
foundation course
foundation cream
foundation garment
foundation plate
foundation stone
foundation stop
founded on
founded upon a rock
founder's type
founders' shares
founders' type
founding father
foundling hospital
foundry facing
foundry iron
foundry press
foundry proof
foundry scrap
foundry type
fountain grass
fountain moss
fountain of youth
fountain pen
fountain plant
fountain runner
fountain shell
fountain syringe
fountain tree
four and twenty
four bits
four corners of the earth
four flush
four freedoms
four horsemen
four hundred
four o' clock
four o'cat
four o'clock
four of a kind
four old cat
four questions
four-a-cat
four-acre
four-bagger
four-ball
four-ball match
four-bit
four-bottom plow
four-cant
four-cent
four-centered
four-centered arch
four-channel stereo system
four-color
four-color press
four-color problem
four-color process
four-colored
four-colour
four-cornered
four-coupled
four-cutter
four-cycle
four-cylindrical
four-cylinder
four-cylindered
four-day
four-deal bridge
four-deck
four-decked
four-decker
four-dimensional
four-dimensional geometry
four-dimensional space
four-dimensioned
four-dollar
four-edged
four-em space
four-eyed
four-eyed fish
four-eyed opossum
four-eyes
four-faced
four-figured
four-fingered
four-flowered
four-flush
four-flusher
four-flushing
four-foot
four-foot octave
four-foot stop
four-footed
four-footed butterfly
four-footer
four-four time
four-gallon
four-grain
four-gram
four-gun
four-hand
four-handed
four-hander
four-headed
four-horned
four-horse
four-horsed
four-hour
four-hours
four-hundred-day clock
four-in-hand
four-in-hand coach
four-in-hand etc
four-in-hand tie
four-inch
four-leaf
four-leaf clover
four-leafed
four-leaved
four-leaved grass
four-legged
four-letter
four-letter word
four-lettered
four-line
four-line octave
four-lined
four-lobed
four-masted
four-masted bark
four-masted brig
four-master
four-minute
four-minute man
four-month
four-o’clock
four-oar
four-oared
four-o’clock
four-o’clock family
four-ounce
four-part
four-part diaphony
four-part flask
four-part harmony
four-part time
four-percenter
four-phase
four-place
four-ply
four-post
four-posted
four-poster
four-poster bed
four-pound
four-quarter
four-rayed
four-ring
four-roomed
four-rowed
four-rowed barley
four-second
four-shilling
four-sided
four-spined
four-spot
four-spotted
four-square
four-star general
four-storied
four-story
four-stranded
four-stringed
four-striped
four-striper
four-stroke
four-stroke cycle engine
four-stroke-cycle
four-tailed bandage
four-three-two-one rule
four-time
four-times-accented
four-tined
four-toed
four-toes
four-ton
four-tooth
four-up etc
four-way
four-way cock
four-way switch
fowl spirochaetosis
fowl spirochetosis
fowl tick
fowl typhoid
fowling piece
fowling-piece
fowls of the air
fox and geese
fox bat
fox bolt
fox brush
fox docken
fox dog
fox fire
fox geranium
fox goose
fox grape
fox grass
fox hair
fox hunt
fox hunter
fox hunting
fox key
fox lathe
fox light
fox moth
fox plum
fox poison
fox rose
fox shark
fox snake
fox sparrow
fox squirrel
fox terrier
fox trot
fox wedge
fox wolf
fox-colored
fox-faced
fox-fire
fox-flove
fox-fur
fox-furred
fox-hunt
fox-hunting
fox-like
fox-nosed
fox-skinned
fox-trot
fox-trotted
fox-trotting
fox-visaged
foxlace beardtongue
foxtail cactus
foxtail grass
foxtail lily
foxtail millet
foxtail pine
foxtail saw
foxtail wedge
foxtail wedging
foxter-leaves
fps units
fra diavolo
fractional currency
fractional distillation
fractional lot
fractional note
fractional-pitch
fractocumulus cloud
fracture one
fragile health
fragmentation bomb
fragmentation grenade
fragrance control
fragrant as new-mown hay
fragrant sumac
fragrant weed
frail-cat
frailty-cat
frail health
frail humanity
frail sister
frail-bodied
frame aerial
frame assembler
frame bar
frame bend
frame boat
frame brazer
frame breaker
frame breaking
frame bridge
frame builder
frame building
frame cleaner
frame construction
frame cottage
frame dam
frame door
frame doubler
frame dresser
frame driller
frame dwelling
frame finisher
frame fitter
frame gate
frame house
frame line
frame lumber
frame maker
frame making
frame molding
frame of mind
frame of reference
frame plate
frame saw
frame sawyer
frame set
frame space
frame structure
frame stud
frame timber
frame trestle
frame turner
frame up
frame vise
frame wall
frame worker
frame-house
frame-made
frame-up
frame-work
frames of reference
framing chisel
framing number
framing square
framing table
fran tireur
franc-archer
franc-tireur
franchise clause
franchise tax
franco-
free abstractionist
free admission
free agent
free air
free alongside ship
free alongside vessel
free alternating current
free and clear
free and common socage
free and easy
free as a bird
free as air
free as the wind
free ascent
free association
free association test
free atmosphere
free balloon
free ballooning
free bench
free bid
free capital
free choice
free church
free churchman
free citizen
free city
free coinage
free companion
free company
free competition
free cost
free course
free decision
free delivery
free diver
free diving
free economy
free electron
free electron theory of metals
free energy
free enterprise
free enthalpy
free expansion
free expressionism
free expressionist
free fall
free flight
free soil
free speech
free spirit
free state
free thought
free throw
free throw line
free ticket
free time
free trade
free trade area
free trader
free translation
free up
free variable
free variation
free verse
free vote
free will
free with your money
free world
free yourself
free yourself from
free zone
free-acting
free-air ionization chamber
free-armed
free-associate
free-associated
free-associating
free-banking
free-bestowed
free-blown
free-board
free-boot
free-bored
free-born
free-bred
free-burning
free-denizen
free-enterprise
free-enterprise economy
free-enterprise system
free-falling
free-floating
free-floating anxiety
free-flowering
free-flowing
free-trade
free-trader
free-trading
free-tradist
free-versifier
free-willed
free-willer
free-working
freeboard deck
freeboard length
freedom abused
freedom fighter
freedom from fear
freedom from illusion
freedom from want
freedom from war
freedom of speech
freedom of speech and expression
freedom of the city
freedom of the press
freedom of the seas
freedom of worship
freedom ride
freedom rider
freehand drawing
freeing port
freewill baptist
freewill offering
freeze on
freeze out
freeze over
freeze solid
freeze the blood
freeze to
freeze to death
freeze your balls off
freeze-dried
freeze-dry
freeze-drying
freeze-out
freeze-up
freezer burn
freezer locker
freezer ship
freezing cold
freezing drizzle
freezing machine
freezing mixture
freezing point
freezing process
freezing rain
freezing weather
freezing wind
freezing works
freight agent
freight bill
freight boat
freight broker
freight canvasser
freight car
freight clerk
freight conductor
freight density
freight elevator
freight engine
freight forwarder
freight handler
freight house
freight insurance
freight locomotive
freight mileage
freight note
freight rate
freight receipt
freight room
freight shed
freight steamer
freight tariff
freight ton
freight traffic
freight train
freight transport
freight truck
freight vessel
freight wagon
freight with
freight-mile
freighted with doom
freighted with significance
french bulldog
french chalk
french chop
french crown
french door
french dressing
french endive
french fry
french heel
french horn
french leave
french pastry
french polish
french telephone
french toast
french window
french-like
frenzy of desire
frenzy of lust
frequency band
frequency changer
frequency control
frequency converter
frequency curve
frequency distribution
frequency divider
frequency doubler
frequency histogram
frequency indicator
frequency meter
frequency modulation
frequency multiplier
frequency polygon
frequency recorder
frequency relay
frequency spectrum
frequency swing
frequency width
frequency-modulated
frequent as a customer
fresco painting
fresco secco
fresh air
fresh as April
fresh as a daisy
fresh as a rose
fresh as the morning dew
fresh breeze
fresh foods
fresh gale
fresh start
fresh up
fresh water
fresh wind
fresh-baked
fresh-boiled
fresh-caught
fresh-cleaned
fresh-coined
fresh-colored
fresh-complexioned
fresh-cooked
fresh-cropped
fresh-cut
fresh-drawn
fresh-faced
fresh-fallen
fresh-killed
fresh-laid
fresh-leaved
fresh-looking
fresh-made
fresh-painted
fresh-picked
fresh-run
fresh-slaughtered
fresh-washed
fresh-water
fresh-water drum
fresh-water nymph
fresh-water sailor
fresh-watered
freshen the air
freshen up
freshman week
freshman year
freshwater drum
freshwater lake
freshwater stay
fresno scraper
fret and fume
fret at
fret saw
fret-sawing
friar rush
friar skate
friar's balsam
friar's chair
friar's lantern
fribble away
friction ball
friction band
friction belt
friction block
friction board
friction brake
friction breccia
friction clamp
friction clutch
friction composition
friction cone
friction disk
friction drill
friction drive
friction electricity
friction factor
friction fremitus
friction fuse
friction gear
friction gearing
friction glazing
friction head
friction horsepower
friction layer
friction loss
friction machine
friction match
friction pile
friction powder
friction primer
friction pulley
friction ring
friction roller
friction rub
friction saw
friction slip
friction socket
friction sound
friction tape
friction test
friction top
friction tube
friction washer
friction wheel
friction-head
friction-saw
friction-sawed
friction-sawing
friction-sawn
friction-tight
frictional electricity
frictional resistance
frictional rustling
fried eggs
fried rice
friend at court
friend in court
friend in need
friend indeed
friend of the court
friend of your bosom
friendly chat
friendly relations
friendly society
friendly talk
friendly with
friends with
frieze board
frieze coat
frieze rail
frieze-coated
frigate bird
frigate mackerel
frigate pelican
frigate-built
fright disease
fright neurosis
frighten from your propriety
frighten off
frighten out of your senses
frighten out of your wits
frightened out of your wits
frightening off
frightful bore
frightfully rich
frigid purgatorial fires
frigid zone
frill shark
frill-bark
frill-barking
frill-like
frilled lizard
frills and furbelows
fringe area
fringe benefit
fringe benefits
fringe bush
fringe cup
fringe moss
fringe tree
fringe-bell
fringe-toed lizard
fringe-tree bark
fringed brome
fringed galax
fringed gentian
fringed orchis
fringing forest
fringing reef
fringe aileron
frit fly
frit-fly
frith-guild
frith-stool
fritter away
fritter away time
fritto misto
frivol away
frivolity-proof
frizzle disease
frizzle fowl
frock coat
frock-coat
frog boot
frog cheese
frog clock
frog crab
frog fly
frog grass
frog hair
frog kick
frog legs
frog lily
frog number
frog pad
frog plant
frog shell
frog spawn
frog spit
frog spittle
frog's-bit
frog-belly
frog-bit
frog-eyed
frog-fish
frog-march
frog-mouth
frog-spawn
groebbit family
from A to Z
from A to izzard
from Dan to Beersheba
from Missouri
from afar
from age to age
from all points of the compass
from all quarters
from away back
from bad to worse
from beginning to end
from better to worse
from clew to earing
from cover to cover
from day to day
from door to door
from egg to apples
from end to end
from everlasting to everlasting
from every quarter
from everywhere
from first to last
from force of habit
from habit
from hand to hand
from hand to mouth
from head to foot
from hell to breakfast
from here in
from here on
from here out
from here to eternity
from here to the back of beyond
from his own mouth
from home
from hour to hour
from information received
from interested motives
from me to you
from memory
from necessity
from notice given
from now on
from now on in
from now till doomsday
from on high
from out in left field
from pillar to post
from pole to pole
from rags to riches
from scratch
from selfish motives
from side to side
from soup to nuts
from stem to stern
from that cause
from that time
from the beginning
from the bottom of your heart
from the cradle to the grave
from the first
from the foundations
from the four winds
from the ground up
from the heart
from the horse's mouth
from the housetops
from the lips of
from the rolls
from the sticks
from the womb to the tomb
from the word 'go'
from then on
from this moment on
from this point
from this time
from this time forward
from time immemorial
from time out of mind
from time to time
from top to bottom
from top to toe
from what cause
from what you can gather
from your angle
from your book
from your heart
from your standpoint
from your viewpoint
fromage a la pie
fromage blanc
front a front
front bench
front court
frost grape
frost gray
frost heave
frost heaving
frost insurance
frost lamp
frost line
frost mist
frost over
frost plant
frost point
frost ring
frost signal
frost smoke
frost snipe
frost snow
frost valve
frost-beaded
frost-bit
frost-bite
frost-bitten
frost-blite
frost-bound
frost-burnt
frost-chequered
frost-concocted
frost-congealed
frost-covered
frost-crack
frost-fettered
frost-firmed
frost-free
frost-hardy
frost-hoar
frost-kibed
frost-nip
frost-nipped
frost-pure
frost-rent
frost-ridge
frost-riven
frost-tempered
frost-work
frosted glass
frosted heart
frosted lens
frosted shake
frostweed aster
frosty green
frosty mildew
frosty-face
frosty-faced
frosty-mannered
frosty-natured
frosty-spirited
frosty-whiskered
froth at the mouth
froth flotation
froth fly
froth hopper
froth insect
froth spit
froth worm
froth-becurled
froth-born
froth-clad
froth-faced
froth-foamy
frothing at the mouth
frou-frou
frown at
frown down
frown upon
frowned-upon behavior
frowns of fortune
frowzy-headed
frozen assets
frozen custard
frozen daiquiri
frozen dessert
frozen fog
frozen food
frozen foods
frozen in
frozen music
frozen out
frozen pudding
frozen solid
frozen to death
frozen water
frozen-food locker
fructose intolerance
frugal to excess
fruit acid
fruit bar
fruit bark beetle
fruit peddler
fruit peel
fruit picker
fruit picking
fruit pigeon
fruit pit
fruit pitter
fruit preservative
fruit preserver
fruit pudding
fruit raiser
fruit raising
fruit ranch
fruit rot
fruit salad
fruit seller
fruit set
fruit shipper
fruit shop
fruit show
fruit sirup
fruit slicer
fruit sorter
fruit soup
fruit spot
fruit sprayer
fruit spur
fruit stall
fruit stand
fruit strainer
fruit sugar
fruit tart
fruit tree
fruit vendor
fruit vinegar
fruit wood
fruit-bringing
fruit-candying
fruit-drying
fruit-eating
fruit-eating bird
fruit-evaporating
fruit-grower
fruit-growing
fruit-paring
fruit-producing
fruit-tree bark beetle
fruit-tree leaf roller
fruited body
fruits and vegetables
frustum of a pyramid
fry cook
fry-cooker
fry-pan
frying pan
frying-pan
ft-lb
ft-pdl
fu-yang
fuchsia purple
fuchsia red
fuchsia tree
fuchsia-flowered
fuck about
fuck up
fuddle-brained
fuddling cup
fuddling glass
fuddy-duddies
fuddy-duddiness
fuddy-duddy
fudge edge
fudge in
fudge together
fudge up
fudge wheel
fuel additive
fuel cell
fuel dope
fuel element
fuel engineer
fuel engineering
fuel filter
fuel injection
fuel injector
fuel oil
fuel quantity indicator
fuel ship
fuel up
fuel-flow meter
fugae warrant
fugie warrant
fugue form
fugue state
fulfill a short sale
fulfill your duty
fulfill your military obligation
fulfill your role
fulgurant pain
full age
full and by
full authority
full beard
full binding
full blast
full blood
full bloom
full board
full bottom
full bridle
full circle
full color
full consent
full cousin
full denture
full development
full dress
full feather
full fig
full flavor
full force
full frame
full gainer
full gallop
full growth
full hand
full house
full length
full linear group
full load
full lot
full many
full many a time
full many a time and oft
full meal
full measure
full moon
full mouthed
full name
full nelson
full of
full of Dutch courage
full of beans
full of business
full of enthusiasm
full of fight
full of go
full of hate
full of hatred
full of holes
full of hope
full of incident
full of integrity
full of life
full of life and vigor
full of meaning
full of mischief
full of pep
full of piss and vinegar
full of point
full of promise
full of remorse
full of risk
full of sound and fury
full of substance
full of sweet days and roses
full of yourself
full particulars
full permission
full pitch
full power
full powered
full pratique
full professor
full purse
full radiator
full rhyme
full sail
full scope
full score
full sentence
full shot
full size
full skirt
full speed
full speed ahead
full speed astern
full stop
full sun
full swing
full term
full tide
full-charge
full-charged
full-cheeked
full-chested
full-chilled
full-clustered
full-colored
full-crammed
full-cream
full-crew
full-crown
full-cut
full-depth
full-diamond
full-diesel
full-digested
full-distended
full-draught
full-drawn
full-dress
full-dress suit
full-dress uniform
full-dressed
full-dug
full-eared
full-edged
full-exerted
full-extended
full-eyed
full-faced
full-fashioned
full-fashioned stockings
full-fatted
full-feathered
full-fed
full-feed
full-feeding
full-felled
full-fidelity speaker
full-figured
full-finished
full-fired
full-flanked
full-flavored
full-fledged
full-fleshed
full-floating
full-flocked
full-flowering
full-flowing
full-foliaged
full-form
full-formed
full-fortuned
full-fraught
full-freight
full-freighted
full-frontal
full-fronted
full-fruited
full-glowing
full-gorged
full-grown
full-haunched
full-haunched
full-head
full-handed
full-happinessed
full-hard
full-jaunched
full-headed
full-hearted
full-hipped
full-hot
full-jeweled
full-jointed
full-known
full-laden
full-leather
full-leaved
full-length
full-leveled
full-licensed
full-limbed
full-lined
full-lipped
full-load
full-made
full-manned
full-measured
full-minded
full-moon
full-moon maple
full-mouthed
full-mouthedly
full-natured
full-necked
full-nerved
full-opening
full-orbed
full-out
full-page
full-paid
full-panoplied
full-paunched
full-personed
full-pitch
full-pitch winding
full-plumed
full-power
full-powered
full-proportioned
full-pulsing
full-rayed
full-resounding
full-rigged
full-rigged ship
full-rigger
full-ripe
full-ripened
full-roed
full-run
full-sailed
full-scale
full-scantling vessel
full-sensed
full-sharer
full-shouldered
full-shroud
full-size
full-sized
full-skirted
full-souled
full-speed
full-sphered
full-spread
full-stage
full-statured
full-stomached
full-strained
full-streamed
full-strength
full-stuffed
full-summed
full-swelling
full-term
full-throated
full-tide
full-time
full-time worker
full-timed
full-timer
full-to-full
full-toned
full-top
full-trimmed
full-tuned
full-turn stair
full-tushed
full-udderered
full-value
full-voiced
full-volumed
full-wave
full-wave rectification
full-wave rectifier
full-wave rectifier tube
full-way
full-weight
full-weighted
full-whiskered
full-winged
full-witted
fuller's earth
fuller's teasel
fullering tool
fulling mill
fulling stock
fullness of time
fully developed
fully fashioned
fully fledged
fully realized
fulminate against
fulminating compound
fulminating mercury
fulminating powder
fulminic acid
fulvous tree duck
fumaric acid
fumble-fist
fume chamber
fume cupboard
fumed oak
fumes of fancy
fuming nitric acid
fuming sulfuric acid
fuming sulphuric acid
fumitory family
fun and games
fun fair
fun house
fun-fair
fun-filled
fun-loving
fun-seeking
function as
function class
function shift
function space
function word
functional analysis
functional calculus
functional design
functional disease
functional furniture
functional group
functional housing
functional illiteracy
functional illiterate
functional load
functional nervous disorder
functional psychology
functional psychosis
functional representation
functional shift
functional yield
functionally illiterate
functions of
fund-raising dinner
fundamental bass
fundamental colors
fundamental frequency
fundamental idea
fundamental law
fundamental note
fundamental particle
fundamental sequence
fundamental theorem of algebra
fundamental theorem of calculus
fundamental tone
fundamental unit
funded debt
funding system
funeral car
funeral chapel
funeral church
funeral coach
funeral customs
funeral director
funeral establishment
funeral home
funeral march
funeral oration
funeral parlor
funeral parlour
funeral pile
funeral procession
funeral pyre
funeral ring
funeral rites
funeral sermon
funeral service
funeral song
funeral urn
funeral vessel
funerary customs
funerary urn
funerary vessel
fungi-
fungiform papillae
fungo bat
fungus body
fungus bug
fungus disease
fungus gall
fungus gnat
fungus stone
fungus tinder
fungus-covered
fungus-digesting
fungus-proof
funicular railway
funk hole
funk out
funky chicken
funnel breast
funnel chest
funnel cloud
funnel maker
funnel setter
funnel tube
funnel twister
funnel-breasted
funnel-chested
funnel-fashioned
funnel-formed
funnel-necked
funnel-shaped
funnel-web
funny bone
funny business
funny car
funny farm
funny feeling
funny paper
funny story
funny thing
fur bearer
fur beater
fur blocker
fur blower
fur breeder
fur brigade
fur brusher
fur buyer
fur coat
fur farm
fur farmer
fur farming
fur lining
fur salon
fur seal
fur tanner
fur trader
fur trapper
fur trapping
fur trimming
fur-bearing
fur-capped
fur-clad
fur-coated
fur-collared
fur-cuffed
fur-gowned
fur-lined
fur-lined coat
fur-touched
fur-trimmed
fur-trimmed coat
furbish up
furious rabies
furious rage
furious-faced
furl in a body
furl in the bunt
furnace bricklayer
furnace builder
furnace cadmium
furnace calciner
furnace charger
furnace charging
furnace engineer
furnace erector
furnace feeder
furnace fireman
furnace heating
furnace keeper
furnace liner
furnace lining
furnace maker
furnace mounter
furnace oil
furnace regulator
furnace repairer
furnace stoker
furnace tender
furnace tenter
furnace watcher
furnish accommodations
furnish evidence
furnish support
furniture arrangement
furniture broker
furniture carving
furniture designer
furniture enameler
furniture finisher
furniture fitter
furniture japanner
furniture maker
furniture mover
furniture packer
furniture painter
furniture polish
furniture polisher
furniture porter
furniture repairer
furniture store
furniture turning
furniture van
furor epilepticus
furor loquendi
furor uterinus
furr-ahin
furring brick
furring strip
furrow drain
furrow drainage
furrow draining
furrow irrigation
furrow pan
furrow weed
furrow-cloven
furrow-faced
furrow-fronted
furry creatures
further education
further look
further yourself
fury of desire
fury of lust
fury-driven
fury-haunted
fury-moving
furze lark
furze wren
furze-clad
fusarium wilt
fusco-
fusco-ferruginous
fusco-piceous
fusco-testaceous
fuse block
fuse box
fuse gauge
fuse link
fuse metal
fused quartz
fused silica
fusel oil
fusi-
fusible alloy
fusible metal
fusing disk
fusion bomb
fusion point
fusion reaction
fusion reactor
fusion welding
fuss and feathers
fuss at
fuss up
fuss-budget
fuss-budgety
fusty-framed
fusty-looking
fusty-rusty
futtock band
futtock chain
futtock hoop
futtock plate
futtock shroud
futtock staff
futtock stave
future event
future grain
future life
future perfect
future price
future prospects
future state
future tense
future time
future-minded
futures contract
futurity race
futurity stakes
fuzz cut
fuzz up
fuzz-ball
fuzzy memory
fuzzy-guzzy
fuzzy-haired
fuzzy-headed
fuzzy-legged
fuzzy-wuzzy
g clef
g sol re ut
g suit
g-cal
g-man
g-string
gab pin
gabbro-porphyrite
gaberlunzie-man
gable end
gable roof
gable wall
gable window
gable-bottom
gable-bottom car
gable-end
gable-ended
gable-roofed
gable-shaped
gable-walled
gable-windowed
gaboon mahogany
gad about
gad so
gad-bee
gad-fly
gadget bag
gaff sail
gaff topsail
gaff-headed sail
gaff-rigged
gaff-topsail
gaff-topsail catfish
gaff-topsail pompano
gag law
gag on
gag order
gag press
gag rein
gag resolution
gag rule
gag runner
gag swivel
gag writer
gag-bit
gag-check
gag-reined
gag-tooth
gaga over
gage green
gage of battle
gain a footing
gain a good knowledge of
gain a hearing
gain a hold upon
gain a thorough knowledge of
gain admittance
gain altitude
gain by
gain command of
gain entree
gain ground
gain influence
gain knowledge
gain knowledge of
gain on
gain over
gain recognition
gain sharing
gain strength
gain the ascendancy
gain the confidence of
gain the day
gain the friendship of
gain the upper hand
gain the whip hand
gain time
gain to windward of
gain understanding of
gain upon
gain weight
gain your end
gain your ends
gain your liberty
gain-
gain-giving
gaining altitude
gaining head
gaining machine
gaining twist
gaited horse
gaiter tree
gaiter-in
gal Friday
gala affair
gala day
galactic-
galactic circle
galactic cluster
galactic coordinates
galvanic skin response
galvanized iron
galvano-
gam-
gama grass
gamba bass
gamba goose
gamba stop
gamben bass
gamble away
gamble on
gamble with
gambling chance
gambling debt
gambling den
gambling device
gambling hall
gambling hell
gambling house
gambling odds
gambling table
gambling wheel
gambo goose
gambo hemp
gamboge yellow
gambrel roof
gambrel stick
gambrel-roofed
game act
game bag
game beast
game bird
game cart
game chips
game debt
game dog
game farmer
game fish
game fowl
game hawk
game hunter
game hunting
game law
game laws
game loser
game of chance
game of skill
game pie
game plan
game point
game preserve
game refuge
game reserve
game room
game sanctuary
game season
game shooting
game theory
game to the backbone
game to the end
game to the last
game warden
game-cock
game-destroying
game-fowl
game-law
gamelan orchestra
games all
games master
games mistress
games of chance
games theory
games-player
gamet-
gameto-
gaming contract
gaming house
gaming room
gaming table
gaming-proof
gamma acid
gamma decay
gamma distribution
gamma function
gamma globulin
gamma infinity
gamma iron
gamma moth
gamma nasal
gamma radiation
gamma radiator
gamma ray
gamma ray counter
gamma rays
gammon iron
gammon-faced
gammon-visaged
gamo-
gander month
gander pull
gandy dancer
gang along
gang around
gang cask
gang center
gang cultivator
gang drill
gang edger
gang hook
gang mill
gang plough
gang plow
gang press
gang punch
gang saw
gang sawyer
gang switch
gang tool
gang tooth
gang up
gang up on
gang up with
gang war
gang warfare
gang week
gang-board
gang-cask
gang-days
gang-flower
gang-plank
gang-week
ganging plea
gangle-shanked
gangli-
ganglion cell
ganglion crest
ganglionic blocking agent
gangway board
gangway ladder
gannet paper
gantry crane
gantry scaffold
gaol delivery
gap lathe
gap-frame press
gap-toothed
gape for
gape-gaze
gape-seed
gapping chasm
gaping depths
gapped scale
gar pike
gar-pike
garab tree
garage sale
garam masala
garand rifle
garb willow
garbage barrel
garbage burner
garbage can
garbage cart
garbage collector
garbage conveyer
garbage destructor
garbage digestor
garbage drier
garbage dump
garbage grease
garbage incinerator
garbage man
garbage pail
garbage plant
garbage reducer
garbage tank
garbage tankage
garbage truck
garbage wagon
garble accounts
garboard plank
garboard strake
garbutt rod
garde du corps
garde-collet
garde-du-corps
garde-feu
garde-feux
garde-manger
garde-reins
garden apartment
garden balm
garden balsam
garden bond
garden bugloss
garden burnet
garden buttercup
garden camomile
garden cart
garden catchfly
garden celandine
garden centre
garden chafer
garden chair
garden cicely
garden city
garden columbine
garden cress
garden culture
garden cypress
garden egg
garden flea
garden flea hopper
garden fly honeysuckle
garden frame
garden garth
garden geranium
garden ginger
garden glass
garden heliotrope
garden hoe
garden hose
garden house
garden huckleberry
garden hyssop
garden lemon
garden mint
garden mold
garden nasturtium
garden nightshade
garden of the Gods
garden of the Hesperides
garden orach
garden orpine
garden party
garden path
garden patience
garden pepper
garden pepper cress
garden peppergrass
garland crab apple
garland flower
garland larkspur
garlic bread
garlic butter
garlic germander
garlic mustard
garlic oil
garlic pear
garlic powder
garlic sage
garlic salt
garlic shrub
garlic tree
garment center
garment maker
garment making
garment parts
garment presser
garner of facts and fancies
garner up
garnet brown
garnet hinge
garnet jade
garnet lac
garnet paper
garnet-breasted
garnet-colored
garnet-red
garnish bolt
garnishee order
garrison cap
garrison finish
garrison flag
garrison house
garrison prisoner
garrison rations
garrison school
garrison state
garter belt
garter blue
garter snake
garter stitch
garter stockings
garter-blue
garth cress
gas analyzer
gas attack
gas bacillus
gas balloon
gas battery
gas bender
gas black
gas bladder
gas bomb
gas buoy
gas burner
gas cap
gas carbon
gas cell
gas chamber
gas chromatography
gas coal
gas coke
gas company
gas concrete
gas conduction
gas constant
gas counter
gas cutting
gas detector
gas disease
gas electrode
gas engine
gas engineer
gas engineering
gas equation
gas explosion
gas field
gas filler
gas fitter
gas fitting
gas fittings
gas fixture
gas focusing
gas furnace
gas gangrene
gas generator
gas grenade
gas harmonicon
gas heat
gas heater
gas heating
gas helmet
gas jet
gas lamp
gas law
gas laws
gas lighter
gas lime
gas liquor
gas log
gas machine
gas main
gas mantle
gas mask
gas meter
gas motor
gas oil
gas oven
gas phlegmon
gas phototube
gas pipe
gas plant
gas plate
gas pliers
gas poker
gas polarization
gas producer
gas propulsion
gas range
gas refrigeration
gas refrigerator
gas ring
gas sand
gas separator
gas shaft
gas shell
gas spectrum
gas spurts
gas station
gas stove
gas tank
gas tap
gas tar
gas thermometer
gas thread
gas trap
gas tube
gas turbine
gas turbine engine
gas turbine jet engine
gas up
gas vent
gas warfare
gas washer
gas water
gas welder
gas welding
gas well
gas zone
gas-absorbing
gas-bag
gas-burning
gas-charged
gas-check
gas-cooled reactor
gas-delivering
gas-discharge lamp
gas-driven
gas-electric
gas-filled
gas-filled tube
gas-fired
gas-fitter
gas-fitting
gas-heat
gas-heated
gas-laden
gas-lampy
gas-light
gas-liquid chromatography
gas-operated
gas-oxygen
gas-plant
gas-producing
gas-propelled
gas-resisting
gas-retort
gas-shaft hood
gas-testing
gaseous envelope
gaseous environment
gaseous medium
gaseous nebula
gaseous state
gash vein
gash-gabbit
gasligh paper
gasoline engine
gasoline gas
gasoline lantern
gasoline locomotive
gasoline propulsion
gasoline shovel
gasoline stove
gasoline tax
gasoline truck
gasoline-electric
gasoline-propelled
gaster-
gastr-
gastraea theory
gastric antacid
gastric digestion
gastric glands
gastric juice
gastric lavage
gastric ulcer
gastro-
gastro-omentual
gastrocolic omentum
gastrohepatic omentum
gastrointestinal disease
gastrointestinal tract
gat-toothed
gate bill
gate channel
gate hinge
gate leg
gate money
gate net
gate pin
gate receipts
gate road
gate shear
gate shears
gate table
gate tower
gate valve
gate wheel
gate, the
gate-crash
gate-crasher
gate-keeper
gate-leg
gate-leg table
gate-legged
gate-legged table
gate-netting
gate-post
gateleg table
gatelegged table
gather around
gather courage
gather flesh
gather head
gather in
gather into barns
gather knowledge
gather learning
gather materials
gather to yourself
gather together
gather up
gather way
gather your thoughts
gathered to his fathers
gathering clouds
gathering coal
gathering evidence
gathering hoop
gathering iron
gathering locomotive
gathering machine
gathering of the clouds
gathering pallet
gathering peat
gathering place
gathering reel
gathering ring
gathering rod
gathering shot
gathering table
gatling gun
gaub line
gauze lake
gaudy-day
gaudy-green
gaufre iron
gauge block
gauge board
gauge cock
gauge concussion
gauge die
gauge door
gauge glass
gauge increment
gauge knife
gauge lath
gauge lathe
gauge line
gauge notch
gauge pile
gauge pin
gauge plate
gauge point
gauge saw
gauge stick
gauge stuff
gauge tolerance
gauge weir
gauge wheel
gauged pile
gauging plaster
gaultheria oil
gaunt-bellied
gauze ring
gauze tree
gauze weave
gauze-winged
gavel bread
gavel corn
gavel earth
gavel swine
gay as a lark
gay dance
gay deceiver
gay dog
gay liberation
gay-beseen
gay-chirping
gay-colored
gay-feather
gay-flowered
gay-glancing
gay-green
gay-hued
gay-humored
gay-looking
gay-motleyed
gay-painted
gay-seeming
gay-smiling
gay-spent
gay-spotted

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  13758
gee whillikins
gee whiz
gee whizz
gee-gee
gee-haw
gee-throw
gee-up
gefilte fish
gefilte fish
gefullte fish
gefulte fish
gegen-ion
gehockte leber
geigen principal
geiger counter
gieger tree
gieger-muller tube
geil fine
geisha girl
gel filtration
gel mineral
gelada baboon
gelatin dynamite
gelatin emulsion
gelatin filter
gelatin maker
gelatin molder
gelatin process
gelatin slide
gelatin-coated
gelatino silver bromide
gelatino-
gem carver
gem cutter
gem cutting
gem designer
gem engraver
gem fancier
gem grinder
gem jade
gem list
gem of the first water
gem peg
gem setter
gem stick
gem stone
gem stones
gem-bearing
general election
general expenses
general headquarters
general hospital
general idea
general information
general knowledge
general lien
general linguistics
general medicine
general mortgage bond
general obligation bond
general of the air force
general of the armies
general of the army
general officer
general order
general orders
general paralysis
general paralysis of the insane
general paresis
general partner
general partnership
general post office
general practice
general practitioner
general precession
general principle
general prior
general public
general reconnaissance
general reference map
general rule
general run
general semantics
general servant
general sessions
general solution
general staff
general store
general strike
general studies
general surgery
general theory of relativity
general truth
general uprising
general voice
general war
general will
generalduty nurse
general-purpose
generalized coordinates
generalized other
generalized proposition
generally accepted
generally admitted
generally capable
generally speaking
generate electricity
generating station
generating tone
generation gap
generation of man
generative cell
generative grammar
generative semantics
generator gas
generator unit
generic name
genetic resemblance
genous-hearted
genethliac astrology
-genetic code
-genetic disease
-genetic drift
-genetic engineering
-genetic fallacy
-genetic individual
-genetic method
-genetic psychology
-genetically related
geneva bands
geneva convention
geneva cross
geneva gown
-genio-
genitive absolute
-genito-
genius domus
genius familiae
genius for
-genius loci
-genius tutelae
-geno-
genoa foresail
genoa jib
genre painter
genre painting
gens d'armerie
genteel comedian
genteel comedy
genteel poverty
gentian blue
gentian family
gentian root
gentian violet
gentianic acid
gentle-falcon
gentility manners
gentility manners
gentil-
gentisic acid
gentle art
gentle as a lamb
gentle breeze
gentle contact
gentle craft
gentle hint
gentle melancholy
gentle sex
gentle sleep
gentle slope
gentle wind
gentle-born
gentle-bred
gentle-browed
gentle-eyed
gentle-handed
gentle-handedly
gentle-handedness
gentle-looking
gentle-mannered
gentle-manneredly
gentle-manneredness
gentle-minded
gentle-mindedly
gentle-mindedness
gentle-natured
gentle-naturedly
gentle-naturedness
gentle-spoken
gentle-spokenly
gentle-spokenness
gentle-voiced
gentle-voicedly
gentle-voicedness
gentleman farmer
gentleman friend
gentleman of fortune
gentleman of leisure
gentleman of the press
gentleman of the road
gentleman's agreement
gentleman's gentleman
gentleman's lounge
gentleman's roo
gentleman-adventurer
gentleman-agent
gentleman-at-arms
gentleman-beggar
gentleman-cadet
gentleman-commoner
gentleman-covenanter
gentleman-dependent
gentleman-digger
gentleman-farmer
gentleman-jailer
gentleman-jockey
gentleman-lackey
gentleman-lodger
gentleman-murderer
gentleman-pensioner
gentleman-porter
gentleman-priest
gentleman-ranker
gentleman-recusant
gentleman-rider
gentleman-scholar
gentleman-sewer
gentleman-tradesman
gentleman-usher
gentleman-vagabond
gentleman-volunteer
gentleman-waiter
gentlemen's agreement
gentlemen-at-arms
gentlemen-commoners
gentlemen-farmers
gentlemen-pensioners
gento penguin
genu valgum
genuine object
genus Homo
geo probe
geo-
geo-navigation
geocentric longitude
geocentric parallax
geodesic dome
geodesic geometry
geodesic line
geodetic engineer
geodetic engineering
geodetic longitude
geodetic satellite
geodetic survey
geodetic surveying
geographic determinism
geographic environment
geographic longitude
geographic range
geographical determinism
geographical dictionary
geographical mile
geographically limited
geoid-spheroid
geoid-spheroid balance
geologic time
geological chemistry
geological dictionary
geological engineer
geological engineering
geological time periods
geometric figure
geometric isomerism
geometric mean
geometric pace
geometric progression
geometric proportion
geometric ratio
geometric series
geometrical horizon
geometrical lathe
geometrical optics
geometrical pace
geometrical pitch
geometrical progression
geometrical stair
geophysical satellite
georgia pine
geostrophic wind
geotectonic geology
geranium creeper
geranium family
geranium lake
geranium oil
geranium pink
geriatric disease
germs breeder
germs cell
germs destroyer
germs disease
germs disk
germs gland
germs layer
germs nucleus
germs pathology
germs peg
germs plasm
germs plasma
germs pore
germs spot
germs stock
germs theory
germs track
germs tube
germs warfare
germs-forming
german baptist brethren
german cotillion
german measles
german shepherd
german silver
germander chickweed
germander sage
germander speedwell
germanium crystal triode
germanium oxide
germanium triode
germano-
germicidal lamp
germinal area
germinal disc
germinal disk
germinal imagination
germinal vesicle
germinate from
geront-
geronto-
gerrymandered district
gerund grinder
gerund grindery
gerund grinding
gerund phrase
ges-warp
gestalt psychology
gestalt therapy
gestatorial chair
gesture calligraphist
gesture calligraphy
gesture language
gesture painting
get a bang out of
get a bead on
get a boot out of
get a break
get a bun on
get a charge out of
get a corner on
get a cropper
get a fix
get a foothold
get a footing
get a glimpse of
get a good pennyworth
get a head start
get a hold on
get a hustle on
get a kick out of
get a leg up on
get a lift out of
get a load of
get a loan
get a move on
get a navigational fix
get a noseful of
get a purchase
get a reaction
get a reading
get a response
get a rise out of
get a sense
get a sounding
get a stranglehold on
get a whiff of
get a wiggle on
get a wrong impression
get about
get abroad
get acquainted
get acquire
get across
get afloat
get ahead
get ahead of
get all balled up
get all bollixed up
get all in a lather
get all snarled up
get all tangled up
get all wound up
get along
get along in years
get along on
get along with
get along with you
get along without
get an agent
get an earful
get an eyeful of
get an impression
get an income
get anywhere
get around
get at
get at the ear of
get away
get away from
get away with
get away with it
get away with murder
ger back
get back at
get back in shape
get back to earth
get before
get behind
get better
get bogged down
get busy
get by
get by heart
get by hook or by crook
get by on
get by osmosis
get by rote
get chummy with
get clear of
get cold feet
get cozy with
get cracking
get cutting
get done
get down
get down cold
get down from your high horse
get down on your hunkers
get down on your knees
get down on your marrowbones
get down pat
get down to brass tacks
get down to business
get down to cases
get down to nuts and bolts
get drunk
get even
get even with
get excited
get excited about
get exposure
get for free
get for your pains
get free
get free of
get fresh
get from
get funny
get going
get heads together
get hep to
get hers
get high
get high on
get his
get hitched
get hold of
get hold of an idea
get hold of yourself
get home free
get hot under the collar
get huffy
get hung up
get in
get in a bind
get in a box
get in a hole
get in a jam
get in a mess
get in a pincers
get in a rut
get in a word edgewise
get in back of
get in behind
get in connection with
get in contact with
get in formation
get in front of
get in good with
get in hot water
get in line
get in on the ground floor
get in the act
get in the family way
get in the good graces of
get in the harvest
get in the soup
get in the swim
get in there
get in touch with
get in with
get in wrong
get in your hair
get in your own way
get income
get into
get into a dither
get into a pucker
get into a scrape
get into a stew
get into a swivet
get into a tizzy
get into debt
get into favor
get into harness
get into line
get into mischief
get into the way of
get into trouble
get into your clutches
get into your grasp
get into your head
get into your hold
get into your possession
get into your thick head
get it
get it coming and going
get it in the neck
get it into your head
get it off your chest
get it off your mind
get it out of your system
get it out on
get it over
get it over with
get justice
get killed
get knowledge
get left
get letter-perfect
get leverage
get loose
get lost
get mad
get married
get miffed
get mired
get mired down
get moving
get next to
get next to someone
get no better fast
get no place fast
get nowhere
get off
get off a joke
get off cheap
get off on the right
get off scot-free
get off the ground
get off the subject
get off the track
get off to a good start
get off your back
get on
get on credit
get on film
get on good terms with
get on in the world
get on in years
get on out
get on swimmingly
get on the ball
get on the bandwagon
get on the cuff
get on the good side of
get on the in with
get on the job
get on the right side of
get on the wagon
get on the water wagon
get on tick
get on to
get on top
get on trust
get on well
get on well with
get on with
get on your high horse
get on your nerves
get one wrong
get onto
get organized
get out
get out a sheet-anchor
get out of
get out of bed
get out of commission
get out of gear
get out of here
get out of joint
get out of kelter
get out of kilter
get out of line
get out of order
get out of the way of
get out of whack
get out of your depth
get over
get over the ground
get over with
get pickled
get plastered
get quit of
get quits with
get ready
get ready to
get red in the face
get religion
get rich
get rid of
get right
get round
get satisfaction
get scent of
get sea room
get set
get set for
get shet of
get shut of
get sidetracked
get smart
get some air
get some sack time
get some shut-eye
get something out of your system
get sore
get square with
get squared away
get taped
get the advantage
get the air
get the ax
get the best of
get the better of
get the breaks
get the control of
get the drift
get the drop on
get the ear of
get the edge on
get the facts
get the floor
get the gate
get the hang of
get the hell out
get the idea
get the impression
get the jump on
get the knack of
get the lay of the land
get the lead out
get the lead out of your ass
get the lie of the land
get the mastery of
get the meaning of
get the picture
get the power into your hands
get the show on the road
get the start
get the upper hand
get the works
get the worst of it
get there
get things into proportion
get through
get through to
get through with
get through your head
get through your thick head
get tired
get to
get to be
get to do
get to first base
get to know one another
get to the bottom of
get to the core
get to the essence
get to the nub
get to your feet
get together
get together with
get too big for your breeches
get top billing
get under way
get under your skin
get up
get up and go
get up early
get up in
get up late
get up nerve
get up on
get up steam
get used to
get warm
get well
get well out of
get what is coming to one
get wind of
get wind up
get wise to
get with child
get with it
get with young
get worse
get wrong
get you down
get you gone
get your Irish up
get your ass in a bind
get your ass in gear
get your back up
get your bearings
get your blood up
get your comeuppance
get your credentials
get your dander up
get your deserts
get your dues
get your feet on the ground
get your feet wet
get your fingers on
get your goat
get your gorge up
get your hands on
get your hopes up
get your mad up
get your money's worth
get your monkey up
get yourself a deal
get yourself in a sulk
get-at-ability
get-at-able
get-at-ableness
get-away
get-away speed
get-off
get-out
get-together
get-tough
get-up
get-up-and-get
get-up-and-go
getah wax
getet out
getting along
getting along in years
getting around
getting even
getting hold of
getting on
getting on in years
getting rid of
getting round
getting the hell out
getting with child
geyser basin
geyser cone
gharry-wallah
ghatti gum
ghetto-dwellers
ghost candle
ghost crab
ghost daemon
ghost dance
ghost edition
ghost food
ghost god
ghost gum
ghost hole
ghost line
ghost lodge
ghost lore
ghost moth
ghost name
ghost of a great name
ghost plant
ghost shrimp
ghost soul
ghost story
ghost town
ghost word
ghost world
ghost writer
ghost-fearing
ghost-filled
ghost-haunted
ghost-ridden
ghost-weed
ghost-writer
giallo antico
giant arrowhead
giant bass
giant bamboo
giant cane
giant chinquapin
giant crab
giant daisy
giant fennel
giant fescue
giant fulmar
giant garlic
giant granadilla
giant ground sloth
giant holly fern
giant hornet
giant killer
giant lily
giant lizard
giant of learning
giant order
giant panda
giant parsnip
giant petrel
giant planet
giant powder
giant ragweed
giant reed
giant rye grass
giant schnauzer
giant sea bass
giant sequoia
giant silkworm moth
giant size
giant slalom
giant sloth
giant snowdrop
giant star
giant step
giant steps
giant stride
giant sunflower
giant tortoise
giant water bug
giant-like
giant-sized
gib fish
gib plate
gib-cat
gib-head
gib-head key
gibbed cat
gibber bird
gibberellic acid
gibberellic acid
gibbet law
gibbet tree
gibble-gabble
gibble-gabbler
gibboso-
gibbous moon
gibby stick
gibe at
gibing retort
giblet-check
giblet-checked
giblet-cheek
gibus hat
giddy as a goose
giddy-brained
giddy-drunk
giddy-go-round
giddy-headed
giddy-paced
giddy-pated
giddy-witted
gier-eagle
giff-gaff
gift balsam
gift certificate
gift for
gift of expression
gift of gab
gift of the gab
gift of tongues
gift rope
gift shop
gift tax
gift with
gift wrap
gift wrapping
gift-rope
gift-wrap
gift-wrapped
gift-wrapper
gift-wrapping
gift-wrapt
gifted child
gifted person
gig lamp
gig machine
gig mill
gig-lamp
gig-mill
giga-
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gilt-edge
gilt-edged
gilt-edged securities
gilt-handled
gilt-head
gilt-headed
gilt-knobbed
gilt-robed
gilt-tail
gim peg
gimbal joint
gimbal ring
gimlet bit
gimlet eye
gimlet-eyed
gimmer hog
gimmer lamb
gimp lapper
gimp nail
gin and tonic
gin block
gin drinker's liver
gin fizz
gin mill
gin palace
gin pole
gin race
gin rickey
gin ring
gin rummy
gin sling
gin wagon
gin wheel
gin yard
gin-mill
gin-palace
gin-run
gin-saw
gin-saw file
gin-shop
gin-sling
gingelly oil
ginger ale
ginger beer
ginger bleacher
ginger bread
ginger buyer
ginger extract
ginger family
ginger grass
ginger group
ginger jar
ginger lily
ginger nut
ginger oil
ginger pine
ginger plant
ginger pop
ginger punch
ginger quill
ginger root
ginger snap
ginger spice
ginger tea
ginger up
ginger wine
ginger-beer
ginger-beery
ginger-color
ginger-colored
ginger-faced
ginger-grass oil
ginger-hackled
ginger-haired
ginger-pop
ginger-red
gingerbread man
gingerbread nut
gingerbread palm
gingerbread plum
gingerbread tree
gingili oil
gingiv-
ginkgo nut
ginny carriage
ginny-carriage
ginseng family
gipsy capstan
gipsy moth
gipsy winch
giraffe camel
girandole clock
girasol thorn
gird up your loins
gird your loins
gider bridge
girder erector
girder rail
girder riveter
girder stay
girder tool
girdle band
girdle bone
girdle pain
girdle sensation
girdle the globe
girdle wheel
girdle-tailed lizard
girl Friday
girl Fridays
girl friday
girl friend
girl guide
girl next door
girl scout
girl show
girl-o
girl-os
girl-shy
girl-watcher
girls' room
girly show
girt-line
girth web
girth-web
give 'em hell
give a
give a Roland for an Oliver
give a bad name
give a bad time to
give a bawling out
give a beating
give a big hand
give a bit of your mind
give a black eye
give a black mark
give a blank check
give a boost
give a boost to
give a bouquet
give a briefing
give a bum steer
give a buzz
give a cheer
give a color to
give a cursory look
give a damn
give a darn
give a dekko
give a direct order
give a dirty look
give a dog a bad name
give a dose of birch oil
give a dose of hazel oil
give a dose of hickory oil
give a dose of strap oil
give a dressing-down
give a fair shake
give a false alarm
give a false coloring
give a false idea
give a false impression
give a figure to
give a fillip to
give a fling
give a for-instance
give a free course to
give a free hand
give a free translation
give a go
give a going-over
give a good
give a good account of yourself
give a guess
give a hand
give a hearing to
give a helping hand
give a hint
give a job to
give a knockdown
give a leg up
give a lesson
give a lesson to
give a lick and a promise
give a lift
give a loose translation
give a miss to
give a nod of assent
give a party
give a performance
give a piece of advice
give a piece of your mind
give a pointer to
give a posy
give a promise
give a quick look
give a quid pro quo
give a rap on the knuckles
give a raw deal
give a report
give a reprieve
give a ring
give a shout of laughter
give a show
give a shriek of laughter
give a sidelong look
give a signal
give a square deal
give a start
give a suggestion
give a surprise party
give a talk
give a thrashing
give a thrill
give a tone to society
give a transfusion
give a trial to
give a try
give a tryout
give a turn to
give a twist to
give a warm reception to
give a whammy
give a whipping
give a whirl
give a wide berth
give a wide berth to
give a willing ear
give a workout
give a write-up
give a wrong idea
give absolution
give acknowledgment
give admittance to
give advance notice
give air to
give an account of
give an alarm
give an appreciation
give an assignment
give an assist
give an ear
give an encore
give an entree
give an examination
give an exclamation
give an idea of
give an impetus
give an impression of
give an impulse to
give an inch and take an ell
give an inkling of
give an introduction
give an obolus to Charon
give an open mandate
give an opinion
give an order
give and take
give answer
give as a gift
give as an excuse
give as good as was sent
give as good as you get
give as much as you take
give assent
give attention
give audience to
give away
give back
give battle
give being to
give benediction
give birth
give birth to
give bridle to
give by way of information
give care to
give carte blanche
give chase
give cheerfully
give comfort
give concern
give confidential information
give consent
give credence to
give credit
give credit to
give danger a wide berth
give directions
give directions to
give dispensation from
give ear
give ear to
give emphasis to
give encouragement
give entrance to
give evidence
give expression
give expression to
give fair warning
give faith to
give for free
give forgiveness
give forth
give forth a sound
give free course to
give free play to the emotions
give free play to
give freely
give full authority
give full particulars
give full play
give full power
give good reasons for
give good returns
give greater draft fore and aft
give ground
give ground for expecting
give hail Columbia
give heed
give heed to
give hell
give help
give her beans
give her less rudder
give her more rudder
give homework
give honor to
give hope
give importance to
give in
give in charge
give in exchange
give in kind
give in marriage
give in return
give in trust
give indication of
give instruction
give instructions
give it a go
give it a second thought
give it all your got
give it no more thought
give it the gas
give it the gun
give it to
give it your all
give leave
give lessons in
give life to
give light
give line
give lip service
give little weight to
give measure for measure
give mind to
give momentum
give moral support to
give more matter and less art
give more than your share
give mouth honor
give new life to
give no cheer
give no comfort
give no credence to
give no credit to
give no heed
give no joy
give no pleasure
give no quarter
give no trouble
give notice
give notification
give occasion to
give of
give of your substance
give of yourself
give off
give off waves of heat
give offense
give offense to
give official sanction
give official warrant
give texture
give thanks
give the
give the Bronx cheer
give the Devil his due
give the air
give the asking price
give the ax
give the ax to
give the battle cry
give the benefit of the doubt
give the bird
give the bum's rush
give the business
give the chuck to
give the coat off your back
give the cold shoulder
give the cold shoulder to
give the come-on
give the cue
give the deuce
give the devil
give the evil eye
give the eye
give the facts
give the feeling of
give the finishing strokes
give the finishing touches
give the freedom of
give the gate
give the glad eye
give the glad hand
give the go-ahead
give the go-by
give the good word
give the green light
give the guy to
give the high sign
give the hook
give the imprimatur
give the kiss of death to
give the lie to
give the meaning
give the mind to
give the nod
give the old heave-ho
give the once-over
give the pink slip
give the quietus
give the quietus to
give the raspberry
give the reins to
give the run of
give the runaround
give the sack to
give the shirt off your back
give the shoulder
give the show away
give the silent treatment
give the slip
give the stick
give the word
give the word of command
give the works
give thought to
give thumbs up
give tick
give tidings of
give tit for tat
give title to
give to
give to the world
give token
give tongue
give top billing to
give umbrage
give until it hurts
give up
give up all expectation
give up all hope
give up hope
give up the crown
give up the ghost
give up your post
give upon
give utterance
give vent to
give voice
give warning
give way
give way to
give way to tears
give what-for
give with an open hand
give with both hands
give witness
give word
give word for word
give words to
give you
give you a bad time
give you a bang
give you a bellyful
give you a blank check
give you a boot
give you a charge
give you a fright
give you a hard time
give you a kick
give you a lift
give you a pain
give you a revelation
give you a scare
give you a send-off
give you a swift pain in the ass
give you a tip
give you a turn
give you a whammy
give you another chance
give you carte blanche
give you gooseflesh
give you his gruel
give you his head
give you his walking papers
give you leeway
give you room
give you rope
give you scope
give you short shrift
give you space
give you the evil eye
give you the glad eye
give you the lie
give you the lie direct
give you the lie in your throat
give you the lip
give you the run-around
give you the slip
give you the works
give you tit for tat
give you to understand
give you trouble
give you what is coming to you
give you your comeuppance
give you your deserts
give your best
give your best regards
give your blessing
give your blessing to
give your compliments
give your countenance to
give your eyeteeth
give your eyeteeth for
give your fair share
give your hand to
give your kingdom in hell for
give your life for your country
give your love
give your mind to
give your parole
give your regards
give your share
give your support to
give your thanks
give your undivided attention
give your voice for
give your word
give your word of honor
give yourself airs
give yourself for
give yourself over to
give yourself over to pleasure
give yourself up
give yourself up to
give yourself up to reverie
give-and-take
give-up
giveaway show
given a jar
given a jolt
given a turn
given birth
given fact
given name
given to
given to drink
given up
given up for dead
giver-out
giving back
giving birth
giving in
giving out
giving over
giving up
giving way
gizzard shad
gizzard trout
glacial acetic acid
glacial boulder
glacial deposit
glacial epoch
glacial lake
glacial meal
glacial milk
glacial movement
glacial period
glacier bear
glacier cataract
glacier lily
glacier milk
glacier table
glacier theory
glacis plate
glad eye
glad hand
glad hand, the
glad rags
glad tidings
glad to see you
glad-cheered
glad-flowing
glad-hand
glad-handed
glad-hander
glad-sad
glad-surviving
glade lily
glade mallow
glamour girl
glamour issue
glamour puss
glance at
glance coal
glance cobalt
glance copper
glance of the eye
glance off
glance over
glance pitch
glass-bottomed boat
glass-built
glass-cabin launch
glass-cloth
glass-coach
glass-coated
glass-colored
glass-covered
glass-cutter
glass-cutting
glass-eater
glass-eyed
glass-faced
glass-fronted
glass-glazed
glass-green
glass-hard
glass-house
glass-lined
glass-maker
glass-man
glass-paneled
glass-paper
glass-topped
glass-work
glassed-in
glasses case
glassy-eyed
glauber's salt
glaucous blue
glaucous gray
glaucous green
glaucous gull
glaucous-green
glaucous-winged
glaze frost
glaze ice
glaze kiln
glaze wheel
glazed doughnut
glazed frost
glazed ware
glazier's point
glazing bar
glazing bead
glazing brad
glazing-bar
gleam of hope
gleam of light
gleaming smile
glean knowledge
glean learning
glebe house
glebe land
glee club
glee-eyed
glen nymph
glenarry bonnet
gleno-
glial cells
glib tongue
glib-gabbet
glib-tongued
glide bomb
glide consonant
glide into
glide landing
glide path
glide plane
glide vowel
glide-bomb
glide-bombing
glider bomb
glider train
gliding angle
gliding boat
gliding joint
gliding machine
glimmer gowk
glimmer of hope
glimmering goal
glitter ice
glittering generality
gloat on
gloat over
gloating pleasure
global rule
global war
globe amaranth
globe artichoke
globe crowfoot
globe daisy
globe dollar
globe hyacinth
globe joint
globe lightning
globe lily
globe mallow
globe ranunculus
globe sight
globe thistle
globe tulip
globe valve
globe-girdler
globe-girdling
globe-shaped
globe-trot
globe-trotter
globe-trotting
globigerina ooze
globo-cumulus
globular cluster
globular lightning
globus hystericus
globus pallidus
glon on to
gloomy Gus
gloomy outlook
gloomy-browed
gloomy-faced
glor-fat
glorify the Lord
glory be
glory be to
glory be to God
glory be to God in the highest
glory bower
glory box
glory flower
glory hole
glory in
glory lily
glory pea
glory to God
glory tree
glory vine
glory-hole
glory-of-the-snow
glory-of-the-snows
glory-of-the-sun
glory-of-the-suns
glory-pea
gloss of novelty
gloss oil
gloss over
gloss-
glosso-
glossopalatine arch
glossopalatine nerve
glossopharyngeal nerve
glossopharyngeal neuralgia
glossy snake
glossy-black
glossy-leaved
glossy-white
glost fire
glost fireman
glost firing
glost oven
glost placer
glost-fired
glott-
glottal stop
glott-
glove box
glove compartment
glove contest
glove grain
glove maker
glove money
glove puppet
glove silk
glove silver
glove sponge
glove stitch
glover's stitch
glow beetle
glow discharge
glow discharge tube
glow lamp
glow light
glow lighting
glow meter
glow plug
glow tube
glow-discharge microphone
glow-worm
glowering look
glowing health
glowing smile
gloe over
glucaric acid
gluck-gluck
gluckliche Reise
gluconic acid
glucose sirup
glucose vinegar
glucuronic acid
glue boiler
glue bottle
glue brush
glue cell
glue maker
glue on
glue plant
glue sniffer
glue stock
glue the mind to
glue water
glue-pot
glued-up
gluing-off
glut herring
glut on the market
glut- glutamic acid
glutaminic acid
gluteal region
glutei maximi
gluten bread
gluten feed
gluten flour
gluten meal
gluteus maximus
gluteus medius
gluteus minimus
glutton bird
glyc-
glycer-
glyceria wax
glyceric acid
glycero aldehyde
glycerin jelly
glycerin lye
glycerin soap
glycero-
glycerol nitrate
glyceryl ester
glyceryl esters
glyceryl group
glyceryl monoacetate
glyceryl nitrate
glyceryl radical
glyceryl trinitrate
glyceryl trioleate
glyceryl tripalmitate
glyco-
glycogen disease
glycogenic acid
glycolic acid
glycollic acid
glyconic acid
glycuronic acid
glycyrrhizae composita
glyoxyl urea
glyptic artist
glyptographic artist
gnamma hole
gnash your teeth
gnashing of teeth
gnat hawk
gnath-
gnathic index
gnaw at the root of
gnaw away
gnawing of the bowels
gnawing pain
gneissoid-granite
gnome owl
gnomonic projection
gnothi seauton
gnu goat
go AWOL
go Dutch
go a journey
go aboard
go about
go about your business
go abroad
go across
go adrift
go after
go against
go against the grain
go aground
go ahead
go ahead of
go all colors
go all lengths
go all out
go all the way
go aloft
go along
go along with
go along with the crowd
go alongside
go amiss
go and
go and do
go and get
go and hang yourself
go ape
go ape over
go around
go around and around
go around in circles
go as
go as the crow flies
go as you please
go ashore
go ass over elbows
go astern
go astray
go astray from
go at
go at a snail's pace
go at flank speed
go at full blast
go at full steam
go at full tilt
go at it ass-backwards
go at large
go at liberty
go at the double
go away
go awol
go awry
go back
go back on
go back on your word
go back over
go back to
go backwards
go bad
go bail
go bail for
go bananas
go bankrupt
go beddy-bye
go before
go begging
go behind
go below
go berserk
go beside
go between
go beyond
go beyond reason
go beyond the bounds of reason
go blind
go broke
go bush
go by
go by air
go by airline
go by fits and starts
go by plane
go by rail
go by ship
go by the board
go by the name of
go bye-bye
go cahoots
go cahoots with
go camping
go cap in hand to
go chase yourself
go contrary to
go counter to
go crabwise
go crackers
go crazy
go dead
go dead slow
go deaf
go deep
go deep into
go directly
go down
go down in the world
go down like a stone
go down on your knees to
go down the drain
go down to the sea in ships
go down with flying colors
go downhill
go easily
go easy
go easy on
go even stephen
go even stephen with
go far
go far afield
go fast
go fetch
go fifty-fifty
go fifty-fifty with
go fish
go fishing
go flat out
go fly a kite
go for
go for a Sunday drive
go for a burton
go for a drive
go for a ride
go for a spin
go for a walk
go for an airing
go for an outing
go for broke
go for the deck
go foreign
go forth
go forward
go free
go from bad to worse
go from home
go from push to shove
go full speed ahead
go full speed astern
go full steam ahead
go full tilt at
go gauge
go get
go great guns
go gunning for
go halvers
go halvers with
go halves
go hand in hand
go hand in hand with
go hard with
go haywire
go head over heels
go hell-bent for election
go home
go home feet first
go hungry
go hunting
go ill with
go in
go in advance
go in bathing
go in business for yourself
go in cahoot with
go in cahoots
go in debt
go in for
go in harm's way
go in hock
go in hock for
go in one ear and out the other
go in opposition to
go in partners
go in partnership
go in peace
go in pursuit of
go in search of
go in swimming
go in the face of
go in the lead
go in the rear of
go in wading
go in with
go into
go into a funk
go into a huddle
go into a tail spin
go into a tailspin
go into a tantrum
go into convulsions
go into decay
go into detail
go into heart and soul
go into hiding
go into hysterics
go into litigation
go into mourning
go into orbit
go into outer space
go into partnership with
go into raptures
go into receivership
go into retirement
go into reverse
go into seclusion
go into shock
go into the money market
go into training
go into your pocket
go it alone
go jump in the lake
go kaput
go lame
go light
go like
go like a bat out of hell
go like a flash
go like a shot
go like a streak of lightning
go like clockwork
go like greased lightning
go like hot cakes
go like lightning
go like the wind
go long
go mad
go maku
go marketing
go native
go near
go night-night
go off
go off at a tangent
go off at half cock
go off half-cocked
go off in all directions at once
go off on a tangent
go off soundings
go off the air
go off the deep end
go off the track
go off the trolley
go off to sleep
go off your head
go off your nut
go off your rocker
go on
go on a bat
go on a bender
go on a binge
go on a bust
go on a crusade
go on a crusade against
go on a diet
go on a drunk
go on a honeymoon
go on a journey
go on a pilgrimage
go on a rampage
go on a rip
go on a sight-seeing trip
go on a spending spree
go on a spree
go on a tear
go on a toot
go on a trip
go on a voyage
go on a wartime footing
go on a wild-goose chase
go on a wrong tack
go on about
go on all fours
go on all fours with
go on an ego trip
go on an expedition
go on and on
go on bended knee to
go on board
go on forever
go on furlough
go on hands and knees
go on horseback
go on in the old jog-trot way
go on leave
go on over
go on parade
go on record
go on safari
go on shipboard
go on strike
go on the air
go on the blink
go on the bum
go on the defensive
go on the fritz
go on the heel and toe
go on the merry-go-round
go on the road
go on the rocks
go on the shoals
go on the stump
go on the town
go on the warpath
go on tick
go on tiptoe
go on welfare
go on with
go on with the show
go on your beat
go once over lightly
go one better
go onto
go onwards and upwards
go out
go out for
go out like a lamb
go out like a light
go out of bounds
go out of business
go out of line
go out of style
go out of the way
go out of use
go out of your depth
go out of your skull
go out of your way
go out on a limb
go out on strike
go out the window
go out with
go out with the ebb
go out with the tide
go over
go over again and again
go over and over
go over big
go over like a lead balloon
go over step by step
go over the board
go over the ground
go over the hill
go over the same ground
go over the side
go over the top
go over the wall
go over to the enemy
go over to the great majority
go over to the majority
go over your head
go overboard
go overseas
go partners
go peddle your fish
go phut
go pitapat
go pitter-patter
go places
go places and do things
go public
go right through
go roll your hoop
go round
go round Robin Hood's barn
go round about
go round like a horse in a mill
go scot free
go separate ways
go shares
go shopping
go short
go sideways
go sit on a tack
go slow
go slowly
go slumming
go snack
go soak your head
go soft
go soft at the edges
go steady
go step by step
go straight
go straight on
go straight to the point
go the dizzy rounds
go the limit
go the long way around
go the other way
go the round
go the rounds
go the route
go the same round
go the vole
go the way of all earth
go the way of all flesh
go the whole hog
go the whole length
go the whole way
go through
go through a change
go through channels
go through fire and water
go through hell and high water
go through one
go through one's head
go through phases
go through the motions
go through with
go through with it
go through your paces
go through your part
go to
go to Abraham's bosom
go to Canossa
go to Davy Jones's locker
go to a better land
go to a better life
go to a better place
go to a better world
go to a watery grave
go to all lengths
go to an extreme
go to and fro
go to any length
go to any lengths
go to bat for
go to bed
go to bed with
go to do
go to extremes
go to foreign places
go to foreign shores
go to get
go to glory
go to grass
go to great lengths
go to great pains
go to ground
go to hell
go to it
go to kingdom come
go to law
go to loggerheads
go to perdition
go to pieces
go to pot
go to press
go to rack and manger
go to rack and ruin
go to rest
go to ruin
go to school
go to sea
go to sea in a sieve
go to seed
go to shivers
go to show
go to sleep
go to smash
go to smithereens
go to the bad
go to the bathroom
go to the bitter end
go to the bottom
go to the country
go to the deuce
go to the devil
go to the dogs
go to the electorate
go to the front for
go to the happy hunting grounds
go to the mat with
go to the trouble
go to the voters
go to the wall
go to town
go to town on
go to war
go to waste
go to windward
go to wrack and ruin
go to your glory
go to your head
go to your heart
go to your last home
go to your long account
go to your rest
go to your reward
go together
go too far
go treat
go under
go under a false name
go under an alias
go under an assumed name
go under false colors
go under false pretenses
go under the knife
go under the name of
go underground
go unrestrained
go up
go up and up
go up blind alleys
go up in smoke
go up in your lines
go up on your lines
go up the nose
go up the spout
go up the wall
go up to with hat in hand
go uphill
go upon
go well
go west
go whole hog
go with
go with the current
go with the party
go with the stream
go with the tide
go without
go without saying
go wonder
go woolgathering
go wrong
go your own way
go your rounds
go your way
go-about
go-ahead
go-as-you-please
go-ashore
go-away bird
go-back
go-between
go-by
go-cart
go-devil
go-down
go-getter
go-getterism
go-getting
go-go
go-go dancer
go-kart
go-moku
go-off
go-quick
go-slow policy
go-to-itiveness
go-to-meeting
goa powder
goad on
goal area
goal crease
goal judge
goal kick
goal line
goal minder
goal net
goal post
goal posts
goal stick
goal tender
goal tending
goal-post mast
goat antelope
goat chaffer
goat cheese
goat fig
goat god
goat grass
goat hair
goat marjoram
goat milker
goat moth
goat nut
goat owl
goat pepper
goat pox
goat rue
goat's hair
goat's-beard
goat's-rue
goat-bearded
goat-drunk
goat-eyed
goat-footed
goat-headed
goat-herd
goat-hoofed
goat-horned
goat-keeping
goat-kneed
goat-pox
goat-toothed
goatsfoot convolvulus
gob line
gob rope
gob-line
gobar numerals
gobble down
gobble up
gobe-mouches
goblet cell
goblin fish
goblin scarlet
goblin shark
god head
god of evil
god of justice
god of lightning
god of trade
god's acre
god's penny
god's-penny
god-a-mercy
god-almighty
god-child
god-damn
god-daughter
god-fearing
god-horse
god-king
god-mamma
god-man
god-papa
god-parent
god-phere
god-speed
goddam it
goddess of evil
goddess of justice
goddess-like
goddesses of discord
godforsaken place
godly-learned
godly-minded
godly-mindedness
gods of
gods of commerce
gods of evil
gods of marriage
gods of the nether world
goer-by
goferor gauffer
goggle eyes
goggle-eye
goggle-eye scad
goggle-eyed
goggle-eyes
goggle-nose
going about
going afoot
going against the current
going ahead
going along with
going around
going around in circles
going ashore
going away
going barrel
going behind
going between
going down of the sun
going for broke
going forth
going fusee
going light
going off
going on
going on all fours
going on foot
going out
going over
going price
going strong
going through
going to Jerusalem
going to happen
going to pieces
going to the polls
going train
going wheel
going-concern
going-concern value
going-out-of-business sale
going-over
going on
going-on
going-over
goiter stick
gold apple
gold assayer
gold bank
gold bar
gold basis
gold bass
gold beating
gold beetle
gold beryl
gold blocker
gold blocking
gold bond
gold book
gold brick
gold bronze
gold brown
gold bullion standard
gold carp
gold certificate
gold chloride
gold clause
gold democrat
gold depository
gold digger
gold digging
gold diggings
gold driver
gold dust
gold fever
gold field
gold foil
gold lace
gold leaf
gold maker
gold making
gold medal
gold melter
gold mine
gold miner
gold mining
gold monochloride
gold note
gold nugget
gold of pleasure
gold orange
gold pan
gold panner
gold piece
gold plate
gold point
gold refiner
gold reserve
gold rush
gold seeker
gold solder
gold spinner
gold standard
gold star
gold stick
gold therapy
gold tooth
gold topaz
gold trichloride
gold warden
gold washer
gold washing
gold working
gold-and-silver plant
gold-ball
gold-banded
gold-basket
gold-bearing
gold-beater
gold-beating
gold-bloom
gold-bound
gold-braided
gold-breasted
gold-brick
gold-bright
gold-broidered
gold-bug
gold-bullion standard
gold-ceiled
gold-chain
gold-clasped
gold-colored
gold-containing
gold-crested
gold-daubed
gold-decked
gold-dig
gold-digger
gold-dust
gold-dust tree
gold-edged
gold-embossed
gold-embroidered
gold-enwoven
gold-exchange
gold-exchange standard
gold-field
gold-fields
gold-filled
gold-finder
gold-fish
gold-foil
gold-framed
gold-fringed
gold-graved
gold-green
gold-haired
gold-headed
gold-hilted
gold-inlaid
gold-laced
gold-laden
gold-leaf
gold-lit
gold-mine
gold-mounted
gold-of-pleasure
gold-plate
gold-plated
gold-plating
gold-red
gold-ribbed
gold-rimmed
gold-robed
gold-rolling
gold-rush
gold-seeking
gold-star
gold-striped
gold-strung
gold-studded
gold-tail moth
gold-testing
gold-washer
gold-weight
gold-winged
gold-work
gold-wrought
gold-yellow
goldbeater's skin
golden age
golden aster
golden bamboo
golden bantam corn
golden beryl
golden boy
golden buck
golden calf
golden calla lily
golden chain
golden clematis
golden coreopsis
golden crest
golden crown
golden crownbeard
golden currant
golden disc
golden dream
golden eagle
golden eardrop
golden era
golden exhalations of the dawn
golden feather
golden fizz
golden flax
golden fleece
golden glow
golden goose
golden gram
golden handshake
golden horde
golden jubilee
golden loosestrife
golden marguerite
golden mean
golden millet
golden mole
golden nematode
golden number
golden oat
golden opportunity
golden oriole
golden pheasant
golden plover
golden polypody
golden potto
golden queen
golden ragwort
golden rain
golden retriever
golden rose
golden rule
golden sable
golden saying
golden season of life
golden section
golden shower
golden silence
golden slumbers
golden spider lily
golden star
golden stars
golden syrup
golden thistle
golden time
golden touch, the
golden trout
golden tuft
golden vision
golden warbler
golden wattle
golden wedding
golden wedding anniversary
golden years, the
golden yellow
golden-ager
golden-banded
golden-banded lily
golden-bearded
golden-breasted
golden-brown
golden-cheeked
golden-chestnut
golden-colored
golden-crested
golden-crowned
golden-crowned kinglet
golden-cup
golden-cup oak
golden-eared
golden-eye
golden-eyed
golden-eyed fly
golden-eyed grass
golden-feather yellow
golden-fettered
golden-fingered
golden-footed
golden-fruited
golden-gleaming
golden-glowing
golden-green
golden-haired
golden-headed
golden-hilted
golden-hued
golden-leaved
golden-locked
golden-mouthed
golden-rayed
golden-rain tree
golden-rayed
golden-rod
golden-spotted
golden-throned
golden-tipped
golden-toned
golden-tongued
golden-tressed
golden-voiced
golden-winged
golden-yellow
goldenrain tree
goldenrod tree
goldfish bowl
goldsmitth beetle
golf bag
golf ball
golf cart
golf club
golf course
golf green
golf hose
golf links
golf red
golf shoe
golf widow
golgi apparatus
golgi body
goliath beetle
goliath crane
goliath frog
goliath heron
golo-shoe
gom-paauw
gombeen-man
gombeen-men
gombroon ware
gomoku-zogan
gomuti palm
gon-
gondang wax
gondola back
gondola car
gone arrow
gone away
gone bad
gone begging
gone by
gone feeling
gone for a burton
gone glimmering
gone goose
gone off
gone on
gone out
gone out of your head
gone out of your recollection
gone the way of all flesh
gone to a better land
gone to a better place
gone to a better world
gone to dust
gone to glory
gone to kingdom come
gone to pot
gone to rack and ruin
gone to seed
gone to the bad
gone to the dogs
gone to waste
gone to wrack and ruin
gone west
gone-by
gong bell
gong buoy
gong drum
gong-gong
goni-
gono-
gonococcal arthritis
gonorrheal arthritis
gonorrheal rheumatism
goo-goo
goo-goo eyes
gooberry pea
good Christian
good English
good Joe
good Samaritan
good afternoon
good and
good and mad
good and ready
good and tired
good angel
good appearance
good arvo
good as gold
good at
good at the price
good auspices
good behavior
good book
good boy good girl
good boygood girl
good break
good breeding
good buy
good case
good chance
good character
good cheap
good cheer
good child
good citizen
good citizenship
good clothes
good company
good condition
good constitution
good cry
good day
good deal
good deed
good deportment
good digestion
good disposition
good effect
good egg
good enough
good estate of body
good even
good evening
good example
good faith
good features
good feeling
good fellow
good figure
good fist
good flavor
good folk, the
good footing
good for
good for a laugh
good for you
good form
good fortune
good friday
good friend
good full
good genius
good graces
good gracious
good guy
good hair
good hand
good health
good hearing
good heavens
good hope
good humor
good humour
good idea
good influence
good judge
good judgment
good lack
good life
good life, the
good looker
good looks
good loser
good lot
good luck
good man
good management
good manners
good marrow
good measure
good memory
good mixer
good morning
good morrow
good name
good nature
good neighbor
good news
good night
good night's sleep
good now
good odor
good offices
good oil
good old days
good old summertime
good old times
good omen
good one
good opportunity
good palate
good pennyworth
good people
good person
good points
good possibility
good price
good prognosis
good proportions
good prospect
good quality or effect
good question
good reason
good reasoning
good report
good reputation
good repute
good riddance
good sense
good shape
good shot
good show
good side of, the
good society
good soldier
good sooth
good sort
good speed
good spirits
good sport
good sportsmanship
good state of health
good stewardship
good story
good sum
good supply
good sword
good taste
good temper
good templar
good terms
good thing
good things of life
good time
good times
good to eat
good trim
good turn
good understanding
good usage
good use
good vibes
good vibrations
good ways
good weather
good will
good will to man
good will toward man
good wishes
good woman
good word
good works
good writing
good-by
good-bye
good-bye-summer
good-daughter
good-den
good-doer
good-faith
good-father
good-fellow
good-fellowhood
good-fellowish
good-fellowship
good-for
good-for-naught
good-for-nothing
good-for-nothingness
good-hearted
good-humored
good-humoredly
good-humoredness
good-humoured
good-humouredly
good-humouredness
good-liking
good-looker
good-looking
good-lookingness
good-luck charm
good-luck piece
good-mannered
good-morning-spring
good-mother
good-natured
good-natured banter
good-naturedly
good-naturedness
good-neighbor
good-neighbor policy
good-neighbourhood
good-night
good-o
good-oh
good-plucked
good-sister
good-size
good-sized
good-tasting
good-tempered
good-temperedly
good-temperedness
good-time
goodness gracious
goodness of fit
goodness of heart
goods and chattels
goods dollar
goods engine
goods for sale
goods train
goods waggon
goods wagon
goods yard
goods, the
goody good-good
goody gumdrops
goody-good
goody-goodies
goody-goodness
goody-goodness
goody-goody
goody-goodyism
goody-goodynenss
goof around
goof off
goof up
goof-off
goof-off time
goof-up
goofing off
googly-eyed
goony squad
gooney bird
goose barnacle
goose bumps
goose call
goose chase
goose club
goose corn
goose egg
goose file
goose flesh
goose grass
goose gray
goose grease
goose gull
goose pen
goose pimples
goose plant
goose plum
goose quill
goose rump
goose skin
goose step
goose tansy
goose teal
goose tree
goose walk
goose-beak whale
goose-bill
goose-cackle
goose-egg
goose-flesh
goose-fleshy
goose-foot
goose-footed
goose-grass
goose-grease
goose-headed
goose-neck
goose-pimple
goose-pimply
goose-quill
goose-shaped
goose-skin
goose-step
goose-stepped
goose-stepper
goose-stepping
goose-wing
gooseberry bush
gooseberry family
gooseberry fool
gooseberry fruitworm
gooseberry gourd
gooseberry mildew
gooseberry moth
gooseberry picker
gooseberry pie
gospel music
gospel oath
gospel side
gospel truth
gospel-true
gosport tube
gossamer fern
gossamer spider
gossip column
gossip columnist
gossip made tedious by morality
got to
gothic arch
gothic section
gouden reaal
gouge carving
gouge out
gouge shell
gourd cup
gourd family
gourd melon
gourd towel
gourd tree
gourd-shaped
gourdhead buffalo
gourdseed buffalo
gourmet quality
gout fly
gout ivy
gout of rain
gout tree
gouty arthritis
gouty stool
gouv-
governess-ship
governing board
governing body
government archives
government bar
government bond
government building
government control
government depository
government hospital
government insurance
government issue
government man
government mark
government note
government of the people
government paper
government papers
government securities
government stamp
government-general
government-in-exile
government-owned
governmental leadership
governor general
governor generals
governor's council
governor's mansion
governor-elect
governor-general
governor-generalship
governors general
gowk storm
gown boy
gown-fashion
gr wt
gr-s
graafian follicle
grab at
grab bag
grab bar
grab barrel
grab box
grab bucket
grab dredge
grab hold of
grab line
grab link
grab machine
grab off
grab one
grab rope
grab skipper
grab the thoughts
grab-all
grabbot gin
grace cup
grace drink
grace hoop
grace note
grace of expression
grace period
grace with
grace-and-favor
grace-and-favour
grace-cup
graceful gesture
gracious life
gracious living
grade bar
grade by grade
grade cricket
grade crossing
grade insignia
grade line
grade peg
grade school
grade schooler
grade separation
grade stake
graded post
graded school
gradient microphone
gradient post
gradient wind
gradual change
graduate assistant
graduate education
graduate nurse
graduate school
graduate student
graduate-professional
graduate-professional education
graduated scale
graduated student
graduated tape
graduated taxation
graduating engine
graduation exercises
graeco-
graft hybrid
graft-hybridism
graft-hybridization
grafting wax
graham bread
graham cracker
graham flour
graham wafer
grain alcohol
grain aphid
grain tin
grain traveler
grain weevil
grain weigher
grain-burnt
grain-carrying
grain-cleaning
grain-cut
grain-eater
grain-eating
grain-fed
grain-growing
grain-laden
grain-wagon hitch
grains d'orge
grains of paradise
gram atom
gram calorie
gram degree
gram equivalent
gram equivalent weight
gram ion
gram molecule
gram's method
gram-atomic weight
gram-centimeter
gram-meter
gram-molar
gram-molecular
gram-molecular weight
gram-negative
gram-negative bacteria
gram-positive
gram-positive bacteria
gram-variable
grama grass
gramicidin D
graminaceous plant
gramineous plant
grammar college
grammar school
grammar-school
grammatical accent
grammatical analysis
grammatical error
grammatical form
grammatical gender
grammatical meaning
grammatical point
grammatical theory
grammatico-allegorical
gramophone record
gran cassa
gran torismo
granche cheese
granadilla tree
granary weevil
grand air
grand ballroom
grand chain
grand chop
grand climacteric
grand cordon
grand council fire
grand coup
grand dame
grand dragon
grand drapery
grand duchess
grand duchy
grand duke
grand feu
grand final
grand finale
grand fir
grand guignol
grand inquisitor
grand jete
grand juror
grand jury
grand juryman
grand lama
grand larceny
grand mal
grand march
grand master
grand monde
grand old man
grand opera
grand passion
grand pian
grand piano
grand prior
grand quarter
grand seigneur
grand seignior
grand serjeanty
grand sicle
grand signior
grand slam
grand sonnerie
grand tactics
grand theft
grand total
grand tour
grand vicar
grand vizier
grand-
grand-aunt
grand-dad
grand-daughter
grand-ducal
grand-juror
grand-juryman
grand-nephew
grand-niece
grand-scale
grand-slammer
grand-uncle
grande dame
grande passion
grandes dames
grandes passions
grandfather chair
grandfather clause
grandfather clock
grandfather graybeard
grandfather longlegs
grandfather's chair
grandfather's clock
grandmother clock
grandmother's clock
grandstand play
grandstand player
granger laws
grani-
granite blue
granite gray
granite paper
granite porphyry
granite quarryer
granite-dispersing
granite-gneiss
granite-gruss
granite-sprinkled
granny flat
granney glasses
granny knot
granny's bend
granny's knot
granny-thread
grano-
grant a decree of nullity
grant a divorce
grant a final decree
grant a reprieve
grant amnesty to
grant an annulment
grant bail to
grant citizenship
grant exemption
grant forgiveness
grant immunity
grant of probate
grant remission
grant-in-aid
grants-in-aid
granul-
granular snow
granular texture
granulated soap
granulated sugar
granulation tissue
granule cell
granule gravel
granulo-
granuloma inguinale
granuloma venereum
grape cane borer
grape cherry
grape curculio
grape cure
grape disease
grape family
grape fern
grape green
grape grower
grape growing
grape hoe
grape hopper
grape hyacinth
grape juice
grape leaf folder
grape leaf hopper
grape louse
grape mildew
grape moth
grape pear
grape phylloxera
grape picker
grape picking
grape ranch
grape rootworm
grape rot
grape rust
grape scale
grape seed
grape sugar
grape tomato
grape tree
grape weevil
grape wine
grape worm
grape-bearing
grape-berry moth
grape-eater
grape-hued
grape-leaved
grape-seed oil
grape-shaped
grape-shot
grape-sized
grape-stone
grape-vine
grapefruit juice
grapefruit league
grapefruit spoon
grapes of wrath
grapevine fidia
grapevine flea beetle
grapevine leaf hopper
grapevine phylloxera
grapevine telegraph
grapevine thrips
graph paper
graphic accent
graphic account
graphic algebra
graphic art
graphic artist
grass lawn
grass lily
grass linen
grass mildew
grass moor
grass moth
grass owl
grass paper
grass parakeet
grass pea
grass pickerel
grass pink
grass plover
grass poly
grass pondweed
grass porcupine
grass rockfish
grass roots
grass rug
grass sandwort
grass savanna
grass shears
grass skirt
grass snake
grass snipe
grass sorghum
grass spider
grass sponge
grass staggers
grass steppe
grass style
grass swine
grass table
grass tetany
grass tree
grass veld
grass vetch
grass warbler
grass webworm
grass widow
grass widower
grass wrack
grass-blade
grass-carpeted
grass-clad
grass-cloth
grass-cloth plant
grass-covered
grass-cushioned
grass-cutting
grass-eater
grass-eating
grass-embroidered
grass-fed
grass-green
grass-growing
grass-grown
grass-hook
grass-killing
grass-leaved
grass-mowing
grass-of-Parnassus
grass-plat
grass-roofed
grass-roots
grass-roots campaign
grass-roots movement
grass-tree
grass-tree gum
grass-woven
grass-wren
grasshopper engine
grasshopper escapement
grasshopper gauge
grasshopper lark
grasshopper lobster
grasshopper mouse
grasshopper sparrow
grasshopper warbler
grassland buttercup
grassland daisy
grassy-green
grassy-leaved
grate coal
grate on
grate room
grate surface
grate upon the ear
grated cheese
grateful dead
gratia dei
gratify yourself
gratuitous contract
gravamen of a charge
grave accent
grave as an undertaker
grave clothes
grave harmonic
grave injustice
grave marker
grave mixture
grave plant
grave robber
grave robbing
grave sin
grave wax
grave-born
grave-bound
grave-browed
grave-clothes
grave-colored
grave-digger
grave-digging
grave-faced
grave-looking
grave-riven
grave-robbing
grave-toned
grave-visaged
grave-wax
gravel chickweed
gravel plant
gravel road
gravel shooter
gravel train
gravel-bind
gravel-blind
gravel-blindness
gravel-grass
gravel-pit
gravel-stone
gravel-walk
graven image
graves' disease
graves's disease
graveside oration
gravestone cutter
graveyard shift
graveyard vote
graveyard watch
graveyard weed
gravi-
gravimetric analysis
graving dock
gray goldenrod
gray goods
gray gum
gray hair
gray hairs
gray hen
gray iron
gray manganese ore
gray market
gray marketeer
gray matter
gray mold
gray mullet
gray of the evening
gray orchis
gray out
gray ox
gray parrot
gray pine
gray scale
gray sea eagle
gray skate
gray snapper
gray sour
gray squirrel
gray trout
gray whale
gray with age
gray with fear
gray wolf
gray-barked
gray-bearded
gray-bellied
gray-black
gray-blue
gray-bordered
gray-boughed
gray-breasted
gray-brindled
gray-brown
gray-cheeked
gray-cheeked thrush
gray-clad
gray-colored
gray-crowned
gray-drab
gray-eyed
gray-faced
gray-gowned
gray-green
gray-grown
gray-haired
gray-haired person
gray-headed
gray-headed person
gray-headed woodpecker
gray-hooded
gray-hued
gray-leaf
gray-leaf pine
gray-leaved
gray-lit
gray-mantled
gray-moldering
gray-mustached
gray-necked
gray-speckled
gray-spotted
gray-tailed
gray-tailed cardinal
gray-tinted
gray-toned
gray-twighed
gray-veined
gray-white
gray-winged
grease bucket
grease cup
grease extractor
grease gun
grease job
grease joint
grease mold
grease monkey
grease moth
grease nipple
grease paint
grease pit
grease rack
grease ring
grease the hand
grease the palm
grease the ways
grease the wheels
grease trap
grease wool
grease your palm
grease-heel
grease-heels
grease-nut
greased lightning
greasing of the wheels
greasy grind
greasy spoon
greasy-headed
great Neptune's ocean
great abundance
great ado
great age
great anteater
great ape
great auk
great barracuda
great basinet
great bear
great beauty
great big
great black-backed gull
great blue heron
great blue shark
great bunch grass
great bustard
great calorie
great cause
great circle
great compass
great cost
great council
great crested grebe
great dane
great deal
great distance
great divide
great doings
great doxology
great effort
great expectations
great foot
great friend
great fun
great go
great grandfather
great gray owl
great gross
great gun
great guns
great heart
great helm
great honor
great horned owl
great hundred
great lady
great laurel
great lobelia
great man
great mullein
great nettle
great northern diver
great octave
great of heart
great of soul
great one for
great organ
great pace
great pastern bone
great plenty
great point
great power
great pox
great price
great primer
great pyrenees
great ragweed
great reach
great reed
great respect
great rhododendron
great rosebay
great russian
great sallow
great satisfaction
great scale
great scope
great sea
great seal
great skua
great soil group
great soul
great success
great talker
great tit
great toe
great tuna
great unwashed, the
great value
great wheel
great white heron
great white shark
great white trillium
great wind
great with child
great with young
great work
great wrong
great year
great, the
great-
great-armed
great-aunt
great-bellied
great-boned
great-children
great-circle
great-circle chart
great-circle course
great-circle sailing
great-circle track
great-coat
great-crested
great-eared
great-eyed
great-footed
great-footed hawk
great-grand daughter
great-grand aunt
great-grandchild
great-grandchildren
great-granddaughter
great-grandfather
great-grandmother
great-grandnephew
great-grandniece
great-grandparent
great-grandson
great-granduncle
great-great-
great-grown
great-head
great-headed
great-hearted
great-hipped
great-leaved
great-lipped
great-minded
great-mindedly
great-mindedness
great-nephew
great-niece
great-nosed
great-sized
great-souled
great-sounding
great-spirited
great-stemmed
great-tailed
great-tailed grackle
great-uncle
great-witted
greater Bairam
greater Ionic
greater and greater
greater celandine
greater city
greater doxology
greater litany
greater multangular bone
greater omentum
greater prairie chicken
greater shearwater
greater weever
greater yellowlegs
greatest common divisor
greatest lower bound
greatest-integer function
greatly daring
greatness of heart
greatness of soul
grebe cloth
greco-
greedy as a hog
greedy eater
greedy guts
greedy-gut
greek catholic
greek cross
greek fire
greek orthodox
green Chartreuse
green June beetle
green alga
green algae
green apple
green as grass
green bag
green ball
green bass
green bean
green belt
green blindness
green book
green card
green cheese
green cloth
green color
green copperas
green corn
green crab
green dragon
green earth
green fee
green fingers
green flash
green foxtail
green frog
green gland
green glass
green gold
green goods
green goose
green gram
green grass
green head
green heron
green in the eye
green lead ore
green leek
green light
green light
green man
green manure
green mint
green mold
green monkey
green mould
green mountain boy
green ocher
green oil
green old age
green onion
green osier
green paper
green pea
green pepper
green pigeon grass
green plover
green pound
green revolution
green rot
green salad
green salt
green sauce
green sea
green segment
green sickness
green snake
green soap
green strength
green stuff
green tea
green thumb
green turtle
green valley-grass
green vegetable
green vegetables
green verditer
green vitriol
green wattle
green way
green with envy
green with jealousy
green woodpecker
green-back herring
green-back trout
green-backed
green-backed goldfinch
green-recessed
green-ribbed
green-room
green-rotted
green-salted
green-sand
green-seeded
green-shaving
green-sheathed
green-shining
green-skinned
green-sleeves
green-stained
green-stone
green-striped
green-suited
green-tail
green-tail fly
green-tailed
green-throated
green-tinted
green-tip spray
green-tipped
green-twined
green-veined
green-winged
green-winged teal
green-yard
green-yellow
greenbottle fly
greenhouse effect
greenhouse stone cricket
greenhouse thrips
greening weed
greenish-blue
greenish-flowered
greenish-yellow
greens fee
greensand process
greenstick fracture
greenwich time
greet the day
greet with a kiss
greet with skepticism
greeting card
gregorian calendar
gregorian chant
gregory-powder
grenade launcher
grenadine pink
grenadine red
grenz ray
gresham's law
gretta green
grey area
grey eminence
grey fox
grey friar
grey goose
grey heron
grey lag
grey market
grey matter
grey mullet
grey plover
grey squirrel
grey whale
grey wolf
grey-back
grey-cheeked
grey-coat
grey-eyed morn
grey-headed
grey-hen
grey-state
greyhound racing
greylag goose
grid battery
grid bias
grid capacitor
grid circuit
grid condenser
grid conductance
grid current
grid declination
grid emission
grid leak
grid line
grid metal
grid modulation
grid road
grid variation
grid voltage
grid-bias battery
grid-dip meter
grid-dip oscillator
grin like a chessey-cat
grind down
grind on
grind organ
grind to dust
grind to powder
grind whale
grind your teeth
grindery warehouse
grinding halt
grinding mill
grinding organ
grinding pain
grinding poverty
grinding stone
grinding wheel
grindle stone
grinning skull
grip block
grip car
grip of steel
grip sheave
grip tape
grip wheel
gripe piece
gripe water
gripe's egg
gripping instrument
gripping instruments
gripple-handed
gris-amber
gris-de-lin
gris-gris
grist to the mill
grist to your mill
grit cell
grit your teeth
grizzly bear
grizzly-bear cactus
groaning board
groaning cake
groaning chair
groans of roaring wind and rain
grocery store
grog blossom
grog lifter
groin point
groin rib
groin vault
grommet nut
groo-groo
groom's cake
groom-porter
groove board
groove on
groove-billed
grooving plane
grooving saw
grope for
grope in the dark
gros de Londres
gros de Tours
gros de naples
gros grain
gros point
gros points
gros tournois
gross amount
gross behavior
gross body
gross credulity
gross domestic product
gross falsehood
gross ignorance
gross income
gross injustice
gross interest
gross lift
gross national product
gross out
gross profit
gross receipts
gross register ton
gross register tonnage
gross ton
gross tonnage
gross up
gross weight
gross-beak
gross-bodied
gross-brained
gross-featured
gross-fed
gross-headed
gross-jawed
gross-lived
gross-mannered
gross-minded
gross-money
gross-money pool
gross-natured
gross-pated
gross-witted
grossly overpriced
grotto blue
ground alert
ground almond
ground angling
ground annual
ground annualer
ground ash
ground bait
ground ball
ground bass
ground beam
ground beef
ground beetle
ground birch
ground box
ground bridge
ground bundle
ground burnut
ground cable
ground cedar
ground centaury
ground chain
ground cherry
ground chestnut
ground chuck
ground circuit
ground cistus
ground clamp
ground cloth
ground clutter
ground coat
ground cock
ground color
ground combat
ground connection
ground control
ground control of aircraft
ground cover
ground crew
ground cricket
ground cuckoo
ground current
ground cypress
ground detector
ground dove
ground down
ground effect machine
ground elder
ground elevation
ground fern
ground finch
ground fir
ground fire
ground flax
ground flea
ground floor
ground fog
ground forces
ground form
ground game
ground gas
ground glass
ground gold-flower
ground goldenrod
ground goldflower
ground grue
ground hard and fast
ground hemlock
ground hog
ground holly
ground honeysuckle
ground ice
ground itch
ground ivory flower
ground ivy
ground jasmine
ground joist
ground juniper
ground lag
ground landlord
ground lark
ground laurel
ground layer
ground lead
ground lease
ground lemon
ground level
ground lily
ground line
ground liverwort
ground lizard
ground log
ground loop
ground mahogany
ground mail
ground mallow
ground maple
ground meristem
ground mine
ground mold
ground moss
ground net
ground noise
ground note
ground oak
ground observer
ground on
ground out
ground owl
ground parakeet
ground parrot
ground pea
ground pearl
ground pig
ground pigeon
ground pike
ground pine
ground pink
ground pistachio
ground plan
ground plane
ground plate
ground plum
ground provisions
ground puppy
ground radar
ground raspberry
ground rat
ground rattan
ground rattler
ground rent
ground rent insurance
ground robin
ground roller
ground rope
ground round
ground row
ground rule
ground rules
ground saligot
ground school
ground sea
ground seal
ground shark
ground shield
ground skidder
ground sloth
ground sluice
ground snake
ground sparrow
ground speed
ground squirrel
ground staff
ground starling
ground state
ground strake
ground stroke
ground substance
ground sweet
ground swell
ground table
ground tackle
ground test
ground tester
ground thistle
ground thrush
ground tier
ground timbers
ground tissue
ground tit
ground tone
ground tow
ground track
ground troops
ground vine
ground warbler
ground water
ground wave
ground ways
ground willow
ground wire
ground worm
ground wren
ground yew
ground your arms
ground zero
ground-ash
ground-attack fighter
ground-bait
ground-bird
ground-cherry
ground-control approach
ground-controlled approach
ground-down
ground-effect machine
ground-fast
ground-floor
ground-hog
ground-hog day
ground-ice
ground-ivy
ground-line
ground-man
ground-nut
ground-pea
ground-pine
ground-plan
ground-plate
ground-plot
ground-rent
ground-sea
ground-sheet
ground-sluicer
ground-squirrel
ground-squirrel pea
ground-support aircraft
ground-swell
ground-tackle
ground-to-air
ground-to-ground
ground-water level
grounded on
groundhog day
grounding connection
groundless rumor
groundnut oil
grounds for belief
grounds for war
grounds keeper
groundsel bush
groundsel tree
group agglutination
grow better
grow bright
grow cold
grow dark
grow dim
grow fat
grow from
grow hair
grow into
grow larger
grow light
grow like a weed
grow lush
grow old
grow on
grow on one
grow out of
grow over
grow pale
grow rank
grow red
grow rich
grow thick
grow to
grow together
grow up
grow weaker
grow weary
grow worse
growing degree-day
growing like a mushroom
growing lush
growing old
growing pains
growing point
growing rank
growing season
growing up
growl at
grown at
grown old
grown up
grown woman
grown-up
grown-upness
growth factor
growth force
growth form
growth fund
growth hormone
growth regulator
growth ring
growth shares
growth stock
grozing iron
grozing-iron
gru-gru
grub ax
grub beam
grub hoe
grub hook
grub out
grub plank
grub saw
grub screw
grub street
grub up
grub's on
grub-
grub-prairie
grub-street
grudging consent
grudging thanks
grugru beetle
grugru grub
grugru nut
grugru palm
grugru worm
grundy-swallow
grunt and sweat
grunting ox
gru-
guadalupe plum
guaiac reaction
guaiac test
guaiacol benzoate
guaiacol carbonate
guaiacum wood
guanay cormorant
guar gum
guarantee association
guarantee company
guarantee engineer
guaranteed annual income
guaranteed annual wage
guaranteed bond
guided missile cruiser
guided wave
guider-in
guiding light
guiding principle
guiding principles
guiding star
guiding telescope
guild merchant
guild socialism
guild socialist
guild tree
guild-brother
guild-hall
guild-socialistic
guillotine amputation
guillotine shears
guilt offering
guilt-feelings
guilty act
guilty conscience
guilty verdict
guilty-cup
guinea cock
guinea flower
guinea fowl
guinea gold
guinea goose
guinea grains
guinea grass
guinea hen
guinea pepper
guinea pig
guinea rush
guinea sorrel
guinea trade
guinea worm
guinea-cock
guinea-fowl
guinea-hen
guinea-hen flower
guinea-hen weed
guinea-man
guinea-pea
guinea-pig
guipure lace
guise dancer
guit-guit
guitar fiddle
guitar mandolin
guitar plant
guitar wood
guitar-picker
guitar-shaped
gulf rupee
gulf stream
gulf-weed
gull chaser
gull grass
gull gray
gull teaser
gull wing
gull-billed
gull-like
gull-wing
gullet plate
gullet worm
gulleting file
gullible person
gully erosion
gully knife
gully root
gully washer
gully-raker
gulp down
gulper eel
gum acacia
gum acaroides
gum accroides
gum acid
gum acroids
gum aloes
gum ammoniac
gum angico
gum anime
gum animi
gum arabic
gum archipin
gum benjamin
gum benzoin
gum boot
gum bush
gum butea
gum camphor
gum cistus
gum copal
gum tree
gum turpentine
gum up
gum up the works
gum water
gum-bichromate
gum-dichromate
gum-gum
gum-lac
gum-lac insect
gum-myrtle
gum-resinous
gum-saline
gum-shrub
gum-top
gum-top tree
gum-tree
gumbo grass
gumbo lily
gumbo limbo
gumbo soil
gumbo-limbo
gumbo-limbos
gumby bird
gummed up
gumming disease
gumming spade
gummy-legged
gumshoe man
gun assembler
gun barrel
gun bearer
gun boat
gun bore
gun breech
gun brig
gun captain
gun carriage
gun chamber
gun crew
gun deck
gun director
gun dog
gun down
gun emplacement
gun fight
gun fighter
gun fighting
gun firing
gun for
gun forger
gun forging
gun glaze
gun iron
gun lathe
gun loader
gun locksmith
gun makes
gun metal
gun moll
gun money
gun mount
gun park
gun parts
gun pendulum
gun pit
gun platform
gun power
gun room
gun sight
gun slide
gun tackle
gun-barrel lathe
gun-boat
gun-carrying
gun-cleaning
gun-cotten
gun-deck
gun-directing radar
gun-equipped
gun-man
gun-metal
gun-metal gray
gun-mounted
gun-rivet
gun-room
gun-shot
gun-shy
gun-shyness
gun-stock
gun-testing
gun-toting
gunboat diplomacy
gunboat system
gunebo lily
Hung ho
gung-ho
gunk hole
gunnery mission
gunnery officer
gunnery sergeant
gunny bag
gunny cloth
gunny sack
gunny-bag
gunong api
gunpowder hammer
gunpowder tea
guns and launchers
gunstock stile
gunter iron
gunter lug
gunter rig
gunter's chain
gurgeon stopper
gurgina balsam
guri bori
gurjun balsam
guru nut
gush out
gush over
gushing rain
gusset plate
gusset stay
gussied up
gussy up
gustatory cell
gustatory delightfulness
gut course
gut reaction
gut response
gut spinner
gut with fire
gut-ache
gute Nacht
guten Abend
guten Morgen
guten Tag
gutless wonder
gutta balata
gutta dujan
gutta gamba
gutta gerip
gutta hangkang
gynocardia oil
gyp artist
gyp joint
gyp-room
gypsum burner
gypsum pink
gypsum plaster
gypsy capstan
gypsy moth
gypsy scale
gypsy setting
gypsy winch
gypsy-like
gyr-
gyre carline
gyre carling
gyre upward
gyring up
gyro horizon
gyro mechanism
gyro pelorus
gyro repeater
gyro-
gyromagnetic ratio
gyroscopic compass
gyroscopic pilot
gyroscopic stabilizer
gyrostatic compass
h and c
h-bar
h-bomb
ha ha
ha-Nasi
ha-ha
hab-nab
habeas corpora
habeas corpus
habeas corpus ad prosequendum
habeas corpus ad subjiciendum
habeas corpus ad testificandum
habeas corpus cum causa
habere facias possessionem
habere facias seisinam
habit pattern
habit shirt
habit spasm
habit-forming
habitat form
habitat group
habitual criminal
habitual drunkenness
habitual liar
habitual offender
habitual smoking
hack board
hack file
hack hammer
hack house
hack it
hack out a deal
hack saw
hack watch
hack writer
hack-
hack-me-tack
hack-work
hacking coat
hacking jacket
hacking knife
hacking out a deal
hackle fly
hackney carriage
hackney chair
hackney coach
hackney pony
hackney-carriage
hackney-chair
hackney-coach
hackney-man
hackneyed expression
hackneyed saying
hacksaw fern
had best
had better
had it
had rather
haem-
haema-
haemat-
haemato-
haemato-crystallin
haemato-globulin
haemo-
haemorrhagic measles
hag clog
hag moth
hag-boat
hag-ridden
hag-taper
hagi-
hagio-
haikwan tael
hail and speak
hail fellow
hail from
hail insurance
hail mary
hail-fellow
hail-fellow well met
hail-fellow-well-met
hail-shot
hailing distance
hair ball
hair bleacher
hair braid
hair bramble
hair brown
hair cap moss
hair carder
hair cell
hair clipper
hair color
hair compass
hair crimper
hair curler
hair drawer
hair dye
hair dyeing
hair dyer
hair eel
hair fern
hair follicle
hair glove
hair grass
hair grip
hair hygrometer
hair kiln
hair lacquer
hair mattress
hair moss
hair moth
hair net
hair of the dog
hair of the dog that bit one
hair of the dog that bit you
hair oil
hair orchid
hair palm
hair pencil
hair powder
hair pyrites
hair remover
hair restorer
hair ribbon
hair salt
hair seal
hair sheep
hair shirt
hair sieve
hair slide
hair snake
hair sofa
hair sorter
hair space
hair straightener
hair stroke
hair stylist
hair tonic
hair trigger
hair trunk
hair wash
hair washer
hair waver
hair’s-breadth
hair-branch tree
hair-check
hair-checking
hair-drawn
hair-drier
hair-fibered
hair-grass
hair-lace
hair-line
hair-lip
hair-powder
hair-raiser
hair-raising
hair-shirt
hair-sieve
hair-splitter
hair-splitting
hair-stemmed
hair-streak
hair-stroke
hair-trigger
hair-waving
hair-worm
hairbreadth escape
hairbrush cactus
haircap moss
hairpin bend
hairpin megaron
hairpin turn
hairs-breadth
hairy frog
hairy heart
hairy vetch
hairy wattle
hairy willowherb
hairy woodpecker
hairy-armed
hairy-chested
hairy-clad
hairy-dog story
hairy-eared
hairy-faced
hairy-foot
hairy-footed
hairy-fruited
hairy-handed
hairy-headed
hairy-legged
hairy-looking
hairy-skinned
hairy-tailed mole
hairytail mole
hal-
halade mystai
halberd fern
halberd-headed
halberd-leaved
halberd-shaped
halcyon bird
halcyon days
hale and hearty
hale bind
hale into court
hale old age
hale water
hale-nut
half G
half Wellington
half a C
half a chance
half a dozen
half a gale
half a hundred
half a jiffy
half a mo
half a second
half a shake
half after
half an eye
half an idea
half anatropous
half angel
half armor
half asleep
half aunt
half ball
half believe
half binding
half bird
half bishop
half block
half blood
half board
half boot
half boots
half brau
half broad
half brother
half bull
half butt
half cadence
half cent
half chronometer
half circle
half close
half cloth
half cock
half column
half cone
half court
half cousin
half cross stitch
half crown
half curlew
half cushion
half davit
half deck
half dime
half diphthong
half dollar
half eagle
half facet
half frame
half gainer
half galley
half gerund
half grand
half header
half hitch
half holiday
half hose
half hour
half hunter
half island
half joe
half landing
half large
half leather
half life
half line
half mask
half measure
half measures
half mile
half model
half mourning
half nelson
half nephew
half niece
half noble
half note
half nut
half past
half pay
half pint
half plane
half points
half port
half principal
half rations
half ray
half relief
half rest
half rhyme
half ring
half ripsaw
half royal
half rupee
half scholar
half seal
half seas over
half sheave
half shell
half shirt
half shoe
half sir
half sister
half size
half small
half snipe
half sol
half sole
half sovereign
half space
half speed
half step
half stitch
half stock
half story
half stuff
half term
half tide
half timber
half time
half tint
half title
half tone
half trap
half twist
half uncial
half uncle
half volley
half vowel
half year
half-
half-American
half-Americanized
half-Anglicized
half-Aristotelian
half-Asian
half-Asiatic
half-Beaufort scale
half-Christian
half-Confederate
half-Creole
half-Dacron
half-Elizabethan
half-English
half-French
half-German
half-Greek
half-Hessian
half-Irish
half-Italian
half-Latinized
half-Mexican
half-Mohammedan
half-Moslem
half-Muhammadan
half-Muslim
half-Russian
half-Scottish
half-Semitic
half-Shakespearean
half-Spanish
half-a-crown
half-a-dollar
half-abandoned
half-accustomed
half-acquainted
half-acquiescent
half-acquiescently
half-acre
half-addressed
half-admiring
half-admiringly
half-admitted
half-admittedly
half-adream
half-affianced
half-afloat
half-afraid
half-agreed
half-alike
half-alive
half-altered
half-and-half
half-and-half measures
half-angrily
half-angry
half-annoyed
half-annoying
half-annoyingly
half-ape
half-armed
half-armor
half-ashamed
half-ashamedly
half-asleep
half-assed
half-awake
half-backed
half-baked
half-bald
half-ball
half-banked
half-baptize
half-barbarian
half-bare
half-barrel
half-beak
half-beam
half-begging
half-begun
half-belief
half-believed
half-believing
half-bent
half-binding
half-bleached
half-blind
half-blind joint
half-blindly
half-blood
half-blooded
half-blowed
half-blue
half-board
half-boiled
half-boiling
half-boot
half-bound
half-bowl
half-breadth plan
half-bred
half-breed
half-brilliant cut
half-broken
half-brother
half-buried
half-burned
half-burning
half-bushel
half-butt
half-calf
half-cap
half-carried
half-caste
half-cell
half-cent
half-centuries
half-century
half-chanted
half-cheek
half-civil
half-civilized
half-civilly
half-clad
half-cleaned
half-clear
half-clearly
half-climbing
half-closed
half-closing
half-clothed
half-coaxing
half-coaxingly
half-cock
half-cocked
half-colored
half-completed
half-concealed
half-concealing
half-confessed
half-congealed
half-conquered
half-conscious
half-consciously
half-conservative
half-conservatively
half-consonant
half-consumed
half-consummated
half-contemptuous
half-contemptuously
half-contented
half-contentedly
half-convicted
half-convincing
half-convincingly
half-cooked
half-cordate
half-corrected
half-cotton
half-counted
half-courtline
half-cousin
half-covered
half-cracked
half-crazed
half-crazy
half-critical
half-critically
half-crown
half-crumbled
half-crumbling
half-cured
half-cut
half-dark
half-day
half-dazed
half-dead
half-dead escapement
half-deaf
half-deafened
half-deafening
half-decade
half-deck
half-decked
half-decker
half-defiant
half-defiantly
half-deified
half-demented
half-democratic
half-demolished
half-denuded
half-deprecating
half-depreciatingly
half-deserved
half-deservedly
half-destroyed
half-developed
half-digested
half-dime
half-discriminated
half-discriminating
half-disposed
half-divine
half-divinely
half-dollar
half-done
half-door
half-dozen
half-dram
half-dressed
half-dressedness
half-dried
half-drowned
half-drowning
half-drunk
half-drunken
half-dug
half-dying
half-eagle
half-earnest
half-earnestly
half-eaten
half-ebb
half-educated
half-embraced
half-embracing
half-embracingly
half-enamored
half-enforced
half-erased
half-evaporated
half-evaporating
half-evergreen
half-expectant
half-expectantly
half-exploited
half-exposed
half-face
half-face view
half-faced
half-false
half-famished
half-farthing
half-fascinated
half-horse
half-hour
half-hour glass
half-hourly
half-human
half-hungered
half-hunter
half-hypnotized
half-imperial
half-important
half-importantly
half-inch
half-inclined
half-indignant
half-indignantly
half-inferior
half-informed
half-informing
half-informingly
half-ingenious
half-ingeniously
half-ingenuous
half-ingenuously
half-inherited
half-insinuated
half-insinuating
half-insinuatingly
half-instinctive
half-instinctively
half-intellectual
half-intellectually
half-intelligible
half-intelligibly
half-intonated
half-intoxicated
half-invalid
half-invalidly
half-iron
half-island
half-jack
half-jelled
half-joking
half-jokingly
half-justified
half-knot
half-know
half-languaged
half-languishing
half-lap joint
half-lapped
half-lattice girder
half-latticed
half-learned
half-learnedly
half-learning
half-leather
half-left
half-length
half-liberal
half-liberally
half-life
half-life period
half-light
half-lined
half-linen
half-liter
half-lived
half-lives
half-long
half-looper
half-lop
half-lunatic
half-lunged
half-mad
half-made
half-madly
half-madness
half-marked
half-marrow
half-mast
half-masticated
half-matured
half-meant
half-measure
half-melted
half-mental
half-mentally
half-merited
half-miler
half-minded
half-minute
half-minute glass
half-miseducated
half-misunderstood
half-mitten
half-monitor
half-monthly
half-moon
half-moral
half-mourning
half-mumbled
half-mummified
half-naked
half-nelson
half-nephew
half-niece
half-noble
half-normal
half-normally
half-note
half-numb
half-nylon
half-obiterated
half-offended
half-on
half-one
half-open
half-opened
half-oriental
half-orphan
half-oval
half-oxidized
half-pace
half-pay
half-peck
half-petrified
half-pike
half-pint
half-pipe
half-pitch
half-plane
half-plate
half-playful
half-playfully
half-pleased
half-pleasing
half-plucked
half-port
half-pound
half-pounder
half-praised
half-praising
half-present
half-price
half-profane
half-professed
half-profile
half-proletarian
half-protested
half-protesting
half-proved
half-proven
half-provocative
half-quarter
half-quartern
half-quarterpace
half-questioning
half-questioningly
half-quire
half-quixotic
half-quixotically
half-radical
half-radically
half-rater
half-raw
half-rayon
half-reactionary
half-read
half-reasonable
half-reasonably
half-reasoning
half-rebellious
half-rebelliously
half-reclaimed
half-reclined
half-reclining
half-refined
half-regained
half-reluctant
half-reluctantly
half-remonstrant
half-repentant
half-republican
half-retinal
half-revealed
half-reversed
half-rhyme
half-right
half-ripe
half-ripened
half-riasted
half-rod
half-romantic
half-romantically
half-rotted
half-rotten
half-round
half-round file
half-rueful
half-ruefully
half-ruined
half-run
half-russia
half-sagittate
half-savage
half-savagely
half-saved
half-seal
half-seas over
half-seas-over
half-second
half-section
half-seen
half-sensed
half-serious
half-seriously
half-severed
half-shade
half-shamed
half-share
half-shared
half-sheathed
half-shoddy
half-shot
half-shouted
half-shroud
half-shrub
half-shrubby
half-shut
half-shy
half-shyly
half-sib
half-sibling
half-sighted
half-sightedly
half-sightedness
half-silk
half-sinking
half-sister
half-size
half-sleeve
called sleeve
half-sleeved
called sleeved
half-slip
called slip
half-smile
called smile
half-smiling
called smiling
half-smilingly
called smilingly
half-smothered
called smothered
half-snipe
called snipe
half-sole
called sole
half-soled
called soled
half-solid
called solid
half-soling
called soling
half-souled
called souled
half-sovereign
called sovereign
half-spoonful
called spoonful
half-spun
called spun
half-squadron
called squadron
half-staff
called staff
half-starved
called starved
half-starving
called starving
half-step
called step
half-sterile
called sterile
half-stock
called stock
half-stocking
called stocking
half-stopped
called stopped
half-strain
called strain
half-strained
called strained
half-stroke
called stroke
half-strong
called strong
half-stuff
called stuff
half-s subdued
called subdued
half-submerged
called submerged
half-successful
called successful
half-successfully
called successfully
half-succulent
called succulent
half-suit
called suit
half-sung
called sung
half-sunk
called sunk
half-sunken
called sunken
half-swing
called swing
half-sword
called sword
half-syllabled
called syllabled
half-taught
called taught
half-tearful
called tearful
half-tearfully
called tearfully
half-teaspoonful
called teaspoonful
half-tented
called tented
half-terete
half-term
half-theatrical
half-thickness
half-thought
half-tide
half-tide dock
half-timber
half-timbered
half-time
half-time intermission
half-timer
half-title
half-title page
half-tone
half-tongue
half-track
half-tracked
half-trained
half-training
half-translated
half-true
half-truth
half-truths
half-turn
half-turn stair
half-turned
half-turning
half-understood
half-undone
half-used
half-utilized
half-value layer
half-veiled
half-vellum
half-verified
half-vexed
half-visibility
half-visible
half-volley
half-volleyed
half-volleyer
half-volleying
half-vowelish
half-waking
half-wave rectification
half-wave rectifier
half-way
half-whispered
half-whisperingly
half-white
half-wicket
half-wild
half-wildly
half-willful
half-willfully
half-winged
half-wit
half-witted
half-wittedly
half-wittedness
half-womanly
half-won
half-woolen
half-word
half-world
half-worsted
half-woven
half-written
half-year
half-yearly
halfhead bedstead
halfhearted thanks
halfpenny post
halftone engraving
halfway covenant
halfway file
halfway house
halfway in the middle
halfway mark
halfway measures
halfway place
halfway point
halfway station
halibut-liver oil
haling hands
hall bedroom
hall of residence
hall stand
hall tree
hall-door
hall-mark
hall-of-famer
hallelujah meter
hallow-e’en
hallow-tide
hallowed be Thy Name
hallucinatory painting
hallux valgus
halo blight
halo spot
halo-
halo-bright
halo-crowned
halo-girt
halogen gas
halter-sack
halter-wise
halting meters
halve together
ham actor
ham and eggs
ham it up
ham operator
ham rig
ham sandwich
ham shack
ham station
ham steak
ham transmitter
ham-fisted
ham-handed
ham-handedness
hamadryas baboon
hamber line
hamber-line
hamburg steak
hamburger stand
hame tug
hamitic languages
hamito-semitic
hamito-semitic languages
hammer and sickle
hammer and tongs
hammer at
hammer away
hammer away at
hammer ax
hammer beam
hammer blow
hammer break
hammer butt
hammer cap
hammer crane
hammer drill
hammer dulcimer
hammer gun
hammer into your head
hammer lock
hammer maker
hammer mill
hammer molding
hammer out
hammer out a deal
hammer oyster
hammer pick
hammer pike
hammer pond
hammer price
hammer rail
hammer scale
hammer sedge
hammer shank
hammer shell
hammer slag
hammer spring
hammer tail
hammer throw
hammer thrower
hammer throwing
hammer tongs
hammer welding
hammer-beam
hammer-cloth
hammer-hard
hammer-harden
hammer-head
hammer-proof
hammer-refined
hammer-shaped
hammer-strong
hammer-weld
hammer-welded
hammer-wrought
hammered work
hammerhead shark
hammerheaded shark
hammering glass
hammering out a deal
hamming up
hammock batten
hammock berthing
hammock clew
hammock cloth
hammock netting
hammy acting
hance arch
hancing piece
hand a sail
hand alphabet
hand and foot
hand and glove
hand ax
hand baggage
hand bell
hand blocker
hand brake
hand brush
hand camera
hand cannon
hand cheese
hand clapping
hand cleaner
hand composition
hand cream
hand director
hand down
hand drill
hand driller
hand dynamometer
hand embroidery
hand feeder
hand firer
hand fishing
hand flail
hand for hand
hand forward
hand gallop
hand gear
hand glass
hand goniometer
hand graver
hand grenade
hand guard
hand gun
hand hoe
hand hoer
hand hook
hand horn
hand in
hand in glove
hand paper
hand pitching
hand planer
hand plant
hand plate
hand play
hand plow
hand polisher
hand press
hand print
hand promise
hand pump
hand pumper
hand punch
hand riveter
hand roller
hand rope
hand running
hand screw
hand scroll
hand set
hand sewer
hand signal
hand spar
hand spinning
hand splicer
hand stitcher
hand sweep
hand tap
hand tight
hand tissue
hand to hand
hand to mouth
hand tool
hand tooling
hand towel
hand tree
hand trimmer
hand truck
hand turner
hand up an indictment
hand vote
hand weaver
hand weeder
hand worker
hand your name down to posterity
hand's turn
hand's-breadth
hand-ax
call
hand-barrow
call-beaten
hand-blocked
hand-blown
hand-bound
hand-broad
hand-broken
hand-built
hand-canter
hand-carry
hand-cart
hand-carve
hand-chase
hand-churn drill
hand-clasp
hand-clean
hand-closed
hand-colored
hand-comb
hand-crushed
hand-culverin
hand-cut
hand-dress
hand-drill
hand-drop
hand-dug
hand-embroidered
hand-fed
hand-feed
hand-feeding
hand-fill
hand-filled
hand-fire
hand-fives
hand-fold
hand-footed
hand-glass
hand-grenade
hand-habend
hand-held
hand-hewn
hand-hidden
hand-high
hand-in
hand-in-glove
hand-in-hand
hand-knit
hand-knitted
hand-knitting
hand-knotted
hand-labour
hand-lettered
hand-line
hand-liner
hand-list
hand-loom
hand-lapped
hand-made
hand-me-down
hand-me-downs
hand-mill
hand-minded
hand-mindedness
hand-mix
hand-mold
hand-off
hand-operated
hand-organist
hand-out
hand-packed
hand-pick
hand-picked
hand-pitched
hand-play
hand-pollinate
hand-pollination
hand-power
hand-presser
hand-pressman
hand-printing
hand-pump
hand-rail
hand-rear
hand-reared
hand-rinse
hand-rivet
hand-roll
hand-rub
hand-rubbed
hand-sent
hand-sew
hand-sewn
hand-shackled
hand-sort
hand-splice
hand-split
hand-spun
hand-staff
hand-stamp
hand-stamped
hand-stitch
hand-stuff
hand-tailor
hand-tailored
hand-taut
hand-thrown
hand-tied
hand-tight
hand-to-hand
hand-to-hand combat
hand-to-hand fight
hand-to-mouth
hand-to-mouth existence
hand-tooled
hand-treat
hand-trim
hand-turn
hand-vice
hand-wash
hand-weave
hand-weed
hand-worked
hand-woven
hand-wrist
hand-wrought
handed down
handflower tree
handful of thumbs
handicap race
handicapped person
handicapped, the
handicraft economy
handie-talkie
handing over
handkerchief table
handle bar
handle bars
handle blank
handle it just right
handle to your name
handle with gloves
handle with kid gloves
handle with velvet gloves
handle yourself
handle yourself well
handle-bar mustache
handlebar moustache
handmaid moth
handrail bolt
hands down
hands of
hands-down
hands-off
hands-off policy
handsome fortune
handsome-featured
handwriting expert
handwriting on the wall
handy at
handy man
handy-andies
handy-andy
handy-billy
handy-dandy
handy-pandy
handy-spandy
hang about
hang about at
hang around
hang around at
hang around with
hang back
hang behind
hang by a thread
hang by the eyelids
hang by the neck
hang crepe
hang down
hang fire
hang glider
hang heavy on your hands
hang in
hang in doubt
hang in effigy
hang in space
hang in suspense
hang in the balance
hang in there
hang it
hang like a millstone
hang net
hang off
hang on
hang on for dear life
hang on like a bulldog
hang on like a leech
hang on the lips
hang on the lips of
hang on the skirts of
hang on the sleeve of
hang on to
hang on your words
hang one on
hang open
hang out
hang out at
hang out with
hang out your shingle
hang over
hang over your head
hang something on
hang the expense
hang the jury
hang together
hang tough
hang up
hang up your hat
hang up your shingle
hang up your spurs
hang upon
hang upon the skirts of
hang your head
hang your lip
hang-
hang-back
hang-by
hang-choice
hang-dog
hang-down
hang-fair
hang-glider
hang-head
hang-nail
hang-over
hang-up
hangdog look
hanger board
hanger bolt
hanger-back
hanger-on
hanger-up
hangers-on
hanging buttress
hanging by a thread
hanging compass
hanging fixture
hanging gardens
hanging indention
hanging lie
hanging on
hanging out
hanging over your head
hanging post
hanging rail
hanging scroll
hanging step
hanging stile
hanging valley
hanging wall
hanging-drop culture
hangman's hands
hangman's knot
hangman's rope
hank-type antenna
hanker after
hankey-pankey
hankey-panky
hanse house
hansen's disease
hansom cab
hapax legomena
hapax legomenon
hapl-
haplo-
haploid number
happen along
happen as expected
happen by
happen by chance
happen on
happen over and over
happen to be
happen together
happen upon
happen what may
happy as a baby boy
happy as a clam at high water
happy as a king
happy as a lark
happy as the day is long
happy chance
happy expectation
happy family
happy fortune
happy hour
happy hunting ground
happy landing
happy medium
happy thought
happy warrior
happy-go-luckiness
happy-go-lucky
happy-go-luckyism
hara-kin
hara-kiri
harbinger-of-spring
harbingers-of-spring
harbor a design
harbor a feeling
harbor an idea
harbor deck
harbor doubts
harbor due
harbor furl
harbor gasket
harbor log
harbor master
harbor of refuge
harbor pilot
harbor porpoise
harbor resentment
harbor revenge
harbor seal
harbor stow
harbor suspicions
harbor the hope
harbor watch
harbour master
harbour seal
hard alee
hard and fast
hard and fast rule
hard aport
hard as a rock
hard as nails
hard asteerboard
hard at it
hard at work
hard aweather
hard bargain
hard binding
hard blow
hard book
hard bop
hard by
hard candy
hard cash
hard chancre
hard cheese
hard cider
hard clam
hard coal
hard copy
hard core
hard court
hard currency
hard dinkum
hard drink
hard drinker
hard drug
hard fact
hard feelings
hard fern
hard fescue
hard frost
hard goods
hard grass
hard grind
hard ground
hard hat
hard head
hard heart
hard image
hard information
hard job
hard knocks
hard labor
hard labour
hard landing
hard lay
hard lead
hard life
hard line
hard lines
hard liquor
hard look
hard lot
hard luck
hard man with a buck
hard maple
hard market
hard mass
hard masse
hard master
hard money
hard news
hard nut to crack
hard oat grass
hard of belief
hard of hearing
hard of heart
hard on
hard on the eyes
hard over
hard palate
hard paste
hard pinch
hard pressed
hard pull
hard put
hard put to it
hard resin
hard resins
hard road to travel
hard rock
hard roe
hard roll
hard row of stumps
hard row to hoe
hard rubber
hard sauce
hard sell
hard shadow
hard shell
hard shoulder
hard sign
hard solder
hard stuff
hard tick
hard times
hard to believe
hard to please
hard to understand
hard tube
hard up
hard upon
hard usage
hard use
hard water
hard weather
hard wheat
hard winter
hard word
hard words
hard work
hard-acquired
hard-and-fast
hard-and-fastness
hard-bake
hard-baked
hard-barked
hard-beating
hard-bill
hard-billed
hard-biting
hard-bitted
hard-bitten
hard-bittenness
hard-boil
hard-boiled
hard-boiledness
hard-boned
hard-bought
hard-bred
hard-coated
hard-contested
hard-cooked
hard-core
hard-core pornography
hard-cover book
hard-cured
hard-drawn
hard-dried
hard-drinking
hard-driven
hard-driving
hard-drying
hard-earned
hard-edge
hard-edged
hard-eyed
hard-faced
hard-fated
hard-favored
hard-favoredness
hard-favoured
hard-favouredness
hard-feathered
hard-featured
hard-featuredness
hard-fed
hard-fighting
hard-finished
hard-fired
hard-fisted
hard-fistedness
hard-fleshed
hard-fought
hard-gained
hard-got
hard-grained
hard-haired
hard-handed
hard-handled
hard-hat
hard-headed
hard-heart
hard-hearted
hard-hit
hard-hitting
hard-hitting campaign
hard-iron
hard-laid
hard-learned
hard-line
hard-living
hard-looking
hard-luck guy
hard-minded
hard-mouthed
hard-natured
hard-nosed
hard-nosedness
hard-of-hearing
hard-of-hearing aid
hard-pan
hard-paste porcelain
hard-plucked
hard-pressed
hard-pushed
hard-ridden
hard-riding
hard-rock geology
hard-run
hard-set
hard-shell
hard-shell clam
hard-shell crab
hard-shelled
hard-skinned
hard-spirited
hard-spun
hard-surface
hard-surfaced
hard-swearing
hard-tack
hard-timbered
hard-trotting
hard-tube pulser
hard-upness
hard-uppishness
hard-used
hard-visaged
hard-wearing
hard-witted
hard-won
hard-wooded
hard-worked
hard-working
hard-wrought
hard-wrung
harden off
harden up
harden your heart
hardening of the arteries
hardhead sponge
hardly a chance
hardly any
hardly anything
hardly ever
hardly expect
hardly like
hardly possible
hardly the thing
hardly touch
hardly wait
hardness of hearing
hardness of heart
hardness scale
hardtop convertible
hardware cloth
hardware store
hardwood tree
hardy ageratum
hardy amaryllis
hare and hounds
hare family
hare's-ear
hare's-foot
hare's-foot clover
hare's-foot fern
hare-brain
hare-brained
hare-eyed
hare-finder
hare-lip
hare-mad
harebrained idea
harem girl
hari-kari
hariai grass
haricot vert
hark back
hark back to
hark ye
harken to
harlequin bug
harlequin ca
harlequin cabbage bug
harlequin duck
harlequin glasses
harlequin opal
harlequin snake
harlequin table
harmless teasing
harmonic analysis
harmonic close
harmonic conjugates
harmonic flute
harmonic interval
harmonic mean
harmonic minor
harmonic minor scale
harmonic motion
harmonic progression
harmonic proportion
harmonic series
harmonic tone
harmonious relationship
harmonize with
harmony of the spheres
harness bull
harness cask
harness eye
harness hitch
harness horse
harness leather
harness maker
harness making
harness plate
harness race
harness racer
harness racing
harness tub
harness up
harness-bearer
harness-cask
harnessed antelope
harp groat
harp guitar
harp on
harp seal
harp shell
harp shilling
harp upon
harp upon one string
harp upon the same string
harp-shaped
harping-iron
harpoon fork
harpoon gun
harpoon log
harpoon rocket
harpy bat
harpy eagle
harp-y-bat
harp-y-eagle
harp-y-footed
harrier eagle
harrier hawk
harrow the ear
harry out
harry to destruction
harsh and shrill sounds
harsh sound
harsh-blustering
harsh-featured
harsh-grating
harsh-looking
harsh-mannered
harsh-sounding
harsh-syllabled
harsh-tongued
harsh-voiced
hart beest
hart clover
hart thorn
hart's tongue
hart's-tongue
harts-tongue
hartshorn bush
hartshorn plant
hartshorn plantain
harum-scarum
harum-scarumness
harvest bell
harvest bug
harvest dinner
harvest doll
harvest festival
harvest fish
harvest fly
harvest home
harvest lady
harvest lily
harvest lord
harvest louse
harvest mite
harvest month
harvest moon
harvest mother
harvest mouse
harvest queen
harvest spider
harvest supper
harvest tick
harvest time
harvest work
harvest worker
harvest yarn
harvest-bug
harvest-field
harvest-lice
harvester ant
harvester-thresher
harvesting ant
has-been
hash house
hash mark
hash over
hash up
hash-slinger
hashab tree
hashed up
hasp lock
hassock grass
hasta la vista
hasta luego
hasta manana
hastato-
hasten off
hasten on
hasty conviction
hasty pudding
hasty retreat
hat blocker
hat carder
hat check
hat cleaner
hat dance
hat dyer
hat homage
hat hook
hat in hand
hat leather
hat lining
hat maker
hat money
hat palm
hat piece
hat pin
hat plant
hat rack
hat roller
hat shop
hat stand
hat tree
hat trick
hat trimming
hat-in-hand
hat-money
hat-shag
hat-shaped
hatch a plot
hatch boat
hatch box
hatch coamings
hatch deck
hatch mast
hatch money
hatch tackle
hatch up
hatch-boat
hatchet cactus
hatchet door
hatchet face
hatchet job
hatchet man
hatchet planimeter
hatchet stake
hatchet vetch
hatchet-faced
hatchet-shaped
hatching spine
hatching station
hate sheet
hate yourself for your actions
hated thing
hatha-yoga
hatted kit
haughty airs
haul around
haul down
haul down your colors
haul down your flag
haul in with
haul into court
haul off
haul over the coals
haul round
haul the wind
haul to
haul up
haul your wind
haulage incline
hauling down
haunch bone
haunch-bone
haunt the memory
haunt your thoughts
haunted with fear
hausse-col
haut couture
haut monde
haut-gout
haut-pas
haut-relief
haut-ton
hautbois strawberry
haute cole
haute couture
haute cuisine
haute ecole
haute mal
haute vulgarisation
haute-feuillite
haute-piece
have a BM
have a baby
have a bad time
have a bad time of it
have a ball
have a bee in your bonnet
have a bellyful
have a bellyful of
have a bent for
have a bias
have a big bazoo
have a big mouth
have a big nose
have a blind side
have a blind spot
have a bone in your neck
have a bone in your throat
have a bone to pick
have a bone to pick with
have a bone to pick with someone
have a bowel movement
have a brush with
have a bump for
have a cake in the oven
have a canary
have a care
have a case
have a case on
have a cat fit
have a catch
have a certain sameness
have a certain state
have a chance
have a chance at
have a change of heart
have a charmed life
have a chill
have a chip on your shoulder
have a clean bill of health
have a clear conscience
have a comedown
have a conniption
have a conniption fit
have a cozy chat
have a crow to pick
have a crow to pick with
have a crow to pluck
have a crow to pluck with
have a crow to pull with
have a crush on
have a demon
have a devil
have a devil in one
have a devil in you
have a disaffinity for
have a dram
have a drink
have a drop too much
have a dry run
have a duck fit
have a faculty for
have a falling-out
have a fancy for
have a feeling
have a fine time of it
have a finger in
have a finger in the pie
have a flair for
have a fling at
have a fondness for
have a free hand
have a free mind
have a friendly chat
have a funny feeling
have a gargle
have a gift for
have a go
have a go at
have a gold mine
have a good appetite
have a good chance
have a good head for
have a good knowledge of
have a good mind to
have a good time
have a good time of it
have a good word for
have a great mind to
have a guzzle
have a hand in
have a handful of thumbs
have a hard time of it
have a head on your shoulders
have a healthy lead
have a heart
have a heart of stone
have a heart-to-heart talk
have a hemorrhage
have a high opinion of
have a hold over
have a hunch
have a jag on
have a job
have a joker
have a joker in the deck
have a kicker
have a lech for
have a leg to stand on
have a little learning
have a little talk
have a long nose
have a look at
have a looksee
have a lot to do with
have a lot to say about
have a mash on
have a memory like a sieve
have a mind like a sieve
have a mind of your own
have a mind to
have a mint
have a misery
have a mishap
have a monkey on your back
have a mortgage-burning party
have a mote in the eye
have a near miss
have a nerve
have a nervous breakdown
have a nest egg
have a nice trip
have a nip
have a part in
have a partiality
have a percentage of
have a picture of
have a piece of
have a premonition
have a presentiment
have a rehearsal
have a relapse
have a relish of
have a right to
have a rightful claim to
have a rightful claim upon
have a run
have a run of luck
have a screw loose
have a sensation
have a short attention span
have a short fuse
have a short memory
have a short memory span
have a shot at
have a show of hands
have a skinful
have a slight chance
have a small chance
have a snootful
have a soft place in your heart
have a soft spot in your heart
have a stake in
have a storm in a teacup
have a storm in a teapot
have a string attached
have a stroke of luck
have a strong effect
have a swelled head
have a talent for
have a talk with
have a tantrum
have a tapeworm
have a taste for
have a temper
have a temper tantrum
have a tempest in a teacup
have a tempest in a teapot
have a tendency
have a tender heart
have a test run
have a theory
have a thick skin
have a thing about
have a thorough knowledge of
have a tiger by the tail
have a title to
have a tongue in your head
have a turn for
have a very red face
have a voice in
have a way with one
have a way with you
have a weakness for
have a will of your own
have a willing heart
have a wolf in your stomach
have a word with
have a yellow streak
have a yen for
have about enough of
have accounts to settle
have all the earmarks of
have all the features of
have all the luck
have all the money in the world
have all the signs of
have all to yourself
have all you can stand
have all you can take
have all your eyes about one
have all your eyes about you
have all your marbles
have all your wits about one
have all your wits about you
have a look at
have an account with
have an ague
have an alias
have an anchor to windward
have an attraction
have an ax to grind
have an ear for
have an ear to the ground
have an edge
have an edge on
have an entree
have an eye for
have an eye to
have an idea
have an idea of
have an impression
have an in
have an in with
have an income of
have an inkling
have an intimation
have an opportunity
have an overdose of
have an understanding
have an upright carriage
have and hold
have another crack
have another go
have another shot
have another think coming
have another try
have ants in your pants
have as a fulcrum
have as a guest
have as a lodger
have as many phases as the moon
have as your master
have at
have at a disadvantage
have at heart
have at it
have at your command
have at your disposal
have at your disposition
have at your elbow
have at your fingers' ends
have at your fingers' tips
have at your pleasure
have bats in the belfry
have bats in your belfry
have been around
have been through the mill
have being
have better things to do
have birth
have blood in your eyes
have by heart
have by rote
have charisma
have chilblains
have childlike faith in
have clean hands
have clout
have cold feet
have coming
have coming in
have confidence
have confidence in
have connection with
have consideration for
have constantly in your thoughts
have control of
have conversations
have courage
have currency
have cut your eyeteeth
have cut your wisdom teeth
have dead to rights
have dealings with
have deep feelings
have designs on
have difficulty
have done
have done with
have doubts
have down cold
have down pat
have drag
have duck bumps
have eating out of your hand
have effect
have energy
have enough
have every appearance of
have every indication of
have every intention
have every intention of
have every sign of
have everything going your way
have everything to learn
have evidence
have exclusive possession of
have exclusive rights to
have eyes for
have eyes only for
have faith
have faith in
have favorable odds
have for your own
have for your very own
have foreboding
have free play
have free scope
have full play
have fun
have good prospects
have goose bumps
have goose pimples
have goosebumps
have gooseflesh
have got
have got to
have green in the eye
have had it
have had its day
have had your day
have half a mind to
have hallucinations
have high visibility
have hot pants for
have in
have in contemplation
have in hand
have in mind
have in prospect
have in reserve
have in sight
have in store
have in store for
have in view
have in your eye
have in your grasp
have in your grip
have in your head
have in your mind
have in your possession
have in your power
have independent means
have influence
have influence over
have information about
have intercourse
have it
have it all over
have it all your own way
have it all your way
have it bad
have it both ways at once
have it break good for one
have it coming
have it easy
have it in for
have it made
have it out
have it out of
have it reported
have it soft
have it taped
have it up to here
have its place
have its seat in
have its slot
have its time
have knowledge
have knowledge of
have leverage
have life
have little in common
have little recall
have little to say
have little weight
have lots of laughs
have magnetism
have many irons in the fire
have means
have mercy upon
have money
have money to burn
have more than you can hold
have much ado with
have need to
have nine lives like a cat
have no alternative
have no association with
have no attention span
have no bounds
have no business
have no chance
have no choice
have no claim upon
have no conception
have no desire for
have no diffidence
have no doubt
have no ears
have no end
have no expectation
have no false modesty
have no fight left
have no hand in
have no idea
have no kick coming
have no liking for
have no limit
have no limits
have no lower to go
have no measures with
have no misgivings
have no more
have no notion
have no objection
have no opportunity
have no option but
have no patience with
have no plan
have no qualms
have no recollection of
have no regrets
have no relish for
have no remembrance of
have no reservations
have no right to
have no scruple of
have no second thoughts
have no secrets
have no self-doubt
have no shame
have no taste for
have no term
have no thought of
have no time for
have no time to lose
have no time to spare
have no title to
have no truck with
have no turning
have no use for
have no words for
have not a hope
have not a prayer
have nothing but time
have nothing in common
have nothing on
have nothing to do
have nothing to do with
have occasion for
have on
have on the brain
have on the edge of your memory
have on the hip
have on the tip of the tongue
have on the tip of your tongue
have on your hands
have on your mind
have on your shoulders
have one foot in the grave
have one for the road
have one to know
have origin
have other fish to fry
have other things to do
have out
have patience and endure
have peace one with another
have permission
have personality
have pity
have place
have play
have plenty of time
have plenty on the ball
have power
have power over
have preference
have prestige
have priority
have proof
have pull
have qualms
have quite enough
have rather
have recourse to
have regard for
have repercussions
have reservations
have run its course
have run out
have savvy
have scruples
have second thoughts
have seen better days
have seen your best days
have seen your day
have sex
have sexual relations
have simple faith in
have smarts
have someone on
have something
have something laid by
have something on
have something on the ball
have something on the brain
have something to draw on
have sown your wild oats
have sternway on
have subject
have suction
have suffrage
have suspicions
have tenure
have tenure of
have tenure of appointment
have that or nothing
have the advantage of
have the appearance of
have the ascendancy
have the audacity
have the bar sinister
have the best of
have the chances against one
have the chances against you
have the cheek
have the cold creeps
have the cold shivers
have the conn
have the creeps
have the deed for
have the drop on
have the ear of
have the facts
have the fidgets
have the flavor of
have the floor
have the force of
have the friendship of
have the function of
have the gall
have the game in your hands
have the game in your own hands
have the gift of gab
have the golden touch
have the goodness
have the goods on
have the grace to
have the guts
have the hang of it
have the idea
have the impression
have the inside track
have the jitters
have the job of
have the jump on
have the knack
have the last laugh on
have the last word
have the latchstring out
have the law of
have the law on
have the look of
have the makings of
have the mastery of
have the mission of
have the nerve
have the odds against one
have the odds against you
have the opinion
have the power
have the prerequisites
have the qualifications
have the right
have the role of
have the run of
have the say
have the say-so
have the sense of
have the shakes
have the start
have the sway
have the top place
have the top spot
have the touch
have the upper hand
have the use of
have the wherewithal
have the whip hand
have the wind of
have the world at your feet
have the worst of it
have thoughts about
have tied to your apron strings
have time
have time enough
have time to spare
have title to
have to
have to answer for
have to do with
have to fall back upon
have to hand it to
have to run for it
have to your name
have too many irons in the fire
have too much
have too much of a good thing
have trouble
have truck with
have two minds
have two strings to your bow
have under control
have undertaken
have up
have up your sleeve
have way upon
have weight
have well in hand
have what it takes
have what you say go
have words
have words with
have you on the ropes
have young
have your back to the wall
have your blood on your head
have your blood up
have your cake and eat it too
have your credit good for
have your doubts
have your ear
have your eye on
have your fill
have your fling
have your hand in the till
have your hands full
have your hands in
have your hands tied
have your head screwed on right
have your heart bleed for
have your heart in your mouth
have your heart set against
have your heart set on
have your innings
have your measure
have your moments
have your monkey up
have your name in lights
have your nerve
have your nose out of joint
have your number
have your options eliminated
have your options reduced
have your own way
have your period
have your place in the sun
have your revenge
have your say
have your time
have your way
have your will
have your wits about you
have-been
have-not
have-nots
have-nots, the
haven cap
haver-corn
haves, the
havey-cavey
havildar major
having a baby
having a block for a head
having a part
having a share
having a voice
having and holding
having cotton between the ears
having life
having title to
haw tree
haw-haw
hawaii time
hawaiian guitar
hawe-bake
hawk bell
hawk call
hawk cuckoo
hawk eagle
hawk fly
hawk moth
hawk nose
hawk owl
hawk parrot
hawk swallow
hawk's nest model
hawk's-beard
hawk's-bell
hawk's-bill
hawk's-eye
hawk-beaked
hawk-billed
hawk-eyed
hawk-faced
hawk-headed
hawk-moth
hawk-nose
hawk-nosed
hawk-owl
hawk-tailed
hawking voice
hawksbill turtle
hawse bag
hawse bolster
hawse hook
hawse timber
hawse-fallen
hawse-full
hawser bend
hawser clamp
hawser fastening
hawser-laid
hawsing iron
hawthorn china
hawthorn pattern
hawthorn tingis
hawthorn wine
hay asthma
hay bacillus
hay baler
hay barrack
hay binder
hay conditioner
hay cutter
hay fern
hay fever
hay hook
hay jack
hay knife
hay loader
hay plant
hay press
hay rig
hay road
hay saffron
hay sweep
hay tedder
hay tit
hay wagon
hay worm
hay-asthma
hay-bird
hay-bote
hay-cock
hay-color
hay-colored
hay-de-guy
hay-fed
hay-fever
hay-field
hay-fork
hay-mow
hay-rack
hay-rake
hay-rick
hay-scented
hay-seed
hay-tallat
haystack thorn
hazard a conjecture
hazard of the die
hazard side
hazard warning device
hazel alder
hazel brown
hazel crottles
hazel grouse
hazel hen
hazel mouse
hazel oil
hazel pine
hazel tree
hazel worm
hazel-eyed
hazel-gray
hazel-grouse
hazel-hen
hazel-hooped
hazel-leaved
hazel-nut
hazel-wood
hazelnut oil
hazy idea
hazy recollection
he-all
he-balsam
he-broom
he-cabbage-tree
he-goat
he-he!
he-heather
he-holly
he-huckleberries
he-huckleberry
he-man
he-mannish
he-men
he-oak
head and front of your offending
head and head
head and shoulders
head arrangement
head away from
head betony
head blight
head block
head butt
head cold
head collar
head count
head covering
head deformation
head earing
head fast
head flume
head fold
head for
head for blue water
head for the bottom
head form
head gate
head harness
head house
head index
head into
head joint
head kidney
head knee
head lamp
head lettuce
head log
head louse
head maggot
head matter
head metal
head mistress
head mold
head molding
head money
head motion
head netting
head of hair
head of household
head of state
head of the river
head off
head office
head on
head over heels
head over heels in
head over heels in debt
head over heels in love
head pin
head register
head resistance
head sample
head scab
head sea
head shaping
head shrinker
head smut
head space
head spar
head spin
head start
head stool
head straight for
head strapper
head swell
head table
head tax
head the board
head the line
head the table
head to leeward
head to wind
head to windward
head tone
head toward
head tree
head up
head veil
head voice
head waiter
head water
head wind
head windward
head word
head yard
head-aching
head-and-tail light
head-and-tail-light fish
head-block
head-board
head-cloth
head-court
head-dress
head-flattening
head-foremost
head-gear
head-hanging
head-high
head-hunt
head-hunter
head-hunting
head-line
head-load
head-man
head-money
head-note
head-on
head-on attack
head-over-heels
head-pan
head-penny
head-piece
head-plate
head-race
head-rail
head-rope
head-sail
head-shaking
head-splitting
head-stall
head-tire
head-tossing
head-turned
head-voice
headache plant
headache powder
headache tree
headache wafer
headache weed
headed for
headed group
header bond
header tank
header-up
heading bond
heading course
heading joint
heading machine
heading stone
heading sword
heading tool
heading toward
heading-machine
headline attraction
headlong plunge
headlong rush
headmistress-ship
heads or tails
heads up
heads-up
headwater erosion
heal itself
heal over
heal the breach
heal-all
heal-bite
heal-dog
heald knitter
healing agent
healing art
healing arts
healing blade
healing by first intention
healing by second intention
healing herb
healing leaf
healing ointment
healing quality
healing virtue
health centre
health examination
health food
health food store
health foods
health hazard
health insurance
health officer
health physicist
health physics
health resort
health salts
health spa
health visitor
health-enhancing
health-preserving
healthy body
healthy constitution
healthy economy
healthy glow
healthy hue
healthy meal
healthy mind
healthy-minded
healthy-mindedly
healthy-mindedness
heap coals of fire on your head
heap dirt upon
heap leaching
heap roasting
heap up
heap upon
heaped-up
heaps of gold
hear a different drummer
hear confession
hear it for
hear nothing
hear of
hear out
hear say
hear shots fired in anger
hear tell of
hear to
hear ye
hearing aid
hearing impairment
hearing loss
hearing-aid battery
hearken to
hearsay evidence
hearsay rule
heart action
heart amulet
heart and soul
heart attack
heart back
heart block
heart bond
heart cam
heart cherry
heart clam
heart clot
heart clover
heart cockle
heart complaint
heart condition
heart cup
heart disease
heart failure
heart flower
heart line
heart liver
heart liverleaf
heart medic
heart murmur
heart of gold
heart of grace
heart of hearts
heart of oak
heart of stone
heart out
heart pine
heart point
heart rot
heart sac
heart shell
heart shock
heart snakeroot
heart starter
heart stimulant
heart strain
heart surgery
heart tamponade
heart transplant
heart trefoil
heart trouble
heart urchin
heart wall
heart yarn
heart's blood
heart's core
heart's desire
heart's-ease
heart-ache
heart-affecting
heart-angry
heart-back
heart-blood
heart-bond
heart-bound
heart-break
heart-bred
heart-broken
heart-burdened
heart-burning
heart-cheering
heart-chilled
heart-chilling
heart-corroding
heart-deadened
heart-dulling
heart-eating
heart-expanding
card-fallen
heart-fashionable
heart-felt
heart-flowered
heart-flowered orchid
heart-free
heart-freezing
heart-fretting
heart-gnawing
heart-gripping
heart-happy
heart-hardened
heart-hardening
heart-heaviness
heart-heavy
heart-hungry
heart-ill
heart-leaved
heart-leaved aster
heart-leaved willow
heart-lung machine
heart-melting
heart-moving
heart-piercing
heart-purifying
heart-quake
heart-ravishing
heart-rending
heart-rendingly
heart-robbing
heart-searching
heart-shaking
heart-shaped
heart-shed
heart-sick
heart-sore
heart-sorrowing
heart-spoon
heart-stirring
heart-stricken
heart-strickenly
heart-strike
heart-strings
heart-struck
heart-swelling
heart-swollen
heart-tearing
heart-thrilling
heart-throb
heart-throbbing
heart-tickling
heart-to-heart
heart-to-heart talk
heart-warm
heart-warming
heart-weariness
heart-weary
heart-whole
heart-wholeness
heart-wise
heart-wood
heart-wounded
heart-wounding
heart-wringing
heart-wrung
heartfelt apology
heartfelt grief
hearth and home
hearth cricket
hearth money
hearth tax
hearth-money
hearth-penny
hearth-rug
hearth-stead
hearth-tax
hearts and flowers
hearts-and-flowers
hearty assent
hearty enjoyment
hearty laugh
hearty meal
hearty welcome
heat absorber
heat apoplexy
heat asphyxia
heat balance
heat barrier
heat canker
heat capacity
heat center
heat conduction
heat conductivity
heat content
heat death
heat detector
heat devil
heat energy
heat engine
heat engineer
heat engineering
heat equation
heat equator
heat equivalent
heat exchange
heat exchanger
heat exhaustion
heat factor
heat fever
heat lamp
heat lightning
heat nodules
heat of condensation
heat of fusion
heat of solidification
heat of sublimation
heat of vaporization
heat potential
heat prostration
heat pump
heat rash
heat ray
heat regulator
heat reservoir
heat rigor
heat science
heat seeker
heat shield
heat sink
heat spectrum
heat spot
heat sum
heat the economy
heat therapy
heat treating
heat treatment
heat unit
heat up
heat up the economy
heat wave
heat weight
heat-absorbing
heat-conducting
heat-cracked
heat-drop
heat-engine cycle
heat-forming
heat-full fire
heat-giving
heat-island
heat-killed
heat-laden
heat-loving
heat-oppressed
heat-power engineer
heat-power engineering
heat-producing
heat-radiating
heat-reducing
heat-regulating
heat-resistant
heat-resisting
heat-softened
heat-spot
heat-tempering
heat-treat
heat-treated
heat-treating
heat-treatment
heat-wave
heated imagination
heated up
heater cord
heater piece
heater-shaped
heath aster
heath bell
heath box
heath bramble
heath cock
heath cypress
heath family
heath fern
heath grass
heath grouse
heath hen
heath honeysuckle
heath moss
heath mulberry
heath pea
heath peat
heath poult
heath rush
heath scrub
heath wren
heath-bell
heath-berry
heath-bird
heath-clad
heath-cock
heath-hen
heath-pea
heathen god
heather bell
heather cat
heather grass
heather purple
heather whin
heather wool
heather-bell
heather-bleat
heather-blutter
heating coil
heating degree-day
heating duct
heating element
heating furnace
heating pad
heating pipe
heating plant
heating-up
heauto-
heave a sigh of relief
heave aloft
heave alongside
heave and awash
heave apeak
heave at
heave down
heave ho
heave in sight
heave in together
heave offering
heave out
heave out a sail
heave overboard
heave round
heave short
heave shoulder
heave the gorge
heave the lead
heave the log
heave to
heave-ho
heave-off hinge
heave-offering
heave-shouldered
heaven above
heaven disturber
heaven of heavens
heaven on earth
heaven tree
heaven worshiper
heaven's artillery
heaven's ebon vault
heaven's high city
heaven-accepted
heaven-aspiring
heaven-assailing
heaven-begot
heaven-bent
heaven-born
heaven-bred
heaven-built
heaven-clear
heaven-controlled
heaven-daring
heaven-dear
heaven-defying
heaven-descended
heaven-devoted
heaven-directed
heaven-erected
heaven-fallen
heaven-forsaken
heaven-gate
heaven-gifted
heaven-given
heaven-guided
heaven-high
heaven-inspired
heaven-instructed
heaven-kissing
heaven-lighted
heaven-lit
heaven-made
heaven-prompted
heavy-drinking
heavy-duty
heavy-eared
heavy-eyed
heavy-faced
heavy-featured
heavy-fisted
heavy-fleeced
heavy-footed
heavy-footedness
heavy-fruitied
heavy-gaited
heavy-handed
heavy-handedly
heavy-handedness
heavy-head
heavy-headed
heavy-hearted
heavy-heartedly
heavy-heartedness
heavy-heeled
heavy-jawed
heavy-laden
heavy-leaved
heavy-lidded
heavy-limbed
heavy-lipped
heavy-looking
heavy-mettled
heavy-mouthed
heavy-paced
heavy-scented
heavy-seeming
heavy-set
heavy-shotted
heavy-shouldered
heavy-shuttered
heavy-smelling
heavy-soled
heavy-tailed
heavy-timbered
heavy-weight
heavy-winged
heavy-witted
heavy-wooded
heb-sed
hebe-
hebephrenic schizophrenia
heck-how
hect-
hectic fever
hectic flush
hecto-
hecto-ampere
hectograph copy
heddle brusher
heddle knitter
hedge about
hedge accentor
hedge apple
hedge bedstraw
hedge bells
hedge bird
hedge cactus
hedge carpenter
hedge chanter
hedge crocus
hedge fumitory
hedge garlic
hedge grape
hedge hyssop
hedge in
hedge laurel
hedge layer
hedge marriage
hedge priest
hedge rose
hedge sparrow
hedge stake
hedge trimmer
hedge your bets
hedge-bird
hedge-bound
hedge-creeper
hedge-hyssop
hedge-pig
hedge-priest
hedge-school
hedge-sparrow
heded about
heded about by
heded by
heded in
heded-in
hedgehog aloe
hedgehog cactus
hedgehog caterpillar
hedgehog coneflower
hedgehog gourd
hedgehog grass
hedgehog transformer
hedging your bets
hedging-in
hedonic calculus
hedonistic calculus
hee-haw
hee-hee
hee-hee!
heebie jeebies
heebie-jeebies
heedless hap
heel bar
heel block
heel blocker
heel bone
heel breast
heel builder
heel chain
heel clamp
heel cutter
heel fly
heel in
heel jigger
heel nailer
heel of Achilles
heel pad
heel padder
heel ring
heel rope
heel seat
heel seater
heel splitter
heel spur
heel stay
heel tapper
heel tool
heel trimmer
heel wedge
heel-and-toe
heel-and-toe dancer
heel-attaching
heel-ball
heel-bone
heel-breast
heel-breaster
heel-fast
heel-piece
heel-plate
heel-post
heel-rope
heel-tap
heel-way
heeling tank
heels over head
hefty eater
heh deity
heidelberg man
heigh ho
heigh-ho
height block
height board
height district
height finder
height gauge
height measure
height measurement
height of fashion
height of land
height pressure
height to paper
height to surface
height-to-paper
heir apparency
heir apparent
heir at law
heir by destination
heir expectant
heir general
heir in tail
heir of entail
heir of inventory
heir of line
heir of provision
heir of the body
heir portioner
heir presumptive
heir whatsoever
heir-at-law
heiress-ship
heirs apparent
heirs at law
heirs presumptive
held back
held dear
held in awe
held in consideration
held in esteem
held in favor
held in pledge
held in regard
held in reserve
held in respect
held in trust
held out
held up
helen of troy
heli-
heliacal rising
helianthine B
helic-
helical gear
helical rack
helico-
helicoidal saw
helicopter gun ship
helicopter gunship
helio-
heliocentric longitude
heliocentric parallax
heliographic chart
heliotrope gray
helium group
helix angle
hell around
hell bomb
hell broke loose
hell for leather
hell gate
hell hole
hell let loose
hell mouth
hell of a
hell to pay
hell upon earth
hell week
hell's bells
hell's half-acre
hell's kitchen
hell-begotten
hell-bent
hell-bent for election
hell-bent on
hell-bind
hell-black
hell-born
hell-bound
hell-bred
hell-brewed
hell-cat
hell-dark
hell-deep
hell-devil
hell-diver
hell-doomed
hell-driver
hell-engendered
hell-fire
hell-fired
hell-for-leather
hell-gate
hell-hard
hell-hatched
hell-haunted
hell-hound
hell-like
hell-raiser
hell-raker
hell-red
hell-vine
hellebore green
hellebore red
hellish host
hello girl
hello there
helm alee
helm aport
helm astrashore
helm aweather
helm port
helm wind
helm-wind
helmet liner
helmet of hair
helmet quail
helmet shell
helmet-crest
helmet-shaped
helmet-wearing
helmed guinea fowl
helminth-
help a lame dog over a stile
help along
help bear your grief
help decide
help in time of need
help on its way
help out
help to
help up
help yourself to
helped by
helping along
helping hand
helter-skelter
helter-skelteriness
helve hammer
hem and haw
hem in
hem-
hem-stitch
hema-
hemat-
hematin crystals
hematin paste
hematite red
hemato-
hematocrit value
hematogenic shock
hemi-
hemi-elytrum
hemi-type
hemispherico-conical
hemispherico-conoid
hemlock fir
hemlock pitch
hemlock parsley
hemlock spruce
hemlock-leaved
hemmed in
hemmed-in
hemming-in
hemo-
hemolymph gland
hemolytic anemia
hemophilia A
hemophilia B
hemophilia C
hemophilic arthritis
hemorrhagic measles
hemorrhagic plague
hemorrhagic septicemia
hemp agrimony
hemp nettle
hemp oil
hemp palm
hemp tree
hemp-agrimony
hemp-nettle
hempen bridle
hempen collar
hempen necktie
hempen tippet
hempseed oil
hen and chickens
hen clam
hen coop
hen curlew
hen flea
hen frigate
hen gorse
hen harrier
hen hawk
hen louse
hen mold
hen party
hen pepper
hen plant
hen run
hen scratches
hen track
hen tracks
hen turkey
hen's-foot
hen-and-chickens
hen-coop
hen-driver
hen-egg
hen-fat
hen-feathered
hen-feathering
hen-harrier
hen-hawk
hen-hearted
hen-house
hen-peck
hen-pecked
hen-roost
hen-tailed
hench-boy
hendea-
hens-and-chickens
hep to
hepar calcis
hepat-
hepato-
hepato-pancreas
hepped up
hepped up over
hepta-
heptadecanoic acid
her infinite variety
her native ornament of hair
herabol myrrh
herald abroad
herald angel
herald's college
herald's trick
herald's trumpet
heraldic device
heraldic heiress
heraldic insignia
heraldic knot
heraldic official
heraldic officials
heralds' college
herb Christopher
herb Gerard
herb Paris
herb Robert
herb bennet
herb doctor
herb john
herb of grace
herb paris
herb patience
herb robert
herb-grace
herb-woman
herbaceous border
herbs Paris
herbs Robert
herbs patience
hercules beetle
hercules' club
hercules'-club
herd instinct
herd together
herd's grass
herd's-grass
herd-book
herd-boy
herd-grass
herd-groom
here and now
here and there
here and there in
here and there on
here below
here lies
here today and gone tomorrow
here's good luck
here's how
here's looking at you
here's mud in your eye
here's to absent friends
here's to you
here-hence
hereafter, the
hereditary character
hereditary disease
heriot service
herky-jerky
hermaphrodite brig
hermaphrodite caliper
hermaphrodite duct
hermaphrodite schooner
hermes trismegistus
hermetically sealed
hermit crab
hermit crow
hermit order
hermit thrush
hermit warbler
hermo-
hermosa pink
hernio-
hero sandwich
hero worship
hero-shiped
hero-shiping
hero-shipped
hero-shipping
hero-worship
hero-worshiper
hero-worshiping
heroi-comic
heroic act
heroic age
heroic couplet
heroic deed
heroic legend
heroic myth
heroic poetry
heroic stanza
heroic tenor
heroic verse
heron's-bill
herpes facialis
herpes labialis
herpes simplex
herpes zoster
herpet-
herr-ban
herring buss
herring gull
herring hog
herring king
herring oil
herring pond
herring salad
herring work
herring-bone
herring-kale
herring-pond
herring-shaped
herringbone bond
herringbone bridging
herringbone gear
herringbone stitch
herringbone strutting
hertzian wave
hesitant approach
hesitate over
hesitation waltz
hesper-
hesperid-
hessian boot
hessian fly
het up
heter-
hetero-
heterogeneous reactor
heterogeneous system
heterogenous vaccine
heterolytic fission
heterotrophic organism
hew down
hew-hole
hex doctor
hex mark
hex sign
hex-
hexa-
hexacosanoic acid
hexadecanoic acid
hexadecimal notation
hexadecimal system
hexaethyl tetraphosphate
hexagon-drill
hexakis-
hexanedioic acid
hexanoic acid
hexoic acid
hexose sugar
hexyl group
hexyl radical
hey rube
hey-day
hey-day guise
hey-ho
heyday of the blood
heyday of youth
hi ya
hi-fi
hi-fi fan
hiatal hernia
hiatus hernia
hiatus of learning
hiberno-
hic et nunc
hic et ubique
hic j acet
hic-cough
hiccuss doccius
hicc up-nut
hick joint
hick town
hick-joint pointing
hickory acacia
hickory aphid
hickory borer
hickory cloth
hickory elm
hickory girdler
hickory moth
hickory nut
hickory oak
hickory oil
hickory phylloxera
hickory pine
hickory poplar
hickory shad
hickory shirt
hickory stripe
hickory twig girdler
hickory wattle
hidden danger
hidden hand
hidden meaning
hidden out
hidden-fruited
hidden-veined
hide away
hide beetle
hide nor hair
hide or hair
hide out
hide rope
hide splitter
hide under
hide your face
hide your hand
hide your head
hide your head in the sand
hide your light under a bushel
hide your trail
hide yourself
hide-and-go-seek
hide-and-seek
hide-out
hidebound disease
hidey hole
hidey-hole
hiding place
hiding power
hidro-
hidy-hole
hie on
hie to
hie yourself to
hielaman tree
hier-
hiera picra
hieratic symbol
hiero-
hig taper
higgledy-piggledy
high aim
high altar
high analysis
high and dry
high and low
high and mighty
high as a kite
high as a steeple
high bar
high beam
high birth
high blood pressure
high blower
high brass
high bunt
high by-pass ratio engine
high camp
high celebration
high chair
high chief
high church
high collar
high color
high comedy
high command
high commissioner
high cost
high court
high cranberry
high day
high descent
high diver
high diving
high dudgeon
high energy physics
high explosive
high fashion
high feather
high fidelity
high finance
high flavor
high fog
high frequency
high fulham
high german
high glee
high goal
high grade
high growth rate
high hand
high hat
high heaven
high holiday
high hopes
high horse
high hurdles
high ideals
high income
high iron
high jinks
high jump
high jumper
high king
high life
high light
high liver
high living
high lobe
high mass
high mightiness
high milling
high muck-a-muck
high noon
high old time
high on the hog
high order
high pitch
high place
high places
high point
high polymer
high pressure
high price
high yellow
high-aimed
high-aiming
high-altitude bombing
high-altitude flying
high-altitude research aircraft
high-altitude research rocket
high-altitude rocket
high-and-mightiness
high-and-mighty
high-angle fire
high-angle gun
high-angled
high-arched
high-aspiring
high-backed
high-binder
high-blazing
high-blessed
high-blooded
high-blower
high-blown
high-bodiced
high-boiling
high-boned
high-born
high-breasted
high-bred
high-brow
high-browed
high-browish
high-browishly
high-browism
high-built
high-button shoes
high-caliber
high-calorie diet
high-camp
high-case
high-caste
high-ceiled
high-ceilinged
high-churchman
high-class
high-climber
high-climbing
high-collared
high-colored
high-coloured
high-complexioned
high-compression
high-count
high-crested
high-crowned
high-cut
high-density
high-duty
high-elbowed
high-embowed
high-energy particle
high-explosive
high-explosive charge
high-explosive shell
high-falutin
high-faluting
high-fated
high-feathered
high-fed
high-fidelity
high-fidelity speaker
high-fidelity system
high-flavored
high-flier
high-flowing
high-flown
high-flown diction
high-flushed
high-flyer
high-flying
high-flying tippler
high-foreheaded
high-frequency
high-frequency amplification
high-frequency cable
high-frequency current
high-frequency direction finder
high-frequency heater
high-frequency pulse
high-frequency speaker
high-frequency telephony
high-frequency treatment
high-frequency wave
high-gazing
high-geared
high-grade
high-grade bond
high-muck-a-muck
high-muckety-muck
high-necked
high-nosed
high-notioned
high-octane
high-octane gas
high-pass
high-pass filter
high-peaked
high-pitch
high-pitched
high-placed
high-pointing
high-pooped
high-potency
high-potential
high-power
high-powered
high-pressure
high-pressure area
high-pressure cylinder
high-pressure methods
high-pressure salesmanship
high-pressured
high-pressuring
high-priced
high-principled
high-priority
high-prized
high-proof
high-protein diet
high-quality
high-raised
high-ranking
high-reaching
high-reared
high-resolved
high-rigger
high-rise
high-rise apartment building
high-riser
high-roofed
high-runner
high-school
high-sea
high-seasoned
high-seated
high-set
high-shoe
high-shouldered
high-sided
high-sighted
high-soaring
high-society
high-soled
high-souled
high-sounding
high-sounding words
high-speed
high-speed data handling
high-speed digit computer
high-speed embosser
high-speed memory
high-speed steel
high-speed turn
high-spirited
high-spiritedly
high-spiritedness
high-stepper
high-stepping
high-stomached
high-strung
high-sulphur
high-swelling
high-swollen
high-swung
high-tail
high-tasted
high-temperature cement
high-tempered
high-tension
high-test
high-thoughted
high-throned
high-thundering
high-tide
high-tone
high-toned
high-topped
high-topped shoes
high-tory
high-towered
high-tuned
high-up
high-ups
high-vacuum phototube
high-vaulted
high-velocity
high-vitamin diet
high-voltage
high-voltage probe
high-waisted
high-walled
high-warp
high-water
high-water mark
high-water pants
high-water shrub
high-wing monoplane
high-wire artist
high-wrought
highball glass
highbush blueberry
highbush huckleberry
higher algebra
higher apsis
higher arithmetic
higher criticism
higher echelons
higher education
higher fungus
higher mathematics
higher-up
higher-ups
highest category
highest common factor
highest degree
highest pitch
highest point
highest type
highest-ranking
highfalutin ways
highfaluting ways
highland cranberry
highland cudweed
highland fling
highlight halftone
highly colored imagination
highly considered
highly emotional
highly esteemed
highly regarded
highly reputed
highly respectable
highly satisfied
highly strung
highly touted
highly-wrought
highs sounding
hightail it
highly-tighty
highwall tent
highway engineer
highway engineering
highway marker
highway patrol
highway robber
highway robbery
highway trailer
highways and byways
hike out
hike up
hiking trail
hilaro-tragedy
hill clematis
hill climb
hill climber
hill country
hill folk
hill fox
hill grub
hill heaped upon hill
hill myna
hill oat
hill of beans
hill palm
hill partridge
hill planter
hill station
hill tit
hill-altar
hill-dwelling
hill-fort
hill-girdled
hill-girt
hill-man
hill-side
hill-surrounded
hill-top
hillbilly music
hillock tree
hillside plow
hilly-billy
hinc illae lacrimae
hind end
hind kidney
hind leg
hind legs
hind part
hind shank
hind wing
hind-calf
hind-foremost
hind-gut
hind-head
hind-sight
hinder part
hinge fault
hinge joint
hinge line
hinge on
hinge plate
hinge strap
hinge tooth
hinge upon
hinge-pole
hinged joint
hinging on
hinging post
hinoki cypress
hint at
hip and thigh
hip bath
hip boot
hip boots
hip brier
hip disease
hip flask
hip girdle
hip joint
hip knob
hip lock
hip molding
hip pocket
hip rafter
hip roll
hip roof
hip rose
hip straps
hip tile
hip vertical
hip-and-valley roof
hip-bone
hip-girdle
hip-gout
hip-huggers
hip-joint
hip-roof
hip-roofed
hip-shot
hipo-
hipp-
hipped on
hipped roof
hippety-hop
hippety-hoppety
hippo-
hippocampal convolution
hippocampal gyrus
hippocras bag
hippocratic oath
hirdie-girdie
hirdum-dirdum
hire on
hire out
hire purchase
hire purchase plan
hire-purchase
hire-purchase system
hired applauder
hired car
hired girl
hired gun
hired hand
hired help
hired killer
hired limousine
hired man
hiri Motu
hiring hall
hirse grass
hirsuto-rufous
his heels
his honor
his lordship
his nibs
his phoenix down
his self
his worship
hispano-
hissing sounds
hist-
histamine shock
histo-
historic episcopate
historical documents
historical error
historical geology
historical linguistics
historical materialism
historical materialist
historical method
historical novel
historical painter
historical painting
historical present
historical present tense
historical records
historical school
historical truth
historico-
historico-ethical
history is bunk
history is merely gossip
history of ideas
history of printing
histrionic art
hit a clinker
hit a clip
hit a nerve
hit a slump
hit a sour note
hit a streak of luck
hit against
hit and miss
hit and run
hit at
hit back at
hit batsman
hit below the belt
hit bottom
hit for
hit home
hit it
hit it big
hit it off
hit it off with
hit it on the nose
hit like lightning
hit man
hit off
hit off on
hit on
hit one for
hit or miss
hit out
hit pay dirt
hit rock bottom
hit show
hit the ball
hit the booze
hit the bottle
hit the brake pedal
hit the campaign trail
hit the ceiling
hit the deck
hit the eye
hit the hay
hit the high spots
hit the jackpot
hit the mark
hit the nail on the head
hit the road
hit the sack
hit the sauce
hit the silk
hit the skids
hit the spot
hit the trail
hit town
hit tune
hit up
hit upon
hit upon a solution
hit you in the eye
hit you where you live
hit-and-miss
hit-and-miss window
hit-and-run
hit-and-run attack
hit-and-run driver
hit-in
hit-off
hit-or-miss
hit-or-missness
hit-run
hit-skip
hitch a ride
hitch and hike
hitch angle
hitch kick
hitch on
hitch pin
hitch rides
hitch up
hitch your wagon to a star
hitch-hiker
hitching post
hitching your wagon to a star
hither and thither
hither and yon
hitting the booze
hitting the bottle
hitting the sauce
hitting-up
hitty-missy
hive bee
hive body
hive dross
hive of industry
hive off
hive sirup
hive vine
ho, hum
ho-bird
ho-ho
ho-hum
hoar-frost
hoar-frosted
hoar-stone
hoard up
hoary age
hoary cress
hoary eld
hoary hair
hoary-eyed
hoary-feathered
hoary-haired
hoary-headed
hoary-headed joke
hoary-leaved
hog ape
hog apple
hog badger
hog brake
hog call
hog caterpillar
hog chain
hog cholera
hog deer
hog flu
hog for, a
hog frame
hog gum
hog hair
hog hook
hog in armour
hog jowl
hog lard
hog louse
hog mane
hog millet
hog money
hog peanut
hog piece
hog plum
hog pox
hog score
hog sheer
hog stave
hog sucker
hog truss
hog turn
hog wallow
hog wire
hog's back
hog's bean
hog's fennel
hog's pudding
hog's-back
hog- wash
hog-backed
hog-brace
hog-cote
hog-deer
hog-faced
hog-fat
hog-fish
hog-frame
hog-louse
hog-maned
hog-mouthed
hog-necked
hog-nose
hog-nose snake
hog-nosed
hog-nut
hog-plum
hog-raising
hog-reeve
hog-score
hog-skin
hog-tie
hog-tied
hog-tight
hog-trough
hog-wash
hog-wild
hogen mogen
hogger pump
hoggine-frame
hognose snake
hognosed skunk
hohl-flute
hoi polloi
hoisin sauce
hoist a banner
hoist by
hoist by your own petard
hoist loader
hoist sail
hoist the blue Peter
hoist the white flag
hoist with
hoist-
hoisting gaff
hoisting machine
hoisting yard
hoity-toitiness
hoity-toity
hoity-toityism
hoity-toityness
hoke act
hoke comic
hoke up
hoker moker
hokey cokey
hokey-pokey
hokum act
hokum comic
hol-
hold a brief for
hold a candle to
hold a card
hold a close wind
hold a conversation
hold a course
hold a funeral
hold a heading
hold a high opinion of
hold a loose rein
hold a low opinion of
hold a meeting
hold a middle course
hold a post
hold a press conference
hold a seance
hold a session
hold a sitting
hold a tight hand upon
hold aces
hold against
hold aloof
hold aloof from
hold an idea
hold as
hold at bay
hold at your beck and call
hold away from
hold back
hold beam
hold beneath contempt
hold beneath one
hold by
hold captive
hold cheap
hold communication
hold conference
hold control
hold court
hold dear
hold down
hold down a job
hold everything
hold fast
hold for
hold for ransom
hold forth
hold forth without interruption
hold good
hold hands
hold in
hold in abomination
hold in bondage
hold in captivity
hold in check
hold in consideration
hold in contempt
hold in custody
hold in derision
hold in esteem
hold in fee simple
hold in hand
hold in leading strings
hold in leash
hold in low esteem
hold in mind
hold in restraint
hold in reverence
hold in solution
hold in subjection
hold in swaddling clothes
hold in the thoughts
hold in thrall
hold in view
hold it
hold it against
hold jubilee
hold membership
hold no brief for
hold off
hold office
hold on
hold on a course
hold on like a bulldog
hold on the course
hold on to
hold opposite views
hold out
hold out a helping hand
hold out against
hold out an expectation
hold out hope
hold out on
hold out promise
hold out the hand
hold out the olive branch
hold out the right of fellowship
hold out the right of friendship
hold over
hold over your head
hold prisoner
hold spellbound
hold steady
hold steady for
hold the attention
hold the bag
hold the belief
hold the course
hold the field
hold the fort
hold the helm
hold the interest
hold the line
hold the market
hold the memory of
hold the mirror up to nature
hold the phone
hold the prerogative
hold the promptbook
hold the proxy of
hold the purse strings
hold the reins
hold the ring of truth
hold the sack
hold the scales
hold the stage
hold the thought
hold the wire
hold tight
hold to
hold together
hold true
hold under close arrest
hold under house arrest
hold up
hold up in the wash
hold up the hand
hold up the mirror to
hold up to public ridicule
hold up to public scorn
hold up to public shame
hold up to reprobation
hold up to shame
hold up to view
hold up your hand
hold up your head
hold water
hold with
hold yard
hold your breath
hold your course
hold your end up
hold your eye
hold your gaze
hold your ground
hold your hand
hold your head above water
hold your head high
hold your horses
hold your jaw
hold your lip
hold your nose in the air
hold your own
hold your path
hold your peace
hold your sides
hold your tongue
hold your way
hold yourself aloof
hold yourself apart
hold yourself erect
hold yourself in readiness
hold yourself stiff
hold yourself straight
hold-all
hold-back
hold-clear
hold-down
hold-off
hold-up
hold-up bill
holder of the legal estate
holder-forth
holder-on
holder-up
holding back
holding company
holding furnace
holding ground
holding in
holding in remembrance
holding paddock
holding pattern
holding together
holding-out partner
holdup job
holdup man
hole card
hole in one
hole in the heart
hole in the wall
hole out
hole to creep out of
hole up
hole-and-comer
hole-and-corner
hole-high
hole-in-corner
holes in
holey dollar
holiday camp
holiday-maker
holiday-making
holier than the Pope
holier-than-thou
holistic approach
holistic medicine
hollandaise sauce
holler out
hollo after
hollow back
hollow heart
hollow horn
hollow hunger
hollow man
hollow mockery
hollow newel
hollow organ
hollow out
hollow pretense
hollow sea
hollow shell
hollow threat
hollow truce
hollow ware
hollow-back
holy clover
holy communion
holy cow
holy cross
holy day
holy day of obligation
holy days
holy dollar
holy father
holy fire
holy ghost
holy grail
holy grass
holy hour
holy innocents' day
holy joe
holy land
holy mackerel
holy man
holy matrimony
holy mess
holy of holies
holy office
holy oil
holy order
holy orders
holy place
holy rite
holy roller
holy roman empire
holy rood
holy saturday
holy see
holy shit
holy smoke
holy spirit
holy stone
holy synod
holy table
holy terror
holy thistle
holy thursday
holy tide
holy war
holy water
holy water sprinkle
holy water sprinkler
holy wedlock
holy week
holy well
holy writ
holy year
holy-day
holy-minded
holy-mindedness
holy-water basin
holy-water font
holy-water sprinkler
holy-water stoup
hom-
home address
home appliance
home base
home brew
home builder
home circle
home defense army
home dweller
home economics
home economist
home free
home fried potatoes
home fries
home front
home furnishings
home guard
home in on
home is where you start
home life
home mission
home missionary
home office
home on
home permanent
home place
home plate
home range
home reserve
home reserves
home roof
home room
home rule
home ruler
home run
home sheltered
home signal
home station
home stretch
home study
home sweet home
home teacher
home thrust
home tie
home town
home towner
home truth
home-
home-abiding
home-along
home-baked
home-born
home-bred
home-brew
home-brewed
home-bringing
home-building
home-built
home-come
home-coming
home-driven
home-dwelling
home-faring
home-fed
home-felt
home-going
home-growing
home-grown
home-keeping
home-killed
home-loving
home-made
home-owning
home-raised
home-reared
home-sailing
home-sent
home-sick
home-sickness
home-staying
home-thrust
home-woven
homeless waif
homely as a mud fence
homely enough to sour milk
homely enough to stop a clock
homeo-
homeopathic dose
homeopathic magic
homestead law
homeward bound
homeward-bound
homeward-bounder
homicidal maniac
homing device
homing guidance
homing pigeon
homing rocket
homing torpedo
hominy grits
homme de cour
homme moyen sensuel
homo faber
homo sapiens
homo signorum
homo-
homo-hetero-analysis
homo-organ
homoeo-
homogeneous coordinates
homogeneous reactor
homogenized milk
homogentisic acid
homoi-
homoi-
homologous chromosomes
homologous vaccine
homolographic projection
homolosine projection
homolytic fission
homonymous construction
homosexual marriage
homosexual neurosis
homothetic transformation
hone for
honest as the day is long
honest injun
honest man
honest person
honest sweat
honest woman
honest-to-God
honey ant

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honey whip
honey yellow
honey-bear
honey-bearing
honey-bee
honey-bird
honey-blond
honey-bloom
honey-buzzard
honey-color
honey-colored
honey-dew
honey-drop
honey-dropping
honey-eater
honey-eating
honey-flower
honey-flowing
honey-gathering
honey-guide
honey-heavy
honey-laden
honey-loaded
honey-month
honey-mouthed
honey-pot
honey-secreting
honey-stalks
honey-steeped
honey-stone
honey-stored
honey-storing
honey-sweet
honey-tasting
honey-tongued
honey-voiced
honey-yielding
honeycomb coral
honeycomb isinglass
honeycomb moth
honeycomb radiator
honeycomb ringworm
honeycomb sponge
honeycomb stitch
honeycomb stomach
honeycomb tripe
honeycomb work
honeydew melon
honeyed phrases
honeyed tongue
honeyed words
honeymoon bridge
honeysuckle apple
honeysuckle clover
honeysuckle family
honeysuckle grass
honeysuckle ornament
honeysuckle tree
honi soit qui mal y pense
honk the horn
honky-tonk
honor a bill
honor be to
honor before
honor bright
honor card
honor guard
honor man
honor medal
honor point
honor price
honor roll
honor society
honor system
honor trick
honor-bound
honor-fired
honor-giving
honor-owing
honor-thirsty
honorable descent
honorable discharge
honorable mention
honorable ordinary
honorary canon
honorary member
honoris causa
honors course
honors of war
honour school
honourable discharge
honours list
honours of war
hoo-ha
hooch hound
hood cap
hood clock
hood end
hood molding
hood mould
hood-crowned
hood-mould
hood-shaped
hooded barley
hooded crow
hooded grass
hooded matweed
hooded seal
hooded top
hooded warbler
hoodie crow
hoodman-blind
hoof foot
hoof it
hoof-and-mouth disease
hoof-bound
hoof-cast
hoof-cut
hoof-plowed
hoof-printed
hoof-shaped
hoofed animal
hook a ride
hook and butt
hook and eye
hook and ladder
hook bolt
hook check
hook climber
hook gauge
hook in
hook into
hook it
hook ladder
hook maker
hook money
hook pin
hook rug
hook scarf
hook screw
hook shot
hook slide
hook spanner
hook squid
hook up
hook up with
hook wrench
hook, line, and sinker
hook-and-ladder
hook-and-ladder company
hook-and-ladder truck
hook-armed
hook-backed
hook-beaked
hook-bill
hook-billed
hook-collector transistor
hook-handed
hook-headed
hook-nose
hook-nosed
hook-shaped
hook-shouldered
hook-snouted
hook-tipped
hook-up
hooked into
hooked on
hooked rug
hookem-snivey
hooker-off
hooker-on
hooker-out
hooker-over
hooker-up
hookup wire
hookworm disease
hooky-crookly
hoop ash
hoop back
hoop bundler
hoop iron
hoop petticoat
hoop pine
hoop shell
hoop skirt
hoop snake
hoop tension
hoop tree
hoop willow
hoop withe
hoop-back
hoop-coop plant
hoop-la
hoop-petticoat
hoop-petticoat narcissus
hoop-shaped
hoop-stick
hooping-cough
hoopla campaign
hoosier town
hoot owl
hoot toot
hootchie-kootchie
hootchy-kootch
hootchy-kootchies
hootchy-kootchy
hootchy-kootchy show
hoover apron
hop along
hop aphid
hop back
hop borer
hop clover
hop dog
hop flea beetle
hop flour
hop fly
hop froth fly
hop gland
hop grub
hop hornbeam
hop in
hop into
hop jack
hop kiln
hop looper
hop louse
hop meal
hop merchant
hop mildew
hop mold
hop moth
hop off
hop oil
hop plant
hop plant borer
hop sack
hop sacking
hop step and jump
hop to it
hop tree
hop trefoil
hop up
hop-about
hop-garden
hop-o'-my-thumb
hop-o-my-thumb
hop-picker
hop-sack
hop-sacking
hop-shaped
hop-yard
hope against hope
hope and pray
hope chest
hope deferred
hope for
hope for the best
hope in
hope to God
hope to die
hoped-for
hopeful prognosis
hopeless case
hoping against hope
hoplo-
hopped up
hopped-up
hopper barge
hopper car
hopper casement
hopper closet
hopper dredge
hopper frame
hopper light
hopper salt
hopper vent
hopper window
hopper-bottom car
hopper-shaped
hopping John
hopping mad
hopvine moth
hopvine thecla
horehound motherwort
horizon blue
horizon distance
horn-owl
horn-plate
horn-rimmed
horn-rimmed glasses
horn-rims
horn-shaped
horn-silver
horn-wood
hornbill cuckoo
hornblende schist
hornblende-gabbro
horned dinosaur
horned lark
horned lizard
horned owl
horned poppy
horned pout
horned rattlesnake
horned screamer
horned snake
horned toad
horned viper
horned whiff
hornet comb
hornet fly
hornet's nest
hornless cow
horns of a dilemma
horny coral
horny-fingered
horny-fisted
horny-hoofed
horny-knuckled
horny-nibbed
horny-toad
horror picture
horror vacui
horror-crowned
horror-fraught
horror-inspiring
horror-loving
horror-stricken
horror-stricken
hors concours
hors d'oeuvre
hors d'oeuvres
hors de combat
horse aloes
horse ant
horse around
horse artillery
horse bean
horse blanket
horse block
horse boat
horse boot
horse bot
horse bow
horse box
horse brass
horse brier
horse chanter
horse chestnut
horse clipper
horse conch
horse coper
horse courser
horse dam
horse dealer
horse devil
horse doctor
horse drench
horse driver
horse duck
horse elder
horse emmet
horse fiddle
horse fly
horse gentian
horse gentler
horse ginseng
horse godmother
horse gowan
horse guard
horse hoe
horse iron
horse latitudes
horse laugh
horse litter
horse louse
horse mackerel
horse marine
horse master
horse mint
horse mushroom
horse nettle
horse nop
horse of a different color
horse of another color
horse opera
horse parlor
horse pick
horse pistol
horse plum
horse post
horse race
horse racer
horse racing
horse railroad
horse railway
horse rake
horse rasp
horse rough
horse savin
horse scraper
horse sense
horse show
horse sickness
horse soldier
horse sugar
horse tail
horse thistle
horse tick
horse timber
horse towel
horse trade
horse trader
horse trading
horse wrangler
horse's ass
horse's neck
horse-and-buggy
horse-back
horse-bitten
horse-block
horse-boat
horse-box
horse-boy
horse-bread
horse-breaker
horse-car
horse-chestnut
horse-collar
horse-coper
horse-corser
horse-course
horse-dealing
horse-drawn
horse-eye
horse-faced
horse-fair
horse-fish
horse-flesh
horse-fly
horse-foot
horse-godmother
horse-guard
horse-head
horse-hoe
horse-hoof
horse-hour
horse-jockey
horse-laugh
horse-leech
horse-litter
horse-load
horse-loving
horse-mackerel
horse-marine
horse-master
horse-matcher
horse-mill
horse-mint
horse-nail
horse-owning
horse-play
horse-plum
horse-pond
horse-power
horse-pox
horse-race
horse-radish
horse-scorser
horse-sense
horse-tail
horse-taming
horse-trade
horse-traded
horse-trading
horseback rider
horseback riding
horseflesh ore
horsefoot snipe
horsehair worm
horseless carriage
horsepower-hour
horsepower-year
horseshoe arch
horseshoe back
horseshoe bat
horseshoe crab
horseshoe kidney
horseshoe magnet
horseshoe nail
horseshoe snake
horseshoe-shaped
horsetail agaric
horsetail mushroom
horsetail tree
horsing around
hortatory address
hortus clusus
hortus siccus
hose cart
hose cock
hose company
hose down
hose duck
hose grass
hose hook
hose jacket
hose reel
hose truck
hose-in-hose
hose-net
hosing down
hospital administrator
hospital bed
hospital cleanliness
hospital corner
hospital fever
hospital gangrene
hospital light
hospital lock
hospital room
hospital service contract
hospital ship
hospital staff
hospital station
hospital steward
hospital train
hospital window
hospitalization insurance
host of heaven
host of hell
host plant
hostages to fortune
hostel school
hostess gown
hostess house
hostess-ship
hostile criticism
hostile expedition
hostile personality
hostile reaction
hostile witness
hot about
hot air
hot as blazes
hot as fire
hot as hell
hot as pepper
hot as the hinges of hell
hot atom
hot bath
hot bed
hot blast
hot blood
hot box
hot buttered rum
hot cake
hot cereal
hot chisel
hot chocolate
hot circuit
hot cockles
hot cold-working
hot corner
hot cross bun
hot day
hot diggity
hot dog
hot economy
hot enough to roast an ox
hot flash
hot for
hot galvanizing
hot goods
hot head
hot iron
hot issue
hot items
hot jazz
hot lead
hot lick
hot light
hot line
hot luncheon
hot metal
hot money
hot number
hot off the fire
hot off the griddle
hot off the press
hot off the spit
hot on
hot pack
hot pack method
hot pants
hot pepper
hot place
hot plate
hot pot
hot potato
hot press
hot pursuit
hot roast beef sandwich
hot rod
hot rodder
hot sauces
hot seat
hot shot
hot shower
hot spot
hot spring
hot stuff
hot switch
hot tear
hot temper
hot tip
hot toddy
hot trimmer
hot type
hot under the collar
hot up
hot war
hot water
hot wave
hot weather
hot well
hot wind
hot ziggety
hot-air
hot-air artist
hot-air balloon
hot-air engine
hot-air heat
hot-air heating
hot-air treatment
hot-air-heat
hot-air-heated
hot-blast
hot-blast system
hot-blooded
hot-bloodedness
hot-brain
hot-breathed
hot-bright
hot-broached
hot-bulb engine
hot-cathode tube
hot-cold
hot-deck
hot-dip coating
hot-dipped
hot-dog
hot-dog stand
hot-draw
hot-drawing
hot-drawn
hot-drew
hot-dry
hot-eyed
hot-foot
hot-forged
hot-galvanize
hot-gospeller
hot-headed
hot-hoof
hot-house
hot-house plant
hot-humid
house crow
house curtain
house decorator
house detective
house dick
house divided against itself
house doctor
house dog
house dove
house drain
house dress
house duty
house factor
house farmer
house finch
house flag
house furnisher
house furnishing
house furnishings
house god
house guest
house holly fern
house in
house jobber
house knacker
house lights
house manager
house martin
house mosquito
house mouse
house mover
house moving
house of God
house of assembly
house of assignation
house of burgesses
house of cards
house of commons
house of correction
house of death
house of delegates
house of detention
house of ill fame
house of ill repute
house of joy
house of life
house of lords
house of prayer
house of prostitution
house of representatives
house of worship
house organ
house painter
house party
house physician
house place
house plan
house plant
house servant
house slipper
house snake
house sparrow
house staff
house steward
house surgeon
house tax
house track
house trailer
house trap
house trim
house wagon
house wrecker
house wren
house-boat
house-broken
house-builder
house-cap
house-craft
house-dog
house-dove
house-father
house-headship
house-mother
house-place
house-proud
house-raising
house-room
house-search
house-to-house
house-to-house combat
house-top
house-train
house-warming
housed string
household ammonia
household art
household cavalry
household effects
household franchise
household goddess
household gods
household goods
household name
household suffrage
household troop
household troops
household word
household words
household-stuff
housemaid's knee
housey-housey
housing bill
housing development
housing estate
housing problem
housing project
housing scheme
hove to
hover fly
hover hawk
hover over
hovering accent
hovering act
how about that
how are you
how come
how do
how do you do
how does she head
how far
how goes it
how is it that
how is your rudder
how it goes
how it is
how now
how should I know
how the land lies
how the wind blows
how they fall
how things are
how things stack up
how things stand
how you doin'
how's every little thing
how's the world treating you
how's things
how's tricks
how-d'ye-do
how-de-do
how-do-ye
how-do-ye-do
how-do-you-do
how-to
how-to book
howdy-do
however that may be
howgozit curve
howl down
howl like all the devils of hell
howler monkey
howling monkey
howling success
howling wilderness
howling wind
hoyle shooting
hr factor
hr-
hub a dub
hub borer
hub brake
hub braking
hub driller
hub dynamometer
hub maker
hub odometer
hub of industry
hub turner
hub-band
hub-bander
hub-banding
hub-boring
hub-deep
hub-turning
hubba hubba
hubble-bubble
huckle-bone
huddler-mudder
huddle on
hudson seal
hue and cry
hue cycle
huff and puff
huff-cap
huff-duff
huff-shouldered
huff-snuff
hug the coast
hug the earth
hug the land
hug the shore
hug yourself
hug-me-tight
huge-armed
huge-bellied
huge-bodied
huge-boned
huge-built
huge-grown
huge-horned
huge-jawed
huge-limbed
huge-looking
huge-proportioned
huge-tongued
hugger-mugger
hugger-muggeries
hugger-muggery
hula girl
hula hoop
hula skirt
hula-hula
hull balance
hull down
hull efficiency
hull girder
hull insurance
hull up
hull-less
hull-less oat
hulling line
hully gully
hum and haw
hum note
hum tone
hum-bird
human being
human dynamo
human ecology
human engineering
human equation
human error
human factor
human family
human form
human frailty
human geography
human interest
human mountain
human nature
human paleontology
human race
human rights
human sacrifice
human species
human weakness
human wreck
human-headed
human-interest story
humane letters
humane society
humanistic scholarship
humanistic therapy
humanized vaccine
humanly possible
humanum est errare
humble apology
humble pie
humble plant
humble yourself
humble yourself before
humble-bee
humble-looking
humble-mannered
humble-minded
humble-mindedly
humble-mindedness
humble-spirited
humble-visaged
humbled pride
humbug-proof
humeral veil
humero-
humero-olecranal
humic acid
humid weather
humidity control
humidity indicator
humidity instrument
humidity wind rose
humidity-proof
humiliate yourself
humite group
hummel corn
humming top
humming-bird
hummingbird moth
hump it
hump speed
hump yard
hump yourself
hump-backed
hump-shaped
hump-shoulder
hump-shouldered
humpback bridge
humpback whale
humpbacked salmon
humped cattle
humpty dumpty
humpty-dumpy
hunch down
hundred days
hundred per cent
hundred's place
hundred-dollar
hundred-dollar bill
hundred-eyed
hundred-feathered
hundred-footed
hundred-handed
hundred-headed
hundred-leaf
hundred-leaved
hundred-legged
hundred-legs
hundred-mile
hundred-percent
hundred-percent American
hundred-percenter
hundred-pound
hundred-pounder
hundred-to-one shot
hundred-yard dash
hundred-year
hundreds and thousands
hundredth's place
hung jury
hung over
hung up
hung up on
hung-up
hunger after
hunger belt
hunger for
hunger grass
hunger march
hunger marcher
hunger strike
hunger striker
hunger-bit
hunger-bitten
hunger-driven
hunger-mad
hunger-pressed
hunger-starve
hunger-stricken
hunger-stung
hunger-worn
hungry as a bear
hungry mouth
hungry rice
hunk of a man
hunker down
hunky-dory
hunt and peck
hunt board
hunt box
hunt button
hunt down
hunt for
hunt in couples
hunt out
hunt table
hunt the slipper
hunt through
hunt up
hunt's-up
hunter green
hunter trials
hunter's green
hunter's moon
hunter's pink
hunter's robe
hunter-killer submarine
hunting box
hunting cap
hunting case
hunting cat
hunting chair
hunting cry
hunting dog
hunting expedition
hunting ground
hunting horn
hunting knife
hunting leopard
hunting license
hunting lodge
hunting miter
hunting shirt
hunting spider
hunting sword
hunting trip
hunting watch
hunting-ground
huntsman's-cup
hurdle race
hurdle racer
hurdle work
hurdles, the
hurdy-gurdies
hurdy-gurdist
hurdy-gurdy
hurdy-gurdy man
hurdy-gurdyist
hurl a brickbat
hurl against
hurl at
hurl at the head of
hurl defiance
hurl forth
hurl-bone
hurley stick
hurley-hacket
hurly burly
hurly-burlies
hurly-burly
hurr-bur
hurrah campaign
hurricane bird
hurricane deck
hurricane globe
hurricane house
hurricane hunter
hurricane lamp
hurricane lantern
hurricane signal
hurricane tracking
hurricane warning
hurricane-decked
hurricane-force wind
hurricane-hunter aircraft
hurricane-proof
hurry about
hurry along
hurry away
hurry call
hurry off
hurry on
hurry through
hurry up
hurry-burry
hurry-scurried
hurry-scurry
hurry-scurrying
hurry-skurried
hurry-skurry
hurry-skurrying
hurry-up
hurst beech
hurt the feelings
husband and wife
husband your resources
husband-to-be
hush as death
hush money
hush my mouth
hush of night
hush puppy
hush ship
hush shop
hush tube
hush up
hush your mouth
hush-boat
hush-hush
hush-money
hush-up
hushed attention
hushed-up
husk corn
husk tomato
husk-tomato
husking bee
husking glove
husking peg
husky eater
hustings court
hustle out
hustle up
hustle-cap
hut circle
hut-keep
hut-shaped
hutch table
hutia carabali
hutia conga
hw-
hy-spy
hyacinth bacteriosis
hyacinth bean
hyacinth blue
hyacinth red
hyacinth squill
hyacinth violet
hyacinth-flowered
hyal-
hyaline cartilage
hyaline degeneration
hyaline membrane disease
hyalo-
hyaloid membrane
hyaluronic acid
hybern-
hybrid computer
hybrid corn
hybrid perpetual
hybrid perpetual rose
hybrid stop
hybrid tea
hybrid tea rose
hybrid vigor
hybrid vigour
hybrid word
hydatid cyst
hydatid mole
hydnocarpic acid
hydr-
hydrangea blue
hydrargyi subchloridum
hydrated alumina
hydrated lime
hydration number
hydraulic accumulator
hydraulic brake
hydraulic coupling
hydraulic engine
hydraulic engineer
hydraulic fluid
hydraulic jump
hydraulic lift
hydraulic machinery
hydraulic mining
hydraulic motor
hydraulic organ
hydraulic pile
hydraulic power
hydraulic press
hydraulic radius
hydraulic ram
hydraulic servo
hydraulic suspension
hydraulic tailgate
hydraulic torque converter
hydraulic-fill dam
hydraulico-
ydrazo group
hydrazo radical
hydrazoic acid
hydriodic acid
hydro-
hydro-aeroplane
hydro-airplane
hydro-electric
hydro-jet
hydro-pneumatic
hydro-ski
hydro-ureter
hydrobromic acid
hydrocarbon cement
hydrochloric acid
hydrocinnamic aldehyde
hydrocinnamoyl group
hydrocinnamoyl radical
hydrocinnamyl group
hydrocinnamyl radical
hydrocyanic acid
hydroelectric plant
hydroelectric power
hydrofluoric acid
hydrogen arsenide
hydrogen blast
hydrogen bomb
hydrogen bond
hydrogen bromide
hydrogen carbonate
hydrogen chloride
hydrogen cyanide
hydrogen dioxide
hydrogen electrode
hydrogen fluoride
hydrogen iodide
hydrogen ion
hydrogen oxide
hydrogen peroxide
hydrogen selenide
hydrogen silicide
hydrogen sulfide
hydrogen sulphate
hydrogen sulphide
hydrogen sulphite
hydrogen tartrate
hydrogen telluride
hydrogen-bomb
hydrogenated fat
hydrographic chart
hydrographic oceanographic
hydrologic cycle
hydromellitic acid
hydrometric pendulum
hydronium ion
hydropenia cat
hydrostatic balance
hydrostatic head
hydrosulfurous acid
hydrosulphurous acid
hydratelluric acid
hydrothermal water
hydroxide ion
hydroxonium ion
hydroxy acid
hydroxy aldehyde
hydroxy ketone
hypoplastic anemia
hypospray injection
hyposulfurous acid
hyposulphurous acid
hypothecated stock
hypothesis ad hoc
hypothesis and verification
hypothetical imperative
hypothetico-disjunctive
hyps-
hypsi-
hypos-
hyraci-
hyson skin
hyssop loosestrife
hyssop oil
hyssop skullcap
hyssop spurge
hyssop violet
hyssop-leaved
hyst-
hyster-
hysteresis coefficient
hysteresis curve
hysteresis loop
hysteresis loss
hysteresis meter
hysteria libidinosa
hysteria-proof
hysterical aphonia
hysterical epilepsy
hysterical fever
hysterical mutism
hystero-
hystero-epilepsy
hystero-epileptic
hystero-epileptogenic
hystero-oophorectomy
hystero-salpingostomy
hysteron proteron
hysteron-proteron
i beam
i
i-come
i-cried
i-fere
i-type semiconductor
ia-
iambic pentameter
iatro-
iatrogenic disease
ibn-Batuta
ibn-Rushd
ibn-Saud
ibn-Sina
ice age
ice anchor
ice apron
ice ax
ice axe
ice bag
ice banner
ice barrier
ice beam
ice bear
ice belt
ice bird
ice bridge
ice bucket
ice bulletin
ice calorimeter
ice canoe
ice cap
ice cave
ice chest
ice chipper
ice chopper
ice claw
ice code
ice collar
ice color
ice concrete
ice cream
ice creeper
ice crusher
ice crystal
ice crystals
ice cube
ice cuber
ice cubes
ice cutter
ice dealer
ice dike
ice dock
ice drag
ice duck
ice feathers
ice fern
ice field
ice fish
ice fishing
ice floe
ice flower
ice flowers
ice fog
ice foot
ice fork
ice fox
ice front
ice glass
ice gorge
ice gull
ice gush
ice hockey
ice hook
ice house
ice island
ice jam
ice lance
ice lead
ice line
ice lolly
ice machine
ice maker
ice making
ice master
ice milk
ice nail
ice needle
ice over
ice pack
ice pail
ice paper
ice partridge
ice pellets
ice period
ice petrel
ice pick
ice pillar
ice pilot
ice pink
ice pinnacle
ice plant
ice plow
ice point
ice raft
ice rain
ice rampart
ice rink
ice river
ice run
ice scraper
ice shaver
ice shed
ice sheet
ice shelf
ice ship
ice show
ice skate
ice skates
ice skating
ice sky
ice spar
ice spur
ice stick
ice storm
ice stream
ice ton
ice tongs
ice tongue
ice up
ice water
ice whale
ice yacht
ice yachting
ice yachtsman
ice-bird
ice-blind
ice-boat
ice-bolt
ice-bound
ice-breaker
ice-breaking
ice-brook
ice-built
ice-cap
ice-capped
ice-chipping
ice-clad
ice-cold
ice-cool
ice-cooled
ice-covered
ice-cream
ice-cream cone
ice-cream fork
ice-cream freezer
ice-cream soda
ice-cream sundae
ice-crushing
ice-crusted
ice-cube
ice-cube machine
ice-cubing
ice-cutting
ice-encrusted
ice-enveloped
ice-fall
ice-field
ice-floe
ice-foot
ice-free
ice-green
ice-hill
ice-hook
ice-house
ice-imprisoned
ice-island
ice-laid
ice-locked
ice-master
ice-mountain
ice-plant
ice-plough
ice-scoured
ice-sheet
ice-s skate
ice-skated
ice-skating
ice-stream
ice-work
iceberg lettuce
icebox cake
iced coffee
iced tea
iced-tea spoon
iceland moss
iceland poppy
iceland spar
ich dien
identification space
identification tag
identification thread
identified as
identify with
identify yourself with
identity card
identity crisis
identity matrix
identity theory of mind
ideo-
ideo-unit
ideogrammatic character
ideogrammatic symbol
ideogrammic character
ideogrammic symbol
ideographic character
ideographic symbol
ideopathic epilepsy
ides of March
idio-
idiom dictionary
idiomorphic-granular
idiot board
idiot box
idiot card
idiot savant
idiot savants
idiot sheet
idiot stitch
idiot work
idiot's delight
idiotic grin
idiots savants
idle away
idle away time
idle chat
idle chatter
idle chatterer
idle current
idle fancy
idle gear
idle gossip
idle hands
idle hours
idle pulley
idle rich
idle talk
idle threat
idle wheel
idle-brained
idle-handed
idle-headed
idle-looking
idle-minded
idle-pated
idle-witted
idler gear
idler pulley
idler wheel
idol breaker
idol worship
idol worshiper
idol worshiping
idolo-
idols of the cave
idols of the forum
idols of the market place
idols of the theater
idols of the tribe
idonic acid
ie-
ier-oe
if and only if
if and when
if at all
if ever
if humanly possible
if it be so
if it be true that
if it should happen that
if it so happens
if it turns out
if necessary
if need be
if not
if only
if possible
if worst comes to worst
if you please
if you wish
if-clause
ife hemp
ignatius' bean
igneous rock
ignes fatui
igni-
ignis fatuus
ignis fatuus
ignition cable
ignition cap
ignition charge
ignition key
ignition point
ignition temperature
ignition tube
ignoble vulgus
ignominious defeat
ignoratio elenchii
ignore grammar
ignore it
ignore opportunity's knock
ignotum per ignotius
ikrar-namah
iIl Duce
iIl-
ilang-ilang
ile-
ileo-
ileo-ileostomy
iliac artery
ilio-
ilio-inguinal
iliotibial band
ill at ease
ill blood
ill breeding
ill disposition
ill done-by
ill fame
ill feeling
ill fortune
ill hap
ill health
ill house
ill humor
ill humored
ill humour
ill luck
ill manners
ill nature
ill off
ill repute
ill service
ill success
ill temper
ill turn
ill usage
ill use
ill will
ill wind
ill-
ill-according
ill-accoutered
ill-acquainted
ill-acquired
ill-acted
ill-adapted
ill-adventured
ill-advised
ill-advisedly
ill-affected
ill-affectedly
ill-affectedness
ill-agreeable
ill-agreeing
ill-annexed
ill-armed
ill-arranged
ill-assimilated
ill-assorted
ill-assorted marriage
ill-at-ease
ill-balanced
ill-balanced sentences
ill-befitting
ill-begotten
ill-behaved
ill-being
ill-beseeching
ill-bested
ill-boding
ill-born
ill-borne
ill-breathed
ill-bred
ill-bred fellow
ill-built
ill-calculating
ill-caused
ill-celebrated
ill-cemented
ill-chosen
ill-clad
ill-cleckit
ill-coined
ill-colored
ill-come
ill-comer
ill-composed
ill-concealed
ill-conceived
ill-concerted
ill-conditioned
ill-conditionedness
ill-conducted
ill-considered
ill-consisting
ill-contented
ill-contenting
ill-contrived
ill-cured
ill-customed
ill-deedy
ill-defined
ill-definedness
ill-devised
ill-digested
ill-directed
ill-disciplined
ill-disposed
ill-disposedness
ill-dissembled
ill-doing
ill-done
ill-drawn
ill-dressed
ill-educated
ill-effaceable
ill-equipped
ill-erected
ill-executed
ill-famed
ill-farabled
ill-faring
ill-faringly
ill-fashioned
ill-fated
ill-fated life
ill-fatedness
ill-favor
ill-favored
ill-favoredly
ill-favoredness
ill-favoured
ill-favouredly
ill-favouredness
ill-featured
ill-fed
ill-fitted
ill-fitting
ill-flavored
ill-foreseen
ill-formed
ill-found
ill-founded
ill-friended
ill-furnished
ill-gauged
ill-gendered
ill-given
ill-got
ill-gotten
ill-gotten gains
ill-governed
ill-greeting
ill-grounded
ill-hap
ill-headed
ill-health
ill-housed
ill-humor
ill-humored
ill-humored person
ill-humored woman
ill-humoredly
ill-humoredness
ill-humoured
ill-humouredly
ill-humouredness
ill-imagined
ill-informed
ill-intentioned
ill-invented
ill-joined
ill-judge
ill-judged
ill-resounding
ill-rewarded
ill-roasted
ill-rulled
ill-satisfied
ill-savored
ill-scented
ill-seasoned
ill-seen
ill-served
ill-set
ill-shaped
ill-smelling
ill-sorted
ill-sounding
ill-spent
ill-spun
ill-starred
ill-strung
ill-succeding
ill-suited
ill-suiting
ill-supported
ill-tasted
ill-taught
ill-tempered
ill-temperedly
ill-temperedness
ill-time
ill-timed
ill-tongued
ill-treat
ill-treated
ill-treater
ill-treatment
ill-tuned
ill-turned
ill-understood
ill-usage
ill-use
ill-used
ill-using
ill-ventilated
ill-weaved
ill-wedded
ill-willed
ill-willer
ill-willie
imaginal disk
imaginal type
imaginary axis
imaginary invalid
imaginary number
imaginary part
imaginary unit
imagination-proof
imaginative exercise
imagist verse
imagistic poetry
imb-
imbition process
imbricato-
imbue with life
imbued with
imbued with life
imide chloride
imid group
imid radical
imino ester
imino group
imino radical
imitation doublet
imitation fur
imitation leather
imitation vermilion
imitation-proof
imitative magic
immaculate conception
immanent cause
immature personality
immaturity reaction
immediate annuity
immediate cause
immediate cognition
immediate communication
immediate constituent
immediate constituent analysis
immediate dislike
immediate foreground
immediate future
immediate neighbor
immediate prospect
immediate purpose
immediate resources
immediately if not sooner
immemorial usage
immense number
immersed in
immersed in thought
immersion foot
immersion heater
immersion lens
immersion scale
immolation before
immortal hand
immortal name
immovable feast
immune body
immune globulin
immune serum
immunity theory
immunization therapy
immuno-
immunosuppressive drug
imou pine
imp gal
imp-pole
impact area
impact parameter
impact pressure
impact test
impact theory
impaired hearing
impairment of motor function
impairment of speech
impanel a jury
impartial arbitrator
impatient of
impatient of control
impatient of discipline
impedance coil
impedance component
impedance drop
impedance matching
impedance ratio
impedient impediment
impelling force
impend over
imperceptible duration
imperfect cadence
imperfect competition
imperfect contrition
imperfect flower
imperfect fungus
imperfect knowledge
imperfect number
imperfect rhyme
imperfect speech
imperfect usufruct
imperfect vision
imperfectly spoken
imperial Brussels
imperial eagle
imperial elephant
imperial gallon
imperial jade
imperial mammoth
imperial moth
imperial octavo
imperial purple
imperial quarto
imperialist threat
imperially slim
imperium in imperio
impersonal verb
impervious to
impervious to light
impervious to persuasion
imperviousness to light
impinge on the eye
impinge on your consciousness
impingement attack
impious person
implant in
implantation cone
implicate yourself
implicated in
implicit belief
implicit consent
implicit differentiation
implicit function
implicit function theorem
implied contract
implied meaning
implied threat
implore counsel
implore mercy
import credit
import tax
important person
important persons
important point
impute shame to
impute to
in Abraham's bosom
in Argolis
in Davy Jones's locker
in Dutch
in God's good time
in Indian file
in NW Africa
in Queer Street
in Sunday best
in Technicolor
in a backwater
in a bad humor
in a bad way
in a beeline
in a big way
in a bind
in a bit
in a blaze
in a blue funk
in a body
in a bondman's key
in a bother
in a botheration
in a box
in a capsule
in a chain
in a chorus
in a circle
in a class by itself
in a cloud
in a corner
in a crescendo
in a dark corner
in a daze
in a dead calm
in a delicate condition
in a different manner
in a dilemma
in a direct line
in a dither
in a fair manner
in a fair way
in a fair way to
in a fashion
in a ferment
in a fever
in a few words
in a fix
in a flash
in a flurry
in a fluster
in a flutter
in a fog
in a foofaraw
in a frenzy of desire
in a fright
in a fume
in a funk
in a fury
in a frenzy of desire
in a glow
in a good
in a good mood
in a good state of preservation
in a groove
in a haze
in a hole
in a hole-and-corner way
in a huddle
in a huff
in a hurry
in a jam
in a jiff
in a jiffy
in a jumble
in a lather
in a lather of haste
in a line
in a line for
in a little bit
in a little while
in a manner
in a manner of speaking
in a maze
in a measure
in a mess
in a minute
in a mist
in a moment
in a muck of a sweat
in a muddle
in a nice pickle
in a nutshell
in a panic
in a passion
in a pet
in a pickle
in a pig's eye
in a position to
in a pother
in a predicament
in a pretty pass
in a pretty pickle
in a pucker
in a quandary
in a quiver
in a rage
in a reverie
in a roundabout way
in a row
in a rush
in a rut
in a scrape
in a second
in a sense
in a series
in a shake
in a shocking humor
in a short time
in a short while
in a small compass
in a small way
in a smart-alecky way
in a smart-ass fashion
in a sorry plight
in a sound sleep
in a spin
in a spot
in a squirrel cage
in a stable state
in a state
in a state of nature
in a state of suspense
in a stew
in a straight line
in a stupor
in a sweat
in a sweat of haste
in a swivet
in a temper
in a tight spot
in a tizzy
in a trance
in a transport
in a transport of delight
in a trice
in a tumble
in a turmoil
in a twink
in a twinkling
in a twitter
in a watery bier
in a watery grave
in a wax
in a way
in a while
in a whirl
in a whisper
in a wink
in a word
in abeyance
in absentia
in abstracto
in abundance
in accord
in accordance
in accordance with
in action
in actuality
in addition
in addition to
in adjustment
in admiration
in advance
in advance of
in advance of your age
in adverse circumstances
in aeternum
in aftertime
in agreement
in agreement with
in aid of
in alarm
in all
in all ages
in all conscience
in all creation
in all directions
in all directions at once
in all fairness
in all haste
in all its intensity and color
in all likelihood
in all manner of ways
in all places
in all probability
in all quarters
in all reason
in all respects
in all seriousness
in all soberness
in all your born days
in alt
in altissimo
in amazement
in ambuscade
in ambush
in amends
in an aside
in an evil hour
in an instant
in an uncertain state
in an undertone
in an unguarded moment
in an uproar
in ancient times
in and in
in and out
in anger
in another way
in answer
in anticipation
in anticipation of
in antis
in any case
in any event
in any possible way
in any way
in apple-pie order
in apposition
in armor
in arms
in arrear
in arrears
in articulo mortis
in ascendancy
in association
in association with
in astonishment
in at the death
in atonement
in authority
in awe
in awe of
in back of
in bad
in bad humor
in bad odor
in bad odor with
in bad repute
in bad spirits
in bad taste
in bad with
in balance
in balk
in ballast
in banc
in banco
in base
in battle array
in bed
in bedrock
in behalf of
in being
in bend
in between
in bewilderment
in bits
in bits and pieces
in black and white
in bloom
in blossom
in blue water
in board
in bold relief
in bondage
in bonds
in brief
in brief compass
in broad daylight
in broad terms
in brodo
in buckram
in bud
in bulk
in cahoot
in cahoots
in camera
in captivity
in case
in case of
in case that
in cash
in chains
in chambers
in chancery
in character
in charge
in charge of
in check
in chevron
in chief
in childbirth
in chorus
in circles
in circulation
in closed meeting
in clover
in cold blood
in collaboration
in collision
in collusion
in color
in column
in combat
in comfort
in command
in commemoration
in commemoration of
in commendam
in commission
in common
in company
in company with
in comparison with
in compensation
in competition
in complete steel
in compliance with
in complicity
in concert
in concert with
in conclave
in conclusion

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in concord
in condition
in conference
in confidence
in confinement
in confirmation
in conflict with
in conformity with
in conformity with the evidence
in conformity with the facts
in confrontation
in confusion
in conjunction
in conjunction with
in connection with
in conscience
in consequence
in consequence of
in consideration
in consideration of
in consternation
in consultation
in contact
in contact with
in contemplation of
in contempt
in contempt of
in contradiction
in contrast with
in control
in cooperation
in cooperation with
in corpore
in correspondence to
in corroboration of
in costume
in council
in course of preparation
in court
in crowds
in curve
in custody
in danger
in danger imminent
in danger of
in darkness
in days of yore
in debate
in debt
in deep
in deep water
in default
in default of
in defense
in deference to
in defiance of
in demand
in denial
in depth
in despair
in desperate case
in desperate straits
in despite of
in detail
in detention
in diapers
in difficulties
in difficulty
in disagreement
in disagreement with
in disarray
in discredit
in disdain
in disfavor
in disgrace
in disguise
in dishabille
in disorder
in dispute
in disrepair
in disrepute
in distress
in double harness
in double time
in double-quick time
in doubt
in driblets
in dribs and drabs
in dubio
in due course
in due form
in due season
in due time
in dumb show
in duplicate
in durance vile
in duty bound
in earnest
in ease
in eclipse
in ecstasies
in ecstasy
in effect
in either case
in embarrassed circumstances
in embryo
in epitome
in equal shares
in equilibrio
in equilibrium
in equipoise
in equity
in error
in escrow
in esse
in essence
in every clime
in every direction
in every hole and corner
in every instance
in every nook and cranny
in every place
in every quarter
in every region
in every respect
in every your mouth
in everyone's mouth
in evidence
in excess
in excess of
in exchange
in executive session
in exercise
in existence
in expectation
in explanation
in extenso
in extremis
in extremities
in fact
in faith
in fashion
in fault
in favor
in favor of
in fear
in fear and trembling
in fear of your life
in fee
in fee simple
in fess
in file
in fine
in fine feather
in fine fettle
in fine shape
in fine whack
in fits and starts
in flagrante delicto
in flames
in flat opposition
in flight
in flood
in flower
in focus
in for it
in force
in foreign parts
in forma pauperis
in frame
in front
in front of
in full
in full bloom
in full cry
in full dress
in full feather
in full force
in full measure
in full sail
in full swing
in full view
in fun
in funds
in furtherance of
in future
in futuro
in gear
in general
in general terms
in glory
in glowing terms
in good case
in good condition
in good earnest
in good faith
in good form
in good health
in good heart
in good odor
in good part
in good season
in good set terms
in good shape
in good spirits
in good supply
in good taste
in good time
in good trim
in good truth
in good with
in great measure
in grief
in half
in half a jiffy
in half a mo
in half a shake
in half measures
in halves
in hand
in harbor
in harmony
in harmony with
in harness
in haste
in haste like a snail
in health
in heaps
in heat
in heaven
in hell
in hellfire
in hiding
in hidlings
in high
in high dudgeon
in high esteem
in high estimation
in high favor
in high feather
in high gear
in high relief
in high spirits
in historic times
in hoc
in hoc signo vinces
in hock
in hold
in holes and corners
in holy orders
in honor of
in hopes
in hospital
in hostile array
in hot blood
in hot haste
in hot pursuit
in hot water
in hysterics
in idea
in ignorance of
in imitation of
in infinitum
in installments
in irons
in its entirety
in its infancy
in its own way
in its place
in its stead
in itself
in jeopardy
in jest
in joke
in justice
in juxtaposition
in keeping
in keeping with
in kelter
in kilter
in kind
in large
in layers
in leading strings
in leaf
in league
in leash
in length
in nappies
in narrow circumstances
in native buff
in nature's garb
in need
in need of rest
in negligee
in no case
in no long time
in no place
in no respect
in no time
in no uncertain terms
in no way
in no wise
in nomine
in nothing flat
in numbers
in obedience to
in olden times
in omnia paratus
in one way or another
in one word
in open court
in operation
in opposition
in opposition to
in order
in order that
in order to
in orders
in ordinary
in orle
in other respects
in other ways
in other words
in our time
in outline
in ovo
in pain
in pais
in pale
in pantomime
in paradise
in parallel
in pari delicto
in part
in partibus
in particular
in partnership
in passage to
in passing
in pawn
in pectore
in pendentive
in penury
in peril
in perpetual remembrance
in perpetuity
in perpetuum
in person
in personam
in petto
in phase
in pieces
in place
in place of
in places
in plain English
in plain sight
in plain style
in plain terms
in plain view
in plain words
in play
in plenty
in point
in point of
in point of fact
in poor health
in poor taste
in port
in position
in posse
in possession of
in possession of your faculties
in possession of your senses
in posthaste
in power
in practice
in praesenti
in preference
in preference to
in prehistoric times
in preparation
in preparation for
in pretense
in principle
in print
in prison
in privacy
in private
in private conference
in privy
in process
in production
in profusion
in progress
in proper season
in proper time
in proportion
in propria persona
in prose
in prospect
in public
in public view
in purdah
in puris naturalibus
in pursuance of
in pursuit
in pursuit of
in quantities
in quantity
in quest of
in question
in quick succession
in rags
in range
in rapid succession
in rapport
in raptures
in re
in readiness
in ready state
in reality
in reason
in rebuttal
in receivership
in reciprocation
in recompense
in red letters
in reduced circumstances
in reference to
in regard to
in secret meeting
in seed
in seeming
in seisin
in self-defense
in sequence
in service
in session
in set form
in set phrases
in set terms
in seven-league boots
in seventh heaven
in shape
in shards
in shelter
in shore
in short
in short order
in short supply
in shorthand
in shreds
in sickness and in health
in sight
in silence
in single file
in sinu Abraham
in situ
in slavery
in slow motion
in slow tempo
in small doses
in smithereens
in snatches
in so far
in so far as
in so many words
in society
in solido
in solidum
in solitude
in solution
in some measure
in some place
in some such way
in some way
in some way or other
in sooth
in soundings
in spades
in spate
in specie
in spite
in spite of
in spite of yourself
in spitting distance
in sport
in spots
in statu quo
in step
in step with
in stir
in stock
in store
in straitened circumstances
in strict confidence
in strong relief
in stud
in style
in subjection
in substance
in succession
in such wise
in sum
in summary
in supply
in support of
in suspense
in suspension
in swaddling clothes
in swarms
in sync
in synchronization
in tails
in tatters
in tears
in tempo
in terror
in terrorem
in terrorem clause
in that
in that case
in that event
in that instance
in that neighborhood
in that place
in that vicinity
in that way
in the Christian Era
in the Common Era
in the absence of
in the abstract
in the act
in the act of
in the affirmative
in the aftermath
in the age of
in the aggregate
in the air
in the aisle
in the altogether
in the arms of Morpheus
in the ascendant
in the background
in the bag
in the balance
in the beginning
in the best taste
in the black
in the blood
in the bloom of youth
in the bosom of the lodge
in the bosom of your family
in the bud
in the buff
in the can
in the cannon's mouth
in the cards
in the care of
in the center of
in the chains
in the charge of
in the chips
in the circumstances
in the clear
in the clouds
in the clover
in the clutches
in the cold
in the contingency that
in the course of
in the course of business
in the course of things
in the course of time
in the cradle
in the crib
in the dark
in the dark of night
in the dead of night
in the depths
in the direction of
in the distance
in the doghouse
in the doleful dumps
in the driver's seat
in the dumps
in the dust
in the era of
in the event of
in the event that
in the extreme
in the eye of the wind
in the eyes of
in the eyes of the law
in the face of
in the face of day
in the face of death
in the face of heaven
in the family way
in the field
in the fire
in the first place
in the flesh
in the flower of youth
in the forefront
in the foreground
in the fourth place
in the front
in the fullness of time
in the future
in the gaseous state
in the glare of publicity
in the good old days
in the grand style
in the grave
in the grave six feet under
in the groove
in the gross
in the gutter
in the habit of
in the hands of
in the heart
in the heat of passion
in the highest degree
in the hole
in the hopper
in the humor
in the immediate future
in the interest
in the interim
in the intervening time
in the jaws of death
in the know
in the land of Nod
in the land of the living
in the lap of Morpheus
in the large
in the latest mode
in the latest style
in the lead
in the light of
in the limelight
in the limits of
in the line of duty
in the long run
in the lump
in the main
in the majority
in the making
in the market
in the market for
in the marketplace
in the marts of trade
in the mass
in the matter of
in the mean
in the meantime
in the meanwhile
in the melting mood
in the memory of man
in the middle
in the middle of
in the middle of the road
in the midst of
in the midst of battle
in the mind
in the mode
in the money
in the mood
in the morning
in the name of
in the natural way of things
in the near future
in the negative
in the neighborhood
in the neighborhood of
in the news
in the nick of time
in the night
in the nursery
in the offing
in the old days
in the olden time
in the open
in the open air
in the opinion of
in the oven
in the past
in the pink
in the pink of condition
in the pipeline
in the place of
in the plenitude of power
in the presence of
in the process of
in the process of time
in the public eye
in the raw
in the rear
in the red
in the remote distance
in the right
in the rough
in the saddle
in the same boat
in the same breath
in the same category
in the same manner
in the same way as
in the same words
in the second instance
in the second place
in the secret
in the semblance of
in the sequel
in the service of
in the shade
in the shadow of a rock
in the singular
in the small
in the soup
in the spotlight
in the state of nature
in the stead of
in the sweet by-and-by
in the swim
in the teeth of
in the teeth of the wind
in the thick of
in the thick of combat
in the thick of the fray
in the third place
in the thoughts
in the time of
in the train of
in the twinkling of an eye
in the usual course
in the van
in the vein
in the very act
in the very grain
in the vicinity
in the vicinity of
in the wake of
in the way
in the white
in the whole wide world
in the wide world
in the wind
in the wind's eye
in the wings
in the womb of time
in the works
in the world
in the worst way
in the wrong
in the wrong box
in the wrong pew
in the wrong place
in the year of our Lord
in theory
in there with
in these days
in this day and age
in this place
in this vicinity
in this way
in those parts
in throngs
in time
in times gone by
in times past
in torment
in toto
in tow
in trans
in transit
in transit to
in transitu
in trim
in triplicate
in triumph
in trouble
in trust
in truth
in tune
in turn
in turns
in twain
in two
in two shakes
in two shakes of a lamb's tail
in two words
in uniformity with
in unison
in unison with
in use
in utero
in vacuo
in vain
in various places
in velvet
in very sooth
in very truth
in view
in view of
in view of the fact that
in vino veritas
in violation of law
in virtue of
in vitro
in vivo
in vogue
in want
in want of
in way of
in what condition
in what manner
in what period
in what place
in what way
in which place
in which time
in white tie and tails
in with
in wonder
in words of one syllable
in words to that effect
in working order
in writing
in years
in your armor
in your bad books
in your behalf
in your best bib and tucker
in your birthday suit
in your black books
in your book
in your books
in your charge
in your chest
in your clutches
in your control
in your cups
in your element
in your employ
in your estimation
in your eye
in your favor
in your good
in your good books
in your good graces
in your grasp
in your grip
in your hands
in your heart of hearts
in your inmost thoughts
in your opinion
in your own hand
in your own interest
in your own person
in your own right
in your own sweet way
in your own way
in your pay
in your place
in your pocket
in your possession
in your power
in your prime
in your right mind
in your second childhood
in your shell
in your shirt sleeves
in your shirt-sleeves
in your shoes
in your sleeve
in your sober senses
in your stead
in your stocking feet
in your teens
in your thinking
in your tracks
in-
in-and-in
in-and-out
in-and-out bond
in-and-outer
in-beaming
in-being
in-between
in-bond shop
in-book
in-breeding
in-built
in-calf
in-car
in-clearer
in-clearing
in-clerk
in-co-ordinate
in-co-ordinated
in-co-ordination
in-crowd
in-dimension
in-fighting
in-flight
in-flight refueling
in-flight refueling tanker
in-flight training
in-goal
in-going
in-group
in-house
in-knee
in-kneed
in-law
in-laws
in-lb
in-lean
in-line
in-line engine
in-lot
in-marriage
in-migrant
in-migrate
in-migration
in-off
in-patient
in-phase
in-plant
in-quarto
in-sail
in-service
in-service training
in-the-wool
in-to-out
in-toed
in-tray
inability to believe
inactive market
inactive stock
inactive war
inadequate personality
inalienable right
inanimate matter
inasmuch as
inaugural address
inauguration day
inboard profile
inboard-outboard motor
inboard-rigged
inborn aptitude
inborn capacity
inborn predisposition
inborn proclivity
inborn susceptibility
inborn tendency
incandescent body
incandescent electric lamp
incandescent lamp
incandescent light
incandescent lighting
incandescent mantle
incandescent point
incapable of
incapable of life
incarnations of
incasement theory
incendiary antiaircraft rocket
incendiary bomb
incendiary grenade
incendiary rocket
incense boat
incense burner
incense cedar
incense juniper
incense resin
incense shrub
incense tree
incense wood
incense-breathing
incense-breathing morn
incentive pay
incentive wage
inch along
inch by inch
inch forward
inch mast
inch of mercury
inch plant
inch rule
inch your way up
inch-deep
inch-high
inch-long
inch-pound
inch-thick
inch-ton
inch-wide
incidence wire
incident light
incident light meter
incident to
incidental information
incidental music
incidental note
incidental power
incidental remark
incidental to
inciso-
incisor foramen
incito-motor
inclination compass
inclination of the balance
inclination of the head
inclination to believe
inclinatory needle
incline an ear to
incline plane
incline the head
incline toward
incline towards
incline your ear
inclined engine
inclined plane
inclined railway
inclined to
inclined to believe
inclined to forget
inclined toward
inclined-plane clock
inclining toward
include in
include me out
include out
inclusion body
inclusion map
inclusion-exclusion
inclusive disjunction
inclusive of
inclusive or
inco-ordinate
inco-ordination
income account
income after deductions
income after taxes
income basis
income bond
income fund
income group
income sheet
income stock
income tax
income-tax
incoming population
incomplete antibody
incomplete fracture
incontestable clause
incontrovertible evidence
incorporated bar
incorporeal being
incorporeal entity
incorporeal hereditament
increase in size
increase of temperature
increase the chances
increase the temperature
increase twist
increment borer
incremental plotter
incremental recorder
incremental repetition
increscent moon
incur a debt
incur a responsibility
incur costs
incur danger
incur discredit
incur disesteem
incur disgrace
incur dishonor
incur expenses
incur loss
ind-
indanthrene blue
inde blue
indebted to
indecent assault
indecent exposure
indecent proposal
indefinite article
indefinite integral
indefinite number
indefinite pronoun
indefinite quantities
indefinite space
indelibly impressed
indelibly impressed on the mind
indelicate language
indemnity bond
indentured servant
independence day
independence of path
independent assortment
independent clause
independent of
independent of your will
independent school
independent variable
independent-seconds watch
independently rich
independently wealthy
indeterminacy principle
indeterminate sentence
index bar
index card
index center
index correction
index crank
index error
index expurgatorius
index finger
index forest
index fossil
index glass
index hand
index head
index mark
index notation
index number
index of refraction
index per cent
index pin
index plane
index plate
index sector
index set
index-linked
indi-
india ink
india paper
india rubber
india-rubber
indian club
indian corn
indian fig
indian file
indian giver
indian hemp
indian ink
indian licorice
indian meal
indian paintbrush
indian pipe
indian pudding
indian red
indian sign
indian summer
indian tobacco
indian turnip
indicated horsepower
indicating control switch
indicator card
indicator diagram
indicator plant
indicator telegraph
indicator tube
indices Librorum Prohibitorum
indicial equation
indignant displeasure
indignation meeting
indignation-proof
indigo auxiliary
indigo bird
indigo blue
indigo broom
indigo brown
indigo bunting
indigo bush
indigo carmine
indigo copper
indigo dyer
indigo extract
indigo finch
indigo grinder
indigo maker
indigo plant
indigo printing
indigo snake
indigo thorn
indigo weed
indigo white
indigo-bearing
indigo-bird
indigo-blue
indigo-dyed
indigo-grinding
indigo-plant
indigo-producing
indigo-white
indigo-yielding
indirect authority
indirect costs
indirect course
indirect discourse
indirect evidence
indirect infection
indirect initiative
indirect labor
indirect lighting
indirect object
indirect power
indirect primary
indirect proof
indirect question
indirect speech
indirect tax
indisposed to believe
indisposed to communicate
indisposed to talk
indisposition to speak
indisputable evidence
indisputable fact
indistinct speech
individual essence
individual identity
individual liberty
individual medley
individual psychology
individual responsibility
individual retirement account
individual speech competence
individual speech habits
individual speech performance
indo-
indo-aryan
indo-chinese
indo-european
indo-european languages
indo-german
indo-germanic
indo-hittite
indo-iranian
indoleacetic acid
indolebutyric acid
indomitable sea
indoor baseball
indoor-outdoor carpeting
indorse, indorsement
induced current
induced drag
induced radioactivity
induced topology
inductance coil
inductance factor
induction accelerator
induction balance
induction bridge
induction coil
induction compass
induction current
induction furnace
induction generator
induction hardening
induction heat
induction heater
induction heating
induction heating machine
induction instrument
induction machine
induction meter
induction motor
induction regulator
induction top
inductive capacity
inductive method
inductive reactance
inductive reasoning
inducto-
inductor alternator
inductor compass
inductor generator
indulge in
indulge in easy vices
indulge in wish-fulfillment
indulge with
indulge your appetite
indulge your appetites
indulge yourself
indurated clay
industrial action
industrial archaeology
industrial art
industrial arts
industrial chemistry
industrial design
industrial designer
industrial disease
industrial economy
industrial engineer
industrial engineering
industrial estate
industrial instrumentation
industrial insurance
industrial life insurance
industrial medicine
industrial park
industrial psychologist
industrial psychology
industrial relations
industrial revolution
industrial school
industrial store
industrial union
industrial worker
industrial zone
inequi-
inert gas
inertia ellipsoid
inertia governor
inertia selling
inertia transmission
inertia-reel seat-belt
inertial guidance
inertial guidance system
inertial mass
inertial navigation
inertial navigation system
inertial reference frame
inertial space
inertial system
inescapable fact
inevitable accident
inevitably narrative
inexpiable sin
inextensive deformation
infant prodigy
infant school
infant-school
infantile amnesia
infantile fixation
infantile paralysis
infantile sexuality
infantry combat
infantry tactics
infants' school
infants' wear
infatuated with
infection hypha
infection period
infection thread
infectious disease
infectious ectromelia
infectious granuloma
infectious hepatitis
infectious keratitis
infectious laryngotracheitis
infectious mononucleosis
infectious myxomatosis
inferior article
inferior court
inferior goods
inferior horse
inferior maxillary
inferior personality
inferior planet
inferiority complex
infernal machine
infernal pit
infernal regions
infero-
infield fly
infiltration gallery
infiltration vein
infinite baffle
infinite duration
infinite goodness
infinite integral
infinite justice
infinite love
infinite mercy
infinite power
infinite product
infinite regress
infinite series
infinite space
infinite spirit
infinite truth
infinite wisdom
infinitely continuous
infinitely extended
infinitesimal calculus
infinitive clause
infinitive marker
infinitive phrase
infinito-
infinito-absolute
infinito-infinitesimal
infinity plug
infirm of purpose
infirm of will
infirm old age
infirmity of age
infirmity of purpose
infirmity of will
inflame with love
inflammable material
inflammatory rheumatism
inflatable slide
inflate prices
inflationary gap
inflationary pressure
inflationary prices
inflationary spiral
inflationary trend
inflationist period
inflection of voice
inflection point
inflexible will
inflict a penalty on
inflict capital punishment
inflict on
inflict pain
inflict upon
influence machine
influence peddler
influence peddling
influence user
influential person
influential persons
inform against
inform on
informa pauperis
informal English
informal agreement
informal language
informal school
informal speech
informal standard speech
informal vote
information against
information center
information explosion
information machine
information media
information medium
information retrieval
information science
information storage
information theory
informatory double
informed in
informed of
informing gun
infra dig
infra dignitatem
infra indignitatem
infra praesidia
infra-
infra-anal
infra-angelic
infra-auricular
infra-axillary
infra-esophageal
infra-red
infra-umbilical
infrared beam projector
infrared broiler
infrared cooker
infrared gas and liquid analyzer
infrared heater
infrared lamp
infrared photography
infrared ray
infrared spectroscopy
infrared telescope
infrared therapy
infrarontgen ray
infringe a copyright
infringement of copyright
infuse life into
infusion process
infusorial earth
ingle cheek
ingle nook
ingle-bred
inglorious defeat
ingot chipper
ingot cutter
ingot forger
ingot heater
ingot iron
ingot lathe
ingot maker
ingot weigher
ingrain carpet
ingratiate yourself
ingratiate yourself with
inguino-
inhabitants of Pandemonium
inhale snuff
inhale spasmodically
inharmonious harmony
inhere in
inherent authority
inherent immunity
inherent power
inherent stability
inherent vice
inheritance factor
inheritance tax
inherited immunity
inhibit your desires
inhibiting antibody
initial rhyme
initial stability
initiation fee
inject in
inject yourself into
injection grid
injection method
ink-wasting
ink-writing
ink-written
inkblot test
inkhorn term
inking bell
inking roller
inky cap
inky-black
inland bill
inland marine insurance
inland sea
inland waters
inlay graft
inlying picket
inmost heart
inmost mind
inmost recesses of the memory
inmost soul
inmost thoughts
inn of court
innate aptitude
innate idea
innate immunity
innate proclivity
innato-
inward arbiter
inner automorphism
inner bar
inner barrister
inner circle
inner city
inner ear
inner essence
inner form
inner jib
inner landscape
inner life
inner light
inner man
inner mechanism
inner mission
inner nature
inner planet
inner product
inner reality
inner recess
inner recesses of the heart
inner recesses of the mind
inner self
inner space
inner station
inner tube
inner workings
inner-city
inner-directed
inner-directed person
inner-directedness
inner-direction
innermost being
innermost recesses
innermost recesses of the heart
innerspring mattress
innocent as a lamb
innocent person
innocent tumor
innocent within
innominate artery
innominate bone
innominate vein
innovation-proof
ino-
inofficious testament
inofficious will
inordinate desire
inorganic chemical
inorganic chemistry
inorganic fertilizer
inorganic matter
inorganic substance
inorganized matter
inositol-hexaphosphoric
inositolhexaphosphoric acid
inp-
inpatient clinic
input conductance
input current
input data
input oscillation
input quantity
input resistance
input voltage
input-output analysis
input-output device
inquire after
inquire for
inquire into
inquire of
inquire onto
inquiring mind
inquiry agent
inquiry into
inquiry into first causes
ins and outs
insane asylum
insanity curing
insanity-proof
insatiable desire
inscribe in the memory
inscribe yourself
insculp'd upon
insect bed
insect flower
insect lime
insect orchis
insect powder
insect sound
insect wax
insect-eating
insect-eating bird
insectivorous bat
insensible to
insensible to the past
inseparable friend
insert in
inset initial
inside and out
inside clinch
inside dope
inside forward
inside information
inside job
inside loop
inside man
inside of
inside out
inside parts
inside straight
inside track
inside wire
inside-out
insigne cum laude
insignia of arm
insignia of branch
instrument flight
instrument flight rules
instrument flying
instrument in proof
instrument instrumentality
instrument lamp
instrument landing
instrument landing system
instrument light
instrument of execution
instrument of punishment
instrument of torture
instrument panel
instrument rocket
instrument servo
instrument transformer
instrumental conditioning
instrumental logic
instrumental music
instrumental score
instruments of
instruments of destruction
insubstantial image
insufficiency of the valves
insufficient funds
insulating tape
insulation resistance
insulin reaction
insulin shock
insulin shock therapy
insurance adjuster
insurance agent
insurance auditor
insurance broker
insurance canvasser
insurance clerk
insurance collector
insurance company
insurance examiner
insurance man
insurance messenger
insurance patrol
insurance policy
insurance reserve
insurance salesman
insurance solicitor
insurance tester
insurance traveler
insurance underwriter
insuring clause
insusceptible of change
intaglio printing
intaglio rilevato
intaglio rilievo
intake manifold
intake valve
intangible assets
integer vitae
integrable group
integral calculus
integral cover
integral curvature
integral curve
integral cylinder head
integral domain
integral equation
integral function
integral humanism
integral photography
integral test
integral unit
integral whole
integrated bar
integrated circuit
integrated data proces
integrated data processing
integrated personality
integrated system
integrating factor
integrating flowmeter
integrating ionization chamber
integration by parts
integration of personality
integrative power
intellectual acquirement
intellectual acquisition
intellectual attainment
intellectual childishness
intellectual climate
intellectual curiosity
intellectual elite
intellectual exercise
intellectual faculty
intellectual genius
intellectual gifts
intellectual grasp
intellectual immaturity
intellectual inertia
intellectual object
intellectual pleasure
intellectual power
intellectual prodigy
intellectual talents
intellectual weakness
intellectually childish
intellectually immature
intelligence agency
intelligence agent
intelligence bureau
intelligence department
intelligence office
intelligence officer
intelligence quotient
intelligence service
intelligence test
intelligence testing
intelligence work
intelligent being
intemperate person
intend to
intense cold
intense darkness
intense heat
intensity of illumination
intensity-modulated display
intensive care
intensive farming
intent on
intent upon
inter alia
inter alios
inter nos
inter se
inter vivos
inter-
inter-‘varsity
inter-Allied
inter-American
inter-Andean
inter-European
inter-agent
inter-brain
inter-plane
inter-varsity
interior mapping
interior monologue
interior paint
interior planet
interior point
interior polygon
interior side
interior slope
interior-sprung
interjection point
interlaced scanning
interlacing arcade
interlibrary loan
interline rate
interlinear translation
interlocking directorate
interlocking directorates
interlocutory decree
intermediate agent
intermediate card
intermediate frequency
intermediate host
intermediate period
intermediate pile
intermediate school
intermediate schooler
intermediate space
intermediate trainer
intermediate vessel
intermediate-frequency amplifier
intermediate-frequency pulse
intermediate-frequency signal
intermediate-frequency tube
intermediate-value theorem
intermedio-lateral
intermeshing rotors
intermeshing-rotor helicopter
intermetallic compound
intermittent claudication
intermittent current
intermittent duct engine
intermittent fever
intermittent movement
internal auditory meatus
internal conversion
internal ear
internal energy
internal evidence
internal friction
internal frustration
internal gear
internal hemorrhoid
internal iliac artery
internal jugular vein
internal medicine
internal reality
internal reconstruction
internal relation
internal respiration
internal revenue
internal revenue agent
internal revenue tax
internal rhyme
internal secretion
internal selector
internal stress
internal-combustion
internal-combustion engine
international Morse code
international agreement
international air mile
international alphabet flag
international angstrom
international bank
international banking
international candle
international carat
international date line
international fixed calendar
international law
international nautical mile
international numeral pennant
international organization
international pitch
international radio silence
international relations
international securities
international temperature scale
international unit
international-minded
internment camp
interno-
internuncial neuron
interpersonal theory
interplanetary explorer
interplanetary rocket
interplanetary space
interplanetary travel
interpretation clause
interpretation of dreams
interpretative dance
interpretive semantics
interquartile range
interracial marriage
interrogation mark
interrogation point
interrogator-responsor
interrupted cadence
interrupted fern
interrupted screw
interrupted sequence
intersecting arcade
intersection locus
intersection of minds
interstate highway
interstellar distance
interstellar space
interstitial irradiation therapy
intertidal zone
interval of convergence
interval operation
interval training
intervening space
intervertebral disc
intervertebral disk
intervertebral substance
intestinal digestion
intestinal flora
intestinal fortitude
intestinal juice
intimate acquaintance
intimate borrowing
intimate friend
intimate friendship
intimate with
intimately related
into arrears
into commission
into high gear
into irons
into it
into question
into the background
into the bargain
into the dust
into the ground
into the past
into the shoes of
into the wind
into the wind's eye
into thin air
into with both feet
into your hands
intolerant person
intonation contour
intonation of voice
intonation pattern
intoxicating liquor
intra muros
intra vires
intra vitam
intra-
intra-abdominal
intra-abdominally
intra-acinous
intra-alveolar
intra-appendicular
intra-arachnoid
intra-arterial
intra-articular
intra-atomic
intra-atrial
intra-aural
intra-auricular
intra-mercurial
intra-urban
intra-urethral
intra-uterine
intra-vitam
intracranial cast
intracutaneous test
intransitive relation
intransitive verb
intrauterine device
intravenous drip
intravenous therapy
intrazonal soil
intrenching tool
intrinsic evidence
intrinsic factor
intrinsic semiconductor
intro-
introduce in
introduce new blood
introductory phrase
introductory study
intrusive rock
intuitional geometry
intuitive impression
intuitive knowledge
intuitive reason
invalid claim
invalid linking
invalid title
invalidity benefit
invariant subalgebra
inveigh against
inventory-clearance sale
inverse cosecant
inverse cosine
inverse cotangent
inverse feedback
inverse function
inverse geometry
inverse image
inverse peak voltage
inverse proportion
inverse ratio
inverse relationship
inverse secant
inverse sine
inverse square law
inverse tangent
inversion casting
inversion center
inversion point
inversion temperature
inversion transconductance
invert soap
invert sugar
inverted comma
inverted cross
inverted engine
inverted flight
inverted king post truss
inverted mordent
inverted normal loop
inverted pleat
inverted snob
inverted spin
inverted turn
invertible counterpoint
inverting telescope
invest in
invest with power
investigation into first causes
investigative agency
investigative bureau
investment bank
investment banker
investment banking
investment banking house
investment bill
investment broker
investment casting
investment company
investment credit
investment mold
investment reserve
investment securities
investment trust
investors on the sidelines
invisible balance
invisible glass
invisible hand
invisible helper
invisible ink
invisible painting
invisible radiation
invisible shadow
invitation to combat
invitational race
invite attention
invite ridicule
invocation of saints
invocatory plea
invocatory prayer
invoke benefits upon
involuntary cooperation
involuntary impulse
involuntary muscle
involuntary presence
involuntary servitude
involute teeth
involute-leaved
involutional melancholia
involutional psychosis
involve in
iridescent seaweed
iridium black
irido-
iris blue
iris diaphragm
iris family
iris green
iris mauve
iris shutter
iris stop
iris-in
iris-out
irish bull
irish coffee
irish moss
irish setter
irish terrier
irish water spaniel
irish wolfhound
irish-gaelic
iron age
iron alum
iron ammonium oxalate
iron bacteria
iron blue
iron boot
iron brick
iron brown
iron buff
iron bullet
iron calker
iron carbide
iron carbonate
iron caster
iron cement
iron chloride
iron citrate
iron clay
iron coating
iron concrete
iron corer
iron crow
iron curtain
iron deficiency anemia
iron discharger
iron dog
iron family
iron filing
iron fitter
iron forger
iron founder
iron foundry
iron gang
iron glance
iron grass
iron gray
iron grey
iron grip
iron gum
iron hand
iron hat
iron heater
iron heel
iron horse
iron hydroxide
iron law of wages
iron liquor
iron loss
iron lung
iron maiden
iron maker
iron man
iron manufacturer
iron miner
iron mining
iron minium
iron mold
iron molder
iron nerves
iron oak
iron ore
iron out
iron oxide
iron perchloride
iron planer
iron plate
iron plater
iron prospector
iron protosulphate
iron puddler
iron putty
iron pyrites
iron ration
iron rations
iron red
iron roller
iron roofer
iron rust
iron sand
iron scale
iron scrap
iron shearer
iron sickness
iron sodium oxalate
iron spinel
iron sponge
iron stand
iron stretcher
iron sulfate
iron sulphate
iron sulphide
iron tree
iron trichloride
iron trimmer
iron vit
iron vitriol
iron will
iron yellow
iron-banded
iron-bark
iron-barred
iron-black
iron-blue dun
iron-blue spinner
iron-bound
iron-boweled
iron-braced
iron-branded
iron-burnt
iron-calked
iron-capped
iron-cased
iron-clenched
iron-coated
iron-colored
iron-core transformer
iron-cored
iron-curtain country
iron-enameled
iron-faced
iron-fastened
iron-forged
iron-founder
iron-free
iron-gloved
iron-grated
iron-gray
iron-grey
iron-guarded
iron-handed
iron-hard
iron-hearted
iron-heartedly
iron-heartedness
iron-heeled
iron-hooped
iron-jawed
iron-jointed
iron-knotted
iron-lined
iron-man
iron-marked
iron-mine
iron-mold
iron-mooded
iron-mould
iron-nailed
iron-nerved
iron-ore
iron-oxide red
iron-pated
iron-railed
iron-red
iron-ribbed
iron-riveted
iron-sand
iron-sceptered
iron-sheathed
iron-sick
iron-souled
iron-spotted
iron-stained
iron-strapped
iron-studded
iron-tipped
iron-tired
iron-toothed
iron-tree
iron-vane meter
iron-visaged
iron-willed
iron-winged
island arc
island base
island chain
island continent
island group
island myrtle
island of Langerhans
island of Reil
island universe
island-belted
island-born
island-contained
island-dotted
island-dweller
island-hop
island-strewn
island-studded
islet of Langerhans
islet of langerhans
islets of Langerhans
iso-
iso-octane
iso-osmotic
iso-urea
iso-uretine
iso-uric
isoamyl acetate
isoamyl benzoate
isoamyl benzyl ether
isoamyl group
isoamyl nitrite
isoamyl radical
isoamyl salicylate
isobaric line
isobutyl propionate
isoclinical line
isoctonic line
isocyanic acid
isocynano group
isocynano radical
isoelectric point
isoganal line
isogonal line
isogonic line
isoionic point
isolate yourself
isolating language
isolation booth
isolation hospital
isolation ward
isomagnetic line
isometric drawing
isometric exercises
isometric line
isometric projection
isonicotinic acid hydrazide
isophthalic acid
isopiestic line
isoplastic graft
isoporic line
isopropyl alcohol
isopropyl ether
isopropyl group
isopropyl meprobamate
isopropyl radical
isosceles triangle
isothermal line
isothermal process
isothermal region
isothiocyanate group
isothiocyanate radical
isotope therapy
isotopic isobar
isoxyllic acid
issue a blank check
issue a caveat
issue a command
issue a manifesto
issue a position paper
issue a prohibitory injunction
issue a statement
issue a white paper
issue a writ
issue an injunction
issue an injunction against
issue an invitation
issue an ultimatum
issue forth
issue from
issue par
issue price
issue securities
issue stock
issued capital stock
issuing company
isthmus of the fauces
it beats me
it beats the Dutch
it being provided
it can be supposed
it cannot be helped
it does not matter
it does not signify
it follows that
it has me guessing
it is all the same
it is certain
it is fated
it is for a fact
it is necessary
it is of no consequence
it is of no importance
it is proven
it is said
it is that
it is written
it makes no difference
it matters not
it may be
it might be thought
it must be
it must follow
it must have its way
it must needs be
it needs must be
it stands to reason
it will all come out in the wash
it will be
it would appear
it's God's will
it's Greek to me
it's all one to me
it's all the same to me
it's beyond me
it's in the cards
it's no go
it's too deep for me
ita-palm
itaconic acid
italian sonnet
italo-
itch for
itch for knowledge
itch louse
itch mite
itch to
itch tree
itching for
itching palm
itching to
itchwood tree
item by item
item of evidence
item on the agenda
item veto
itemized bill
iterated integral
its last legs
its way
itsy-bitsy
itsy-witsy
itty-bitty
iu-
ivied halls
ivory black
ivory bleacher
ivory board
ivory brown
ivory carver
ivory carving
ivory cutter
ivory engraver
ivory fluter
ivory gull
ivory hunter
ivory hunting
ivory nut
ivory palm
ivory paper
ivory plant
ivory plum
ivory polisher
ivory porcelain
ivory rounder
ivory slabber
ivory sorter
ivory thumper
ivory tickler
ivory tower
ivory tree
ivory yellow
ivory-backed
ivory-beaked
ivory-billed
ivory-billed woodpecker
ivory-black
ivory-bound
ivory-carving
ivory-faced
ivory-finished
ivory-hafted
ivory-handled
ivory-headed
ivory-hilted
ivory-studded
ivory-tinted
ivory-toned
ivory-tower
ivory-towered
ivory-towerish
ivory-towerishness
ivory-towerism
ivory-towerist
ivory-towerite
ivory-type
ivory-white
ivory-wristed
ivy League
ivy bush
ivy geranium
ivy green
ivy gum
ivy league
ivy tree
ivy vine
ivy-bush
ivy-green
j'y suis j'y reste
jaal goat
jaal-goat
jab at
jacaranda brown
jacitara palm
jack Mormon
jack afloat
jack arch
jack baker
jack bean
jack block
jack boot
jackass clover
copal
deer
copal
gunter
tare
kingfisher
guinea
rig
tari
rigged
rigs
in peacock's feathers
crown
pit
knife
clam
fishes
lawyer
politician
bush
trades
day
นาย
ladder
membrane
staff
bean
lily
jade
plant
green
-green
-stone
bolt
spear
spike
-toothed
spring
palm
iron
man
alai
delivery
fever
bird
delivery
fever
leg
work
jaws of death
jay bird
jay blue
jay teal
jay-bird
jay-hawker
jay-gee
jazz band
jazz festival
jazz musician
jazz singer
jazz stick
jazz up
jazzed up
je ne sais quoi
je vous en prie
je vous remercie beaucoup
je-te
jealous-hood
jealous-pated
jealousy-proof
jecoric acid
jedding ax
jeep carrier
jeepers creepers
jeer at
jeer capstan
jefferson davis's birthday
jefferson day
jeffrey pine
jehovah's witnesses
jejun-
jejuno-colostomy
jejuno-ileostomy
jejuno-jejunostomy
jekyll and hyde
jell-o
jellied gasoline
jelly baby
jelly bag
jelly bean
jelly boiler
jelly doughnut
jelly egg
jelly lichen
jelly nut
jelly plant
jelly poke
jet d'eau
jet engine
jet engineer
jet engineering
jet exhaust
jet fighter
jet flight
jet fuel
jet injection
jet interrupter
jet jockey
jet lag
jet motor
jet pilot
jet pipe
jet plane
jet pod
jet power
jet propeller
jet propulsion
jet pump
jet rock
jet set
jet setter
jet stream
jet tanker
jet thrust
jet transport
jet wash
jet-assisted takeoff
jet-black
jet-enamelled ware
jet-pile
jet-propelled
jet-propulsion
jet-set
jet-setter
jeu d'esprit
jeu de mots
jeu de theatre
jeune fille
jeune premier
jeune premiere
jeunes filles
jeunes premiers
jeunesse dor
jeunesse doree
jeux d'esprit
jib-door
jib-headed
jib-header
jib-o-jib
jibber jib
jibber the kibber
jibe all standing
jibe at
jig borer
jig brow
jig bushing
jig button
jig indicator
jig saw
jig-back
jig-drill
jig-file
jig-jig
jig-jog
jig-joggy
jig-saw
jigger boom
jigger flea
jigger mast
jigger pump
jigger saw
jigger weed
jiggery-pokery
jigog ring
jigsaw puzzle
jill-flirt
jim crow
jim crowism
jim dash
jim-crow
jim-dandy
jim-dandy peach
jim-jam
jimson weed
jimson-weed
jin ricksha
jingle bell
jingle shell
jingle stick
jingle-jangle
jingling John
jingling Johnny
jinny road
jitney driver
jiu-jitsu
jive talk
jnana-marga
jo-darter
job action
job analysis
job card
job case
job classification
job costing
job description
job font
job lot
job of work
job order
job press
job printer
job printing
job ticket
job type
job watch
job work
job's comforter
job's tears
job-order costing
jobbing printer
jock strap
jockey backstay
jockey bar
jockey boot
jockey box
jockey cap
jockey club
jockey coat
jockey gear
jockey pulley
jockey saddle
jockey weight
jockey wheel
jodhpur boot
jodhpur boots
jodhpur shoe
joe rocker
joe-pye weed
joey glass
jog along
jog on
jog the memory
jog trot
jog-jog
jog-trot
joggle beam
joggle piece
joggle plating
joggle post
joggling plank
john barleycorn
john bull
john doe
john dory
john hancock
john henry
john-a-nokes
john-a-stiles
john-apple
johnny cake
johnny house
johnny reb
johnny-cake
johnny-jump-up
johnny-on-the-spot
johnson grass
joie de vivre
join Maths
join battle
join battle with
join forces
join fortunes with
join hands
join hands with
join in
join in a conversation
join in fellowship
join in holy wedlock
join in marriage
join in the chorus
join issue
join issue upon
join the angels
join the choir invisible
join the great majority
join the majority
join the opposition
join the parade
join together
join up
join up with
join with
join your ancestors
join your fortunes with
join yourself to
join yourself with
join-
joiner bulkhead
joiner door
joiner hardware
joiner work
joining of forces
joining-hand
joint account
joint and last survivor annuity
joint bar
joint bond
joint box
joint chair
joint chairmanship
joint clay
joint committee
joint control
joint density function
joint discussion
joint effort
joint filler
joint fir
joint gap
joint grass
joint heir
joint hinge
joint ill
joint life annuity
joint life insurance
joint making
joint operation
joint operations
joint ownership
joint pin
joint rate
joint resolution
joint return
joint runner
joint rust
joint sensation
joint sense
jugal furrow
jugal point
jugged hare
juggler's trick
jugular vein
juice extractor
juice pear
juice up
juicy morsel
jujitsu expert
jujube plum
juke house
juke joint
julian calendar
jumbee bean
jumble sale
jumble together
jumbo jet
jump Computer technol
jump a claim
jump a mile
jump aboard
jump about
jump all over
jump all over someone
jump area
jump at
jump at the bidding of
jump bail
jump ball
jump bid
jump dial
jump discontinuity
jump down your throat
jump frog
jump head
jump in
jump into
jump jet
jump joint
jump leads
jump line
jump off
jump on
jump on the bandwagon
jump out
jump out of your skin
jump over
junk collector
junk dealer
junk food
junk heap
junk jewelry
junk mail
junk peddler
junk ring
junk room
junk shop
junk yard
junk-bottle
jupiter's beard
jure divino
jure humano
juridical days
juristic act
juristic person
jury box
jury chancellor
jury fixing
jury list
jury mast
jury of inquest
jury of matrons
jury of the vicinage
jury of women
jury of your peers
jury panel
jury process
jury room
jury selection
jury skid
jury trial
jury wheel
jury-
jury-fixer
jury-mast
jury-packaging
jury-rig
jury-rigged
jury-rigged expedient
jury-rigging
jury-shy
jury-squaring
jus canonicum
jus civile
jus commune
just the reverse
just the same
just then
just this once
just to be doing
just under the wire
just what the doctor ordered
juste-milieu
juste-milieux
justice box
justice court
justice in eyre
justice of assize
justice of the peace
justice seat
justice's warrant
justice-dealing
justice-loving
justice-proof
justice-slighting
justices in eyre
justifiable abortion
justifiable expectation
justifiable homicide
justification by faith
justification by works
justification space
justify hope
justify one in supposing
justifying space
justitia omnibus
jut out
jut over
jute board
jute butts
jute crusher
jute opener
jute tier
juvenal plumage
juvenile book
juvenile court
juvenile delinquency
juvenile delinquent
juvenile dictionary
juvenile editor
juvenile hormone
juvenile lead
juvenile officer
juxta-ampullar
juxta-articular
juxtapose in opposition
k ration
k'ai shu
k-meson
kA
kCi
kG
kHz
kJ
kMc
kOe
kV
kVA
kVAH
kVAR
kW
kWh
ka-
kaawi yam
kabuto gane
kachang puteh
kachina doll
kad-
kaffee klatsch
kaffir beer
kaffir corn
kafir corn
kai-kai
kailyard school
kainic acid
kairotic moment
kairotic time
kaiser brown
kaiser roll
kaju apple
kako-
kala azar
kala-azar
kalamein work
kale brose
kale gully
kale runt
kale worm
kale-
kaleyard school
kamashimo zashi
kambing utan
kamehameha day
kamic body
kamoot tree
kana-majiri
kanal rays
kangaroo acacia
kangaroo apple
kangaroo bear
kangaroo beetle
kangaroo closure
kangaroo cloture
kangaroo court
kangaroo feathers
kangaroo grass
kangaroo hare
kangaroo jerboa
kangaroo mouse
kangaroo paw
kangaroo rat
kangaroo thorn
kangaroo vine
kangaroo-rat
kans grass
kanya butter
kanya tree
kapok oil
kapok tree
kappa meson
karate expert
karma-marga
karri-tree
karroo bush
kary-
karyo-
kashgar tamarisk
kashmir goat
kat-
kata-
katabatic wind
katsura tree
kauri copal
kauri gum
kauri pine
kauri resin
kava gum
kaw-
kayo punch
keV
kedani fever
kedani mite
kedge anchor
kedge off
kedge-anchor
keekwilee-house
keel and keelson
keel arch
keel hatten
keel line
keel over
keel petal
keel rail
keel rope
keel up
keel vessel
keel-boat
keel-bully
keeled snake
keelson rider
keen about
keen desire
keen eye
keen interest
keen on
keen pleasure
keen satisfaction
keen sight
keen-biting
keen-eared
keen-edged
keen-eyed
keen-nosed
keen-o
keen-o-peachy
keen-scented
keen-sighted
keen-witted
keen-wittedness
keena nuts
keep a check of
keep a check on
keep a civil tongue in your head
keep a course
keep a firm hand on
keep a firm hold upon
keep a good leeway
keep a good lookout
keep a good lookout for
keep a good margin
keep a good offing
keep a happy medium
keep a light in the window
keep a middle course
keep a nose to the wind
keep a sharp eye on
keep a sharp eye upon
keep a sharp lookout
keep a sharp lookout for
keep a stiff upper lip
keep a straight face
keep a tight hand on
keep a tight hand upon
keep a tight rein on
keep a watch
keep a weather eye open
keep abreast of the times
keep account of
keep accounts
keep afloat
keep alert
keep alive
keep alive in your thoughts
keep aloof
keep aloof from
keep an account with
keep an ace up your sleeve
keep an ear to the ground
keep an eye on
keep an eye out for
keep an eye upon
keep an idea
keep an open house
keep an open mind
keep apart
keep as a nest egg
keep aside
keep at
keep at a distance
keep at a respectful distance
keep at arm's length
keep at bay
keep at it
keep at your beck and call
keep awake
keep away
keep away from
keep bachelor quarters
keep back
keep banker's hours
keep between us
keep body and soul together
keep books
keep both feet on the ground
keep busy
keep buttoned up
keep by one
keep calm
keep clear of
keep close
keep close to
keep coming
keep company
keep company with
keep cool
keep count of
keep dark
keep doggedly at
keep down
keep driving
keep everyone waiting
keep faith
keep faith with
keep fit
keep fresh
keep from
keep from harm
keep from laughing
keep from spreading
keep going
keep guard
keep hands off
keep her so
keep her steady
keep hidden
keep hold of
keep hold of the land
keep hope alive
keep hoping
keep house
keep in
keep in bounds
keep in check
keep in contact with
keep in countenance
keep in custody
keep in detention
keep in formation
keep in hand
keep in ignorance
keep in line
keep in memory
keep in mind
keep in order
keep in practice
keep in reserve
keep in sight
keep in step
keep in store
keep in suspense
keep in the background
keep in the dark
keep in the middle of the road
keep in the right path
keep in touch
keep in touch with
keep in view
keep in with
keep informed
keep intact
keep inviolate
keep it a deep
keep it under your hat
keep kosher
keep late hours
keep moving
keep mum
keep off
keep off and on
keep on
keep on good terms
keep on hand
keep on the go
keep on the safe side
keep open house
keep out
keep out of harm’s way
keep out of mischief
keep out of sight
keep out of the way
keep out of the way of
keep pace with
keep pointed
keep posted
keep quiet
keep remote from
keep safe
keep score
keep secret
keep shady
keep silence
keep silent
keep snug
keep something for a rainy day
keep station
keep step
keep step with
keep still
keep subject
keep tab
keep tab on
keep tabs
keep tabs on
keep tally
keep the ball rolling
keep the change
keep the course
keep the door open
keep the ears on the ground
keep the ears to the ground
keep the even tenor of your way
keep the eyes upon
keep the faith
keep the field
keep the golden mean
keep the heading
keep the lid on
keep the memory alive
keep the peace
keep the pot boiling
keep the wolf from the door
keep the wound open
keep time
keep to
keep to the middle
keep to the middle path
keep to the middle way
keep to yourself
keep together
keep track of
keep troth
keep trying
keep under
keep under control
keep under cover
keep under lock and key
keep under observation
keep under wraps
keep under your thumb
keep up
keep up a correspondence
keep up a fast pace
keep up a killing pace
keep up appearances
keep up on
keep up the good work
keep up the memory of
keep up to date
keep up to standard
keep up with
keep up with the Joneses
keep up your courage
keep uppermost in your thought
keep vigil
keep watch
keep watch and ward
keep watch over
keep within
keep within bounds
keep within compass
keep within limits
keep within these walls
keep within your budget
keep within your means
keep you guessing
keep you on edge
keep you on pins and needles
keep you on tenterhooks
keep you posted
keep your chin up
keep your cool
keep your course
keep your distance
keep your ear to the ground
keep your ears open
keep your esthetic distance
keep your eye on the ball
keep your eye peeled
keep your eyes on the stars
keep your eyes open
keep your eyes peeled
keep your eyes skinned
keep your fingers crossed
keep your footing
keep your freedom
keep your hand in
keep your head
keep your head above water
keep your mouth shut
keep your nose out of this
keep your nose to the grindstone
keep your own counsel
keep your pecker up
keep your place
keep your powder dry
keep your promise
keep your shirt on
keep your spirits up
keep your sword in its sheath
keep your temper
keep your trap shut
keep your weather eye open
keep your word
keep your yap shut
keep yourself to yourself
keep yourself under control
keeper hook
keeper ring
keeping apart
keeping flocks and herds
keeping in
keeping in mind
keeping room
keeping secret
keeping-room
keg fig
keg spring
kei-apple
kekuna oil
kelp ash
kelp crab
kelp goose
kelp greenling
kelp gull
kelp hen
kelp pigeon
kelp plover
kelp raft
kemiri nut
kemp-haired
kendal green
kennel club
kennelly-heaviside layer
kenny method
keno goose
kent cap
kente cloth
kentucky coffee tree
kephalo-
kept down
kept in
kept in remembrance
kept in reserve
kept mistress
kept under
kept woman
kera-
kerat kamel
kerat-
kerato-
kerb drill
kerb market
kerb weight
kerb-stone
kerbstone market
kermes mineral
kermes oak
kern counter
kernel sentence
kernel smut
kernel spot
kerosene heater
kerosene stove
kerry blue terrier
kestner plant
ket-
ketch-rigged
keto form
keto-
keto-enol isomerism
keto-enol tautomerism
ketone alcohol
ketone body
kick downstairs
kick in
kick in the teeth
kick off
kick off an attack
kick out
kick over
kick over the traces
kick plait
kick plate
kick pleat
kick start
kick starter
kick the air
kick the beam
kick the bucket
kick the clouds
kick the habit
kick the wind
kick turn
kick up
kick up a dust
kick up a hullabaloo
kick up a racket
kick up a row
kick up a shindy
kick up dust
kick up your heels
kick upstairs
kick wheel
kick you in the teeth
kick your habit
kick your heels
kick yourself
kick-about
kick-off
kick-sled
kick-start
kick-up
kickie-wickie
kicking coil
kicking downstairs
kicking out
kicking strap
kicking tackle
kicking upstairs
kicking-colt
kicking-horses
kicksey-winsey
kicksie-wicksie
kicksy-wicksy
kid along
kid around
kid brother
kid glove
kid gloves
kid out of
kid point
kid sister
kid stuff
kid yourself
kid-glove
kid-glove orange
kid-glove politics
kid-gloved
kid-skin
kiddie car
kidding around
kiddy car
kidney basin
kidney bean
kidney beans
kidney corpuscle
kidney cotton
kidney disease
kidney liverleaf
kidney machine
kidney oil
kidney ore
kidney pie
kidney stone
kidney transplant
kidney vetch
kidney worm
kidney-bean tree
kidney-leaved
kidney-shaped
kids' stuff
kikuyu grass
kill by inches
kill en masse
kill off
kill the fatted calf
kill the slain
kill time
kill two birds with one stone
kimono sleeve
kind Nature's signal of retreat
kind deed
kind of
kind offices
kind regards
kind remembrances
kind words and comfortable
kind-hearted
kind-mannered
kindest regards
kindle down
kindling wood
kindly act
kindly disposition
kindly-disposed
kindred soul
kindred spirit
kinds of
kinematic pair
kinematic viscosity
kinesi-
kinesthetic memory
kinetic art
kinetic energy
kinetic potential
kinetic theory
kinetic theory of gases
kinetic theory of heat
kinetic theory of matter
kineto-
king at arms
king auk
king ball
king bee
king bridge
king card
king carp
king closer
king closure
king clover
king cobra
king conch
king crab
king crow
king devil
king eagle
king eider
king fern
king james version
king leg
king lory
king mackerel
king monkey
king mullet
king nut
king of arms
king of beasts
king of the castle
king of the forest
king of the herrings
king of the hill
king of the mountain
king ortolan
king parakeet
king penguin
king plank
king plant
king post
king prawn
king quail
king rail
king rod
king row
king salmon
king size
king snake
king sora
king spoke
king tody
king truss
king vulture
king's English
king's bench
king's birthday
king's blue
king's colour
king's colours
king's counsel
king's english
king's evidence
king's evil
king's highway
king's man
king's pattern
king's peace
king's purple
king's ransom
king's scout
king's shilling
king's weather
king's yellow
king's-pawn openings
king-bird
king-bolt
king-crab
king-craft
king-cup
king-emperor
king-fish
king-hit
king-killer
king-maker
king-of-arms
king-of-the-herrings
king-of-the-salmon
king-piece
king-pin
king-post
king-post truss
king-ridden
king-size
king-size bed
king-sized
king-whiting
king-whitings
kingdom come
kingdom of God
kingdom of ends
kingdom of glory
kingdom of heaven
kingfisher daisy
kings-of-arms
kink in one's horn
kino gum
kinship group
kip down
kip-ft
kipper-nut
kippered herring
kippered salmon
kirby hook
kirk master
kirk session
kirk skail
kirk-shot
kim baby
kim cut
kislar aga
kiss and make up
kiss cheeks
kiss curl
kiss good-bye
kiss hands
kiss of death
kiss of life
kiss of peace
kiss off
kiss one's feet
kiss the book
kiss the hem of your garment
kiss the rod
kiss your ass
kiss your feet
kiss-me
kiss-me-quick
kiss-off
kissing and making up
kissing bug
kissing cousin
kissing crust
kissing dance
kissing disease
kissing gate
kissing gourami
kissing kin
kissing strings
kit and boodle
kit and caboodle
kit bag
kit fiddle
kit fox
kit out
kit violin
kit-cat
kit-fox
kitchen bob
kitchen boiler
kitchen cabinet
kitchen fee
kitchen garden
kitchen gardener
kitchen ground
kitchen kaffir
kitchen match
kitchen midden
kitchen police
kitchen range
kitchen rose
kitchen saw
kitchen servant
kitchen sink
kitchen space
kitchen stuff
kitchen table
kitchen tea
kitchen work
kitchen-midden
kite balloon
kite bar
kite eagle
kite falcon
kite fighting
kite sausage
kite track
kite winder
kite-tailed
kite-wind
kited check
kith and kin
kitten moth
kitten-breeches
kittly-benders
kitty needy
kitty witch
kitty wren
kitty-cat
kitty-corner
kitty-cornered
kl-
kleig light
klept-
klieg eyes
klieg light
klook-klook
kn-
knap-bottle
knapsack sprayer
knav-child
kneaded butter
kneading-trough
knee action
knee bend
knee bone
knee brace
knee breeches
knee colter
knee cop
knee drill
knee drop
knee grass
knee guard
knee halter
knee holly
knee holm
knee jerk
knee joint
knee pants
knee pine
knee plate
knee puff
knee punch
knee rafter
knee roof
knee socks
knee strap
knee swell
knee timber
knee tool
knee viol
knee-bent
knee-bowed
knee-braced
knee-breeched
knee-cap
knee-crooking
knee-deep
knee-high
knee-high to a grasshopper
knee-hole
knee-joint
knee-jointed
knee-length
knee-pan
knee-shaking
knee-shaped
knee-sprung
knee-tied
knight commander
knight cross
knight errant
knight errantry
knight grand commander
knight grand cross
knight marshal
knight of columbus
knight of the pen
knight of the plume
knight of the post
knight of the quill
knight of the road
knight service
knight templar
knight's fee
knight's-spur
knight-adventurer
knight-errant
knight-errantries
knight-errantry
knight-errantship
knight-head
knight-service
knighthood-errant
knightly skill
knights adventurers
knights bachelors
knights bannerets
knights baronets
knights commanders
knights grand commanders
knights grand cross
knights marshals
knights-errant
knit goods
knit the brow
knitting case
knitting machine
knitting needle
knitting pin
knitting sheath
knitting stick
knitting wire
knob celery
knob latch
knob lock
knob-billed
knob-nosed
knobbling fire
knobbling roll
knobcone pine
knock about
knock against
knock around
knock back
knock cold
knock dead
knock down
knock for a loop
knock galley-west
knock in
knock in the head
knock into a cocked hat
knock into your head
knock it off
knock off
knock on the head
knock on wood
knock out
knock out of the box
knock over
knock rummy
knock senseless
knock stiff
knock the bottom out of
knock the chip off your shoulder
knock the chocks
knock the chocks out from under
knock the props out from under
knock together
knock unconscious
knock under
knock up
knock you off your perch
knock your brains out
knock your eyes out
knock your head against
knock yourself out
knock-
knock-about
knock-down
knock-down-and-drag
knock-down-and-drag-out
knock-down-and-drag-out fight
knock-down-and-drag-out quarrel
knock-down-drag-out
knock-knee
knock-kneed
knock-knees
knock-me-down
knock-on
knock-out
knockdown argument
knocked flat
knocked out
knocked silly
knocked up
knocked-down
knocker-off
knocker-up
knocking-shop
knockout blow
knockout drop
knockout drops
knol-khol
knop yarn
knot bindweed
knot clipper
knot gall
knot garden
knot porter
knot stitch
knot tier
knot-grass
knot-jointed
knot-jointed rice grass
knot-portering
knotgrass spurge
knotroot grass
knotted score
knotter bill
knotter hook
knotting bill
knotty pine
knotty point
knotty question
knotty rhatany
knotty-leaved
knotty-pated
knotweed spurge
know a hawk from a handsaw
know a little
know a thing or two
know a trick worth two of that
know again
know all the answers
know all the ins and outs
know all the moves of the game
know all the tricks
know all the tricks of the trade
know backwards
know backwards and forwards
know beforehand
know by heart
know by rote
know by sight
know damn well
know darn well
know down to the ground
know for certain
know from A to Z
know from alpha to omega
know from nothing
know from the ground up
know full well
know inside out
know instinctively
know it all
know it-all
know like a book
know like the back of your hand
know no bounds
know no end
know no wrong
know not
know not what
know nothing
know nothing of
know the
know the ropes
know the score
know the ways of the world
know well
know what it’s all about
know what’s what
know when you have had enough
know which is which
know your ass from your elbow
know your onions
know your own mind
know your stuff
know your way about
cnow-all
cnow-how
cnow-it-all
cnow-little
cnow-nothing
cnow-nothingism
cnow-nothingness
cknowledge of the world
cknowledge without reason
cknowledge without thought
cknowledge-gap
cnown as
cnown by every schoolboy
cnown by measurement
cnown by the name of
cnown quantity
cnuckle ball
cnuckle bow
cnuckle down
cnuckle down to
cnuckle gear
cnuckle gearing
cnuckle guard
cnuckle joint
cnuckle line
cnuckle molding
cnuckle pin
cnuckle post
cnuckle timber
cnuckle tip
cnuckle to
cnuckle tooth
cnuckle under
cnuckle under to
cnuckle-bone
cnuckle-deep
cnuckle-duster
cnuckle-dusters
cnuckle-joint
cnuckle-joint press
cnuckle-kneed
cnurl toe
cko-katana
ckoa finch
ckoda millet
ckoh-i-noor
cko-kopal
labor in darkness
labor in vain
labor in your vocation
labor interests
labor lost
labor market
labor movement
labor of Sisyphus
labor of love
labor omnia vincit
labor organizer
labor pains
labor relations
labor room
labor spy
labor strike
labor the obvious
labor turnover
labor under
labor under a disadvantage
labor under a false impression
labor under difficulties
labor union
labor unionist
labor value theory
labor-saving
labor-saving device
laborare est orare
laboratory animal
laboratory apparatus
laboratory assistant
laboratory camera
laboratory chemist
laboratory course
laboratory diagnosis
laboratory equipment
laboratory experiment
laboratory method
laboratory microscope
laboratory school
laboratory table
laboratory technician
laboratory technique
laboratory test
laboratory work
laboratory worker
labored breathing
laboring man
laboring oar
labors of Hercules
labour camp
labour exchange
labour-saving
labrador retriever
labyrinth fish
labyrinth packing
lac dye
lac insect
lac lake
lac resin
lac resins
lac sulphuris
lac sumac
lac tree
lac virginis
lac wax
lace bug
lace coral
lace curtain
lace edging
lace fern
lace finisher
lace fly
lace glass
lace grass
lace into
lace lizard
lace maker
lace paper
lace piece
lace pigeon
lace pillow
lace plant
lace shoes
lace stitch
lace tree
lace trimming
lace up
lace vine
lace-bordered
lace-covered
lace-curtain
lace-curtained
lace-edged
lace-fern
lace-finishing
lace-fronted
lace-leaf
lace-leaves
lace-piece
lace-trimmed
lace-vine
lace-winged
lacerate the ear
lacerate the heart
lacertus fibrosus
lacewing fly
lachryma Christi
lachryma christi
lachrymal bone
lachrymatory gas
lacing course
lack force
lack in
lack of affect
lack of agreement
lack of appetite
lack of bite
lack of charisma
lack of charm
lack of claim
lack of color
lack of concord
lack of contact
lack of depth
lack of eagerness
lack of enthusiasm
lack of feeling
lack of feeling tone
lack of feelings
lack of finish
lack of food
lack of force
lack of foresight
lack of forethought
lack of hindrance
lack of incisiveness
lack of influence
lack of information
lack of integrity
lack of interest
lack of magnetism
lack of meaning
lack of message
lack of parallelism
lack of personality
lack of pleasure
lack of polish
lack of power
lack of preparation
lack of refinement
lack of respect
lack of self-confidence
lack of self-reliance
lack of sentimentality
lack of sheen
lack of sparkle
lack of title
lack of touch
lack of vision
lack of weight
lack of zeal
lack regularity
lack-all
lack-beard
lack-brain
lack-fettle
lack-latin
lack-learning
lack-linen
lack-love
lack-lustre
lack-pity
lacquer red
lacquer tree
lacquer ware
lacrim-
lacrimial bone
lacrimial duct
lacrimial gland
lacrimial sac
lacrosse stick
lact-
lactate dehydrogenase
lacteal gland
lactic acid
lacto-
lactogenic hormone
lactose intolerance
lacunar amnesia
lacustrine dweller
lacustrine dwelling
lacustrine inhabitant
lad's love
ladder back
ladder beetle
ladder braid
ladder chain
ladder company
ladder jack
ladder pipe
ladder road
ladder shell
ladder stitch
ladder tournament
ladder track
ladder truck
ladder-back
ladder-back chair
ladder-backed
laden with doom
laden with significance
laden with sorrow
ladies' fingers
ladies' gallery
ladies' man
ladies' room
ladies' wear
ladies'-tobacco
ladies'-tobaccoes
ladies'-tobaccos
ladies'-wear shop
ladies-in-waiting
ladies-of-the-night
ladies-tresses
ladle board
ladle out
lady apple
lady beetle
lady bountiful
lady bracken
lady brake
lady chair
lady chapel
lady court
lady crab
lady cracker
lady day
lady fair
lady fern
lady friend
lady grass
lady hair grass
lady killer
lady love
lady mayoress
lady of pleasure
lady of the bedchamber
lady of the evening
lady of the house
lady pea
lady superior
lady whin
lady woman
lady wrack
lady's bedstraw
lady's cushion
lady's finger
lady's glove
lady's laces
lady's maid
lady's man
lady's mantle
lady's slipper
lady's thumb
lady's traces
lady's-eardrop
lady's-mantle
lady's-slipper
lady's-smock
lady's-thistle
lady's-thumb
lady's-tresses
lady-bird
lady-cow
lady-fish
lady-help
lady-in-waiting
lady-killer
lady-killing
lady-love
lady-of-the-night
lady-slipper
lady-smock
ladybird beetle
laetare sunday
laevo-
lag b’omer
lake minnow
lake of fire and brimstone
lake perch
lake perches
lake pitch
lake plover
lake salmon
lake shad
lake sheepshead
lake shore
lake sturgeon
lake trout
lake water cress
lake whitefish
lake-bound
lake-colored
lake-girt
lake-land
lake-moated
lake-reflected
lake-resounding
lake-surrounded
lakeland terrier
lamb down
lamb lily
lamb mint
lamb pie
lamb plant
lamb tail
lamb's ears
lamb's lettuce
lamb's tails
lamb's tongue
lamb's wool
lamb's-quarters
lamb's-wool
lamb-like
lambda particle
lambdoidal suture
lambent flame
lame and impotent conclusion
lame brains
lame duck
lame excuse
lame verses
lame-born
lame-brain
lame-footed
lame-horsed
lame-legged
lamell-
lamella roof
lamellar vector
lamelli-
lament for
lamin-
laminar flow
laminar-flow system
laminar-flow-control plane
laminated glass
laminated safety glass
laminated wood
lamini-
lamp bearer
lamp cage
lamp chimney
lamp fitter
lamp holder
lamp house
lamp jack
lamp maker
lamp oil
lamp oiler
lamp shade
lamp shell
lamp socket
lamp standart
lamp trimmer
lamp-bearing
lamp-bedecked
lamp-black
lamp-blown
lamp-decked
lamp-foot
lamp-heated
lamp-hour
lamp-iron
lamp-lined
lamp-oil
lamp-post
lamp-warmed
lamper eel
lamper-eel
lamprey eel
lampro-
lana dye
lance bucket
lance corporal
lance head
lance of courtesy
lance rest
lance sergeant
lance snake
lance tooth
lance-acuminated
lance-breaking
lance-fashion
lance-headed snake
lance-jack
lance-knight
lance-leaved
lance-linear
lance-oblinc
lance-oval
lance-ovate
lance-pierced
lance-shaped
lance-worn
lancet arch
lancet architecture
lancet clock
lancet fish
lancet window
lancinating pain
land agency
land agent
land bank
land battleship
land board
land breeze
land bridge
land broker
land caltrop
land certificate
land chain
land cod
land crab
land crake
land cress
land crocodile
land drake
land dreadnought
land dredge
land end
land fast
land flowing with milk and honey
land force
land forces
land girl
land grant
land hunger
land lane
land law
land lead
land league
land leech
land line
land mail
land measure
land mile
land mine
land of Nod
land of Prester John
land of dreams
land of enchantment
land of faerie
land of heart's desire
land of milk and honey
land of plenty
land of promise
land of the gods
land office
land on
land on like a ton of bricks
land on your feet
land otter
land patent
land pike
land pirate
land pitch
land plaster
land power
land rail
land rat
land reform
land rock
land scale
land scrip
land scurvy
land seal
land service
land settlement
languish for
lank-bellied
lank-blown
lank-cheeked
lank-eared
lank-haired
lank-jawed
lank-lean
lank-sided
lank-winged
lantern bellows
lantern carrier
lantern clock
lantern fish
lantern flounder
lantern fly
lantern gear
lantern gurnard
lantern jack
lantern jaw
lantern jaws
lantern keg
lantern light
lantern lily
lantern pinion
lantern ring
lantern shell
lantern slide
lantern sprat
lantern tree
lantern wheel
lantern-jawed
lanthanide series
lanyard knot
lap box coupling
lap dissolve
lap dog
lap dovetail
lap dovetail joint
lap dovetailing
lap game
lap joint
lap link
lap microphone
lap of honour
lap of luxury
lap over
lap pack
lap plate
lap ring
lap riveting
lap robe
lap shaver
lap siding
lap table
lap up
lap weld
lap winding
lap-butted
lap-chart
lap-dog
lap-jointed
lap-lap
lap-love
lap-rivet
lap-streak
laparo-
laparo-uterotomy
laparotomy pack
lapel button
lapel microphone
lapel mike
lapel pin
lapidary bee
lapidary mill
lapis lazuli
lapis lazuli blue
lapis lazuli ware
lapp owl
lapped joint
lapped-butt joint
lappet caterpillar
lappet loom
lappet moth
lappet weaving
lappet wheel
lapse back
lapse from grace
lapse into
lapse into disorder
lapse of memory
lapse of time
lapse rate
lapsed from grace
lapsed nature
lapsed state
large-ankled
large-bayed
large-billed
large-bodied
large-boned
large-bore
large-bracted
large-browed
large-built
large-caliber
large-celled
large-crowned
large-diameter
large-drawn
large-eared
large-eyed
large-finned
large-flowered
large-footed
large-framed
large-fronded
large-fruiting
large-grained
large-grown
large-handled
large-handledness
large-headed
large-hearted
large-heartenedness
large-hipped
large-horned
large-leaved
large-leaved cucumber tree
large-lettered
large-limbed
large-looking
large-lunged
large-minded
large-mindedly
large-mindedness
large-molded
large-natured
large-necked
large-nostril
large-petaled
large-rayed
large-scale
large-scaled
large-size
large-sized
large-souled
large-spaced
large-stomached
large-tailed
large-thoughted
large-throated
large-toothed
large-trunked
large-type
large-utteranced
large-viewed
large-wheeled
large-wristed
largemouth bass
larger than life
lariat loop
larixinic acid
lark bunting
lark finch
lark plover
lark sparrow
lark-colored
lark-heel
lark-heeled
larspur violet
larum-bell
larval epilepsy
larval plague
larvi-
laryng-
laryngeal epilepsy
laryngis stridulus
laryngo-
laser photography
laser surgery
lash and carry
lash and tie
lash back
lash comb
lash into
lash into a frenzy
lash into a fury
lash into fury
lash line
lash out
lash out at
lash rail
lash the waves
lash up
lash-up
lasso cell
lasso harness
last act
last agony
last breath
last dab
last days
last debt
last ditch
last duty
last expedient
last extremity
last forever
last gasp
last home
last honors
last inning
last lap
last lick
last long
last maker
last making
last marin
last mile
last minute
last muster
last name
last off the mark
last offices
last out
last post
last quarter
last resort
last resource
last rest
last rites
last round
last roundup
last service
last shift
last sleep
last stage
last stop
last straw
last stroke
last supper
last survivor annuity
last thing
last things
last touch
last trumpet
last will and testament
last word
last word, the
last words
last-born
last-cited
last-cyclic
last-ditch
last-ditch fight
last-ditcher
last-erected
last-in
last-in first-out
last-made
last-mentioned
last-minute
last-minute lie
last-named
lastage-free
lasting fame
lasting friendship
latch bolt
latch circuit
latch locking
latch needle
latch on
latch onto
latch-key
latch-string
latchkey child
late arrival
late blight
late bloomer
late developer
late greek
late hour
late in the day
late lamented
late latin
late off the mark
late riser
late wood
late-begun
late-betrayed
late-blooming
late-born
late-built
late-coinéd
late-come
late-comer
late-cruising
late-disturbed
late-embarked
late-filled
late-flowering
late-found
late-imprisoned
late-kissed
late-lamented
late-lingering
late-lost
late-met
late-model
late-protracted
late-ripening
late-sacked
late-taken
late-transformed
late-type star
late-wake
late-won
lateen sail
lateen-rigged
latency period
latent content
latent epilepsy
latent heat
latent image
latent learning
latent meaning
latent meaningfulness
latent period
latent strabismus
latent syphilis
latent violence
later than
later time
latera recta
lateral axis
lateral canal
lateral chain
lateral circuit
lateral drift
lateral fissure
lateral line
lateral line system
lateral lisp
lateral magnification
lateral meristem
lateral moraine
lateral pass
lateral plane
lateral resistance
lateral stability
lateral system
lateral tangent arc
lateral thinking
lateri-
latero-
latest fad
latest fashion
latest thing
latest thing, the
latest wrinkle
latest-born
latex paint
latex paper
lath and plaster
lath brick
lath cutter
lath maker
lath making
lath nail
lath nailer
lath puncher
lath splitter
lath tier
lath trimmer
lath-backed
lath-legged
lathe chuck
lathe-bore
lather up
lathered up
lathering up
lathing hammer
lathing hatchet
lati-
latin cross
latin quarter
latin square
latissimi dorsi
latissimus dorsi
latitude and longitude
latitude sailing
latrine lawyer
latrine rumor
latter end
latter-day
latter-day saint
lattice bar
lattice beam
lattice bridge
lattice girder
lattice moss
lattice plant
lattice stitch
lattice strut
lattice truss
lattice-leaf
lattice-leaves
lattice-plant family
lattice-window
lattice-work
latus rectum
lau lau
laudator temporis acti
laugh at
laugh away
laugh down
laugh fit to burst
laugh fit to bust
laugh in
laugh in your beard
laugh in your face
laugh in your sleeve
laugh it up
laugh off
laugh on the other
laugh out of court
laugh outright
laugh to scorn
laugh up
laugh up your sleeve
laugh yourself limp
laugh yourself sick
laugh yourself silly
laughing academy
laughing gas
laughing gull
laughing hyena
laughing jackass
laughing muscle
laughing stock
laughing-stock
laughter holding both his sides
laughter-dimpled
laughter-lighted
laughter-lit
laughter-loving
laughter-provoking
laughter-stirring
launch a holy war on
launch a vendetta
launch an attack
launch forth
launch into
launch into eternity
launch out against
launch pad
launch upon
launch vehicle
launch window
launch-ways
launched into eternity
launching base
launching gear
launching mortar
launching pad
launching platform
launching rack
launching ramp
launching shoe
launching tower
launching tube
launching vehicle
launching way
launching ways
laundry cart
laundry room
laundry soap
laurel bay
laurel butter
laurel camphor
laurel cherry
laurel family
laurel green
laurel hawthorn
laurel oak
laurel oil
laurel pink
laurel sumac
laurel thyme
laurel-bearing
laurel-browed
laurel-crowned
laurel-decked
laurel-leaf
laurel-leaf oil
laurel-leaved
laurel-locked
laurel-worthy
laurel-wreathed
lauric acid
lauric aldehyde
lauroyl group
lauroyl radical
lauryl alcohol
lauryl aldehyde
laus Deo
lauter tub
lava cone
lava-capped
lava-lava
lava-lit
lava-paved
lavaliere microphone
lavatory pan
lavatory paper
lave net
lavender blue
lavender cotton
lavender grass
lavender oil
lavender water
lavender-blue
lavender-flowered
lavender-scented
lavender-tinted
lavender-water
laver bread
lavish care on
lavish feast
lavish upon
lavish with
lavish yourself on
law French
law agent
law and order
law binding
law buckram
law centre
law code
law court
law enforcement agency
law enforcement agent
law hand
law member
law member of a court-martial
law merchant
law of Dulong and Petit
law of Malus
law of action and reaction
law of additiv
law of additive pressures
law of averages
law of conservation of charge
law of conservation of energy
law of conservation of mass
law of contradiction
law of cosines
law of definite composition
law of definite proportions
law of equivalent retaliation
law of excluded middle
law of exponents
law of general application
law of gravitation
law of identity
law of large numbers
law of mass action
law of moses
law of motion
law of multiple proportion
law of multiple proportions
law of nations
law of nature
law of parity
law of parsimony
law of partial pressures
law of reflection
law of refraction
law of retaliation
law of sines
law of succession
law of the domicile
law of the forum
law of the jungle
law of the land
law of the mean
law of the place
law of thermodynamics
law of thought
law of trichotomy
law of universal gravitation
law office
law officer
law sakes
law school
law stationer
law term
law, the
law-abiding
law-abidingness
law-beaten
law-book
law-borrow
law-breaker
law-bred
law-condemned
law-day
law-fettered
law-hand
law-honest
law-learned
law-learnedness
law-loving
law-magnifying
law-maker
law-merchant
law-reckoning
law-revering
law-ridden
law-stationer
law-worthy
lawful authority
lawful possession
lawless person
lawn billiards
lawn bowling
lawn cart
lawn chair
lawn grass
lawn green
lawn meet
lawn mower
lawn party
lawn pennywort
lawn sleeves
lawn tennis
lawn-roller
lawn-sleeved
lawn-tennis
lawn-tractor
lawyer bush
lawyer cane
lawyer palm
lawyer reference
lawyer vine
lax stewardship
lax-flowered
lay a course
lay a course for
lay a duty on
lay a false scent
lay a fart
lay a hand on
lay a heavy hand on
lay a plot
lay a trap for
lay a wager
lay a wet blanket on
lay abbot
lay aboard
lay about
lay about one
lay aloft
lay an egg
lay an embargo on
lay analyst
lay anchor
lay aside
lay at
lay at the door of
lay at your door
lay at your feet
lay away
lay away from
lay baptism
lay bare
lay before
lay before the public
lay blame upon
lay board
lay boat
lay brother
lay by
lay by the heels
lay chalice
lay charges
lay claim to
lay clerk
lay close
lay day
lay days
lay down
lay down a plan
lay down the law
lay down your arms
lay down your tools
lay eggs
lay elder
lay emphasis upon
lay eyes on
lay fee
lay figure
lay flat
lay for
lay forward etc
lay ghosts
lay hands on
lay heads together
lay hold of
lay in
lay in a stock
lay in a store
lay in a supply
lay in provisions
lay in ruins
lay in store
lay in the earth
lay in the grave
lay in the lap of the gods
lay in the scales
lay intermediary
lay into
lay it on
lay it on the line
lay it on thick
lay it on with a trowel
lay judge
lay level
lay level with the ground
lay lord
lay low
lay me down to sleep
lay money on
lay of the land
lay of the land, the
lay off
lay off from
lay on
lay on a color
lay on color
lay on one
lay on the line
lay on the rack
lay on the table
lay one's hand on
lay open
lay out
lay out a course
lay out money
lay out on
lay over
lay plans
lay reader
lay shaft
lay siege to
lay sister
lay stress upon
lay the ax to the root of
lay the blame on
lay the dust
lay the first stone
lay the foundation
lay the groundwork
lay the land
lay to
lay to heart
lay to rest
lay to the oars
lay to your charge
lay to your door
lay together
lay under an interdict
lay under an interdiction
lay under restraint
lay under the sod
lay up
lay up a store
lay up for
lay upon
lay vicar
lay violent hands on
lay wait
lay wait for
lay waste
lay your cards on the table
lay your course for
lay your finger on
lay your fingers on
lay your hands on
lay your money down
lay your shoulder to the wheel
lay yourself open
lay yourself open to
lay yourself out
lay-by
lay-day
lay-down
lay-fee
lay-land
lay-man
lay-minded
lay-off
lay-on
lay-out
lay-over
lay-shaft
lay-up
layaway plan
layer board
layer cake
layer tint
layer-on
layer-out
layer-over
layer-up
layers-out
laying bare
laying duck
laying of charges
laying on
laying on of hands
laying open
laying over
laying press
laying top
laying waste
layout chart
lazar house
lazar-house
lazuli bunting
lazy Susan
lazy bar
lazy crab
lazy daisy stitch
lazy eight
lazy eye
lazy guy
lazy halyard
lazy jack
lazy painter
lazy person
lazy stream
lazy susan
lazy tack
lazy tongs
lb ap
lb av
lb t
le dernier cri
le drapeau tricolore
le genre humain
le pas
le premier pas
le roi est mort vive le roi
le roi le veut
le sport
le style c'est l'homme
le tout ensemble
lea oak
lea rig
lea-land
lea-rig
lead a charmed life
lead a cloistered life
lead a dog's life
lead a retired life
lead acetate
lead acid cell
lead an easy life
lead arming
lead arsenate
lead ash
lead astray
lead azide
lead back
lead block
lead bullion
lead by the nose
lead captive
lead carbonate
lead chloride
lead chromate
lead colic
lead color
lead curve
lead dioxide
lead foil
lead glass
lead glaze
lead gray
lead into captivity
lead item
lead line
lead mill
lead mining
lead monoxide
lead nitrate
lead ocher
lead off
lead on
lead one a dance
lead one a merry chase
lead out
lead oxide
lead oxychloride
lead palsy
lead pencil
lead peroxide
lead pilot
lead pipe cinch
lead poisoning
lead rammer
lead role
lead runner
lead screw
lead sheet
lead singer
lead soap
lead someone a chase
lead spar
lead sulphate
lead sulphide
lead tetraethyl
lead the dance
lead the mind astray
lead the way
lead time
lead to
lead to believe
lead to the altar
lead tolerance
lead track
lead tree
lead up
lead up the garden path
lead up to
lead vinegar
lead vitriol
lead weed
lead white
lead you a chase
lead you a pretty dance
lead you to
lead you to expect
lead you to gather
lead you up the garden path
lead-acid battery
lead-blue
lead-burn
lead-burned
lead-burner
lead-burning
lead-chamber process
lead-clad
lead-coated
lead-colored
lead-covered
lead-encased
lead-filled
lead-free gas
lead-gray
lead-hardening
lead-headed
lead-in
lead-in wire
lead-lapped
lead-lead
lead-lined
lead-melting
lead-off
lead-pipe cinch
lead-pulverizing
lead-ruled
lead-sheathed
lead-smelting
lead-tempering
lead-up
leaded bronze
leaded glass
leaded flycatcher
leaden-blue
leaden-colored
leaden-eyed
leaden-footed
leaden-headed
leaden-heeled
leaden-hued
leaden-natured
leaden-paced
leaden-skulled
leaden-soled
leaden-souled
leaden-spirited
leaden-thoughted
leaden-weighted
leaden-willed
leaden-winged
leaden-witted
leader block
leader cable
leader head
leader of fashion
leader of men
leader of the opposition
leader pipe
leader writer
leading aircraftman
leaf mustard
leaf out
leaf picker
leaf roll
leaf roller
leaf rust
leaf scald
leaf sight
leaf sorter
leaf spot
leaf spring
leaf stripper
leaf through
leaf warbler
leaf-bearing
leaf-clad
leaf-climber
leaf-climbing
leaf-curl fungus
leaf-cutter
leaf-cutting ant
leaf-cutting bee
leaf-eared
leaf-eating
leaf-footed
leaf-forming
leaf-fringed
leaf-gold
leaf-hopper
leaf-laden
leaf-lard
leaf-nose
leaf-nosed
leaf-nosed bat
leaf-shaded
leaf-shaped
leaf-sheltered
leaf-strewn
leafcutter ant
leafcutter bee
leafy-stemmed
league together
league with
leaguer lass
leak away
leak in
leak out
leakage coefficient
leakage conductance
leakage conductor
leakage flux
leaking purse
leaky wave-guide antenna
lean and hungry look
lean as a rake
lean limbed
lean on
lean on a broken reed
lean on it
lean over
lean over backward
lean over backwards
lean toward
lean towards
lean upon
lean-cheeked
lean-eared
lean-face
lean-faced
lean-fleshed
lean-headed
lean-horned
lean-jawed
lean-limbed
lean-looking
lean-minded
lean-necked
lean-ribbed
lean-souled
lean-to
lean-to roof
lean-to tent
lean-tos
lean-witted
leaning thread
leaning toward
leaning tower
leap before you look
leap day
leap in the dark
leap into the breach
leap like a startled gazelle
leap over
leap over the wall
leap to the eye
leap up
leap year
leap-frog
leaping head
leaping spider
leaping weir
lear board
learn a lesson
learn about
learn all about
learn by doing
learn by experience
learn by heart
learn by rote
learn from
learn the ins and outs
learn the ropes
learn to live in your own skin
learn verbatim
learn word for word
learned clerk
learned man
learned profession
learner's permit
learning by heart
lease and release
lease out
lease rod
lease system
lease-back
lease-lend
lease-pardle
lease-purchase
leasehold insurance
leasehold mortgage
least bittern
least common denominator
least common multiple
least flycatcher
least killifish
least of all
least sandpiper
least shrew
least significant digit
least squares
least upper bound
least weasel
leather beetle
leather brown
leather carp
leather cloth
leather dresser
leather enameler
leather fern
leather goods
leather goods store
leather jack
leather maker
leather paper
leather star
leather-backed
leather-bound
leather-colored
leather-covered
leather-cushioned
leather-cutting
leather-faced
leather-hard
leather-headed
leather-jacket
leather-lined
leather-lunged
leather-necked
leather-winged
leatherback turtle
leathery turtle
leave a loose thread
leave alone
leave an aching void
leave be
leave behind
leave flat
leave flatfooted
leave go
leave half-done
leave holding the bag
leave home
leave in
leave in the dark
leave in the lurch
leave it to one
leave it to you
leave looking
leave loose ends
leave no avenue unexplored
leave no chance
leave no escape
leave no loose ends
leave no option
leave no room for error
leave no stone unturned
leave no trace
leave no void
leave not a rack behind
leave nothing hanging
leave nothing to chance
leave nothing to say
leave nothing undone
leave of absence
leave off
leave out
leave out in the cold
leave out nothing
leave out of account
leave out of your calculation
leave over
leave remaining
leave standing
leave taking
leave the atmosphere
leave the beaten path
leave the country
leave the door open
leave the earth behind
leave the ground
leave the nest
leave the scene
leave the stage
leave the straight and narrow
leave the way open
leave things as they are
leave to chance
leave to luck
leave to your own devices
leave to yourself
leave unavenged
leave undone
leave unsatisfied
leave well enough alone
leave word
leave you cold
leave you to gather
leave your card
leave your mark
leave yourself wide open
leave-taking
leaving aside
leaving life
leaving much to chance
leaving no room for error
leaving no stone unturned
leaving out
leaving out nothing
leaving the earth behind
leaving the ground
lebbek tree
lechosos opal
lecture hall
lecture room
lecture-demonstration
led astray
led by the nose
led captain
led farm
ledge stone
ledged door
ledgement table
ledger bait
ledger bark
ledger beam
ledger blade
ledger board
ledger line
ledger paper
ledger plate
ledger strip
ledger tackle
ledger-book
ledum camphor
lee anchor
lee gauge
lee helm
lee sheet
lee shore
lee side
lee tack
lee tide
lee wave
lee wheel
lee wheelsman
lee's birthday
lee-board
lee-bow
lee-way
leech line
leech rope
leech worm
leech-book
leek green
leek-green
leer at
leering look
leeward tide
left a mile behind
left bank
left bower
left field
left fielder
left five degrees rudder
left full rudder
left half rudder
left hand
left handsomely
left heart
left of center
left out
left out in the cold
left pedro
left rudder
left side
left stage
left standard rudder
left ten degrees rudder
left undone
left wing
left winger
left-bank
left-brained
left-eyed
left-eyed flounder
left-eyedness
left-foot
left-footed
left-footedness
left-footer
left-hand
left-hand buoy
left-hand dagger
left-hand engine
left-hand side
left-handed
leg-o'-mutton
leg-of-mutton
leg-of-mutton sail
leg-of-mutton spanker
leg-pull
leg-puller
leg-weary
legacy duty
legal action
legal adviser
legal age
legal agreement
legal aid
legal aid association
legal aid society
legal argument
legal assessor
legal authority
legal bucketing
legal cap
legal case
legal chemistry
legal claim
legal contract
legal counsellor
legal counselor
legal decision
legal document
legal estate
legal ethics
legal evidence
legal expert
legal fiction
legal flaw
legal form
legal geology
legal heir
legal holiday
legal inability
legal incapacity
legal instrument
legal irregularity
legal jointure
legal medicine
legal murder
legal order
legal paper
legal plea
lego-literary
lei day
leio-
leip-
leisure class
leisure suit
leisurely gait
lekai salmon
lem-
lemming mouse
lemon balm
lemon cheese
lemon chrome
lemon cucumber
lemon day lily
lemon drop
lemon geranium
lemon grass
lemon kali
lemon lily
lemon mint
lemon oil
lemon scurvy grass
lemon sole
lemon squash
lemon squeezer
lemon verbena
lemon vine
lemon yellow
lemon-color
lemon-colored
lemon-faced
lemon-flavored
lemon-grass oil
lemon-green
lemon-scented
lemon-scented gum
lemon-tinted
lemon-yellow
lemonade sumac
lend a color to
lend a hand
lend a helping hand
lend a willing ear
lend an ear
lend an ear to
lend one aid
lend substance to
lend support
lend wings to
lend your backing to
lend your countenance to
lend your favor to
lend your name to
lend your offices
lend your support to
lend yourself to
lend-lease
lend-leased
lend-leasing
lending at interest
lending institution
lending library
length and breadth
length between perpendiculars
length of time
length over all
lengthen out
leni-lenape
leno brocade
leno weave
lens cell
lens cover
lens hood
lens maker
lens making
lens opening
lens screen
lens turret
lens-mount
lens-shaped
lent lily
lenticular cloud
lenticular nucleus
lenticular process
lenticular truss
lenticulo-optic
lentil cut
lentil tare
lentil weevil
leonine partnership
leonine rhyme
leontiasis ossea
leopard cat
leopard flower
leopard frog
leopard lily
leopard lionne
leopard lizard
leopard moth
leopard seal
leopard's bane
leopard's spots
leopard's-bane
leopard-man
leper house
lepid-
lepidio-
lepra arabum
lepto-
lepto-form
lepto-type
lepton number
lerp insects
lese majesty
lese-majesty
less advanced
less and less
less semitone
less than
less than no time
lesser Bairam
lesser Ionic
lesser anteater
lesser bear
lesser celandine
lesser dog
lesser doxology
lesser litany
lesser multangular bone
lesser nobility
lesser omentum
lesser panda
lesser star grass
lesser weever
lesser wintergreen
lesser yellowlegs
let 'em have it
let a fart
let alone
let be
let blood
let bygones be bygones
let dangle
let daylight in
let down
let down easy
let down your defenses
let down your guard
let down your side
let drive
let drive at
let drop
let fall
let fall into desuetude
let fall into disuse
let fall the shadow of mine eyes
let flow through your fingers
let fly
let fly at
let get around
let get by
let get past
let go
let go by
let go by default
let go free
let go the anchor
let go with
let go your own way
let have
let have it
let her out
let in
let in on
let in on the know
let in to
let into
let into the secret
let it all hang out
let it be understood
let it go
let it have its way
let it pass
let it stand
let it take its course
let know
let loose
let loose of
let money be no object
let next to
let off
let off a shot at
let off steam
let on
let on like
let or hindrance
let out
let out on bail
let pass
let ride
let rip
let sleeping dogs lie
let slide
let slip
let slip the dogs of war
let slip through your fingers
let someone have it
let take its course
let the air out of
let the cat out of the bag
let the devil take the hindmost
let the matter stand
let the mind lie fallow
let the portcullis down
let the wound heal
let things take their course
let tomorrow take care of itself
let up
let up on
let well enough alone
let wind
let you go at will
let you have his head
let you have your own way
let you off easy
let you off this time
let your angry passions rise
let your attention wander
let your breath out
let your hair down
let your imagination riot
let your imagination run riot
let your imagination run wild
let your light shine
let your mind wander
let your thoughts wander
let your voice be heard
let your wits go bird's nesting
let yourself go
let yourself in for
let-alone
let-alone doctrine
let-alone policy
let-alone principle
let-off
let-out
let-pass
let-up
lethal blow
lethal chamber
lethal dose
lethal factor
lethal gene
lethargic encephalitis
lethargic hypnosis
letter avocatory
letter bag
letter board
letter bomb
letter book
letter box
letter card
letter carrier
letter carver
letter caster
letter cutter
letter drop
letter engraver
letter file
letter founding
letter foundry
letter from Uncle Sam
letter hand
letter learning
letter lichen
letter messenger
letter missive
letter name
letter of advice
letter of credence
letter of credit
letter of delegation
letter of introduction
letter of marque
letter of marque and reprisal
letter paper
letter plant
lettres de cachet
lettres de change
lettuce bird
lettuce green
lettuce mildew
lettuce opium
lettuce saxifrage
leuc-
leucite basalt
leucite-basanite
leucite-tephrite
leuco base
leuco-
leucoturic acid
leukemic reticuloendotheliosis
leuko-
leukocyt-
leuna saltpeter
lev-
levi facias
levee en masse
level as a plain
level at
level crossing
level curve
level curves
level head
level instrument
level land
level landing
level line
level of stress
level off
level pegging
level plane
level premium
level staff
level surfaces
level with
level-coil
level-headed
level-headedness
level-jawed
level-off
level-wind
leveling head
leveling instrument
leveling rod
leveling screw
leveling stand
leveling support
levelling screw
levels of meaning
lever action
lever engine
lever escapement
lever pilot
lever safety valve
lever scales
lever shears
lever tumbler
lever watch
lever-action
lever-action rifle
levin bolt
levin brand
levo camphor
levo-
levo-pinene
levulinic acid
levy a distress
levy blackmail
levy court
levy en masse
levy in mass
levy war on
lew-warm
lewis bolt
lewis gun
lewis iron
lex domicilii
lex fori
lex generalis
lex loci
lex mercatoria
lex mercatorum
lex non scripta
lex scripta
lex situs
lex talionis
lex terrae
lexical form
lexical insertion
lexical item
lexical meaning
lexigraphic character
library table
libration in latitude
libration in longitude
libration of the moon
libretto-writing
license bond
license fee
license plate
license tax
licensed pilot
licensed practical nurse
licensed victualer
lich bird
lich fowl
lich gate
lich owl
lich path
lich stone
lich-gate
lich-house
lich-owl
lichen fungus
lichen green
lichen islandicus
lichen primus
lichen tropicus
lichen-clad
lichen-crusted
lichen-grown
lichen-laden
lichenic acid
lick into shape
lick of work
lick one's shoes
lick the dust
lick the feet of
lick the plate
lick the platter
lick to a frazzle
lick your ass
lick your boots
lick your chops
lick your shoes
lick your wounds
lick-dish
lick-finger
lick-foot
lick-ladle
lie heavy
lie heavy upon
lie hid
lie hidden
lie idle
lie in
lie in Abraham's bosom
lie in ambush
lie in state
lie in the grave
lie in wait
lie in wait for
lie in your course
lie in your power
lie in your throat
lie like a trooper
lie limply
lie low
lie near the wind
lie of the land
lie off
lie off the land
lie on
lie on a level
lie on a level with
lie on the shelf
lie on the surface
lie on your back
lie on your face
lie on your head
lie opposite
lie out of
lie over
lie prone
lie prostrate
lie snug
lie still
lie supine
lie through your teeth
lie to
lie under
lie under a necessity
lie under an obligation
lie under the surface
lie up
lie upon
lie upon your oars
lie with
lie-abed
lie-by
lie-bys
lie-down
lied form
lieder singer
liege lord
liege man
liege poustie
liege subject
liege woman
liege-manship
lieno-
lieu commun
lieue marine
lieutenant colonel
lieutenant commander
lieutenant general
lieutenant governor
lieutenant junior grade
lieutenant-colonelcy
lieutenant-general
lieutenant-governorship
life after death
life and letters
life annuity
life arrow
life assurance
life belt
life beyond the grave
life breath
life buoy
life car
life cast
life cycle
life essence
life estate
life expectancy
life float
life force
life guard
life hangs by a thread
life history
life instinct
life insurance
life interest
life jacket
life line
life-destroying
life-devouring
life-diffusing
life-ending
life-enriching
life-force
life-giver
life-giving
life-guard
life-guardsman
life-hugging
life-infatuate
life-infusing
life-invigorating
life-lengthened
life-like
life-lorn
life-lost
life-maintaining
life-or-death
life-or-death struggle
life-outfetching
life-penetrated
life-poisoning
life-preserver
life-preserving
life-prolonging
life-quelling
life-rendering
life-renewing
life-restoring
life-sapping
life-saver
life-serving
life-size
life-sized
life-spent
life-style
life-support system
life-sustaining
life-sweet
life-teeming
life-thirsting
life-tide
life-timer
life-weariness
life-weary
life-while
life-worthy
life-yielding
lifeless matter
lifeless matter found in nature
lifelike image
liferent escheat
lifesaving boat
lifesaving service
lift a finger
lift a hand
lift a hand against
lift bolt
lift bridge
lift component
lift direction
lift force
lift gate
lift hammer
lift off
lift pump
lift ram
lift ratio
lift span
lift temporarily
lift tenter
lift the curtain on
lift the hat
lift the veil
lift truck
lift up
lift up the eyes
lift up the heart
lift up the voice
lift valve
lift van
lift wall
lift wire
lift your hand against
lift your voice
lift-drag ratio
lift-off
lift-off hinge
lift-slab
lifter rod
lifting body
lifting bolt
lifting bridge
lifting day
lifting eye
lifting foot
lifting head
lifting irons
lifting jack
lifting plan
lifting plate
lifting pump
lifting sail
lig.-by
ligamentum nuchae
light adaptation
light air
light and shade
light and shade surface
light artillery
light as a feather
light as air
light as any wind that blows
light as day
light as gossamer
light baffle
light battery
light beer
light bob
light bomber
light box
light bread
light breeze
light bridge
light bulb
light colonel
light comedian
light comedy
light cream
light cruiser
light curve
light displacement
light draft
light dragoon
light engine
light equation
light face
light filter
light fingers
light fixture
light flyweight
light globe
light gunmetal
light harmony
light harness
light headed
light heart
light heavyweight
light holder
light holders
light horse
light horseman
light housekeeping
light infantryman
light into
light line
light load line
light lock
light lunch
light machine gun
light magnesia
light meal
light measure
light meat
light metals
light meter
light middleweight
light mineral
light mineral oil
light music
light of day
light of heel
light of love
light of your eye
light of your life
light oil
light on
light opera
light out
light pen
light plot
light purse
light quantum
light railroad
light reaction
light red
light repast
light shield
light show
light sleep
light socket
light source
light texture
light the fuse
light the way
light touch
light tower
light transport
light trap
light treatment
light unit
light up
light upon
light valve
light verse
light weight
light welterweight
light whiskey
light wind
light wine
light year
light-adapted
light-armed
light-beam telephone
light-bearded
light-bellied
light-blue
light-bluish
light-bob
light-bodied
light-borne
light-bounding
light-brained
light-built
light-causing
light-century
light-charged
light-cheap
light-clad
light-colored
light-complexioned
light-creating
light-diffusing
light-disposed
light-drab
light-draft
light-embroidered
light-faced
light-fast
light-fingered
light-fingered gentry
light-fingeredness
light-foot
light-footed
light-footedly
light-footedness
light-gilded
light-giving
light-grasp
light-grasping
light-gray
light-green
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light-handed
light-handedly
light-handedness
light-harnessed
light-hating
light-headed
light-headedly
light-headedness
light-hearted
light-heartedly
light-heartenedness
light-heel
light-heel
light-horseman
light-horsemen
light-hued
light-intensity control
light-intensity indicator
light-leaved
light-legged
light-limbed
light-loaded
light-locked
light-marching
light-minded
light-mindedly
light-mindedness
light-o’-love
light-o’love
light-of-love
light-pervious
light-poised
light-producing
light-proof
light-reactive
light-refracting
light-refractive
light-robed
light-rooted
light-rootedness
light-scattering
light-sensitive
light-skinned
light-skirts
light-spirited
light-spread ing
light-struck
light-thoughted
light-timbered
light-tongued
light-treaded
light-veined
light-waved
light-weight
light-winged
light-witted
light-year
light-years
light-yellow
lighten one of
lightening hole
lighter discharger
lighter staff
lighter than air
lighter than vanity
lighter-than-air
lighter-than-air aviation
lighter-than-air craft
lighthouse clock
lighthouse coffeepot
lighthouse keeper
lighthouse tube
lighting off
lighting up
lighting-up time
lightish-blue
lightly touching
lightning arrester
lightning attack
lightning beetle
lightning bug
lightning conductor
<table>
<thead>
<tr>
<th>词语</th>
<th>词语</th>
<th>词语</th>
<th>词语</th>
<th>词语</th>
<th>词语</th>
<th>词语</th>
</tr>
</thead>
<tbody>
<tr>
<td>lightning discharge</td>
<td>lightning express</td>
<td>lightning file</td>
<td>lightning gods</td>
<td>lightning pains</td>
<td>lightning protector</td>
<td>lightning rod</td>
</tr>
<tr>
<td>lightning saw</td>
<td>lightning speed</td>
<td>lightning stone</td>
<td>lightning switch</td>
<td>lightning tooth</td>
<td>lightning tube</td>
<td>lightning war</td>
</tr>
<tr>
<td>lightning-like</td>
<td>lights out</td>
<td>lights-out</td>
<td>lign-</td>
<td>lign-aloes</td>
<td>lignaloe oil</td>
<td>ligni-</td>
</tr>
<tr>
<td>ligninsulphonic acid</td>
<td>lignite wax</td>
<td>ligno-</td>
<td>lignosulphonic acid</td>
<td>lignum aloes</td>
<td>lignum vitae</td>
<td>ligulate-flowered</td>
</tr>
<tr>
<td>lignuli-</td>
<td>like Niobe</td>
<td>like Swiss cheese</td>
<td>like a bat out of hell</td>
<td>like a blue streak</td>
<td>like a bolt from the blue</td>
<td>like a book</td>
</tr>
<tr>
<td>like a bulldog</td>
<td>like a coward</td>
<td>like a drowned rat</td>
<td>like a fish out of water</td>
<td>like a flash</td>
<td>like a furnace</td>
<td>like a horse in a mill</td>
</tr>
<tr>
<td>like a house afire</td>
<td>like a lamb</td>
<td>like a leech</td>
<td>like a lord</td>
<td>like a man</td>
<td>like a prune</td>
<td></td>
</tr>
</tbody>
</table>
like a scared rabbit
like a shot
like a shot out of hell
like a soldier
like a streak
like a streak of lightning
like a thief in the night
like a thunderbolt
like a thunderclap
like a trooper
like all creation
like all forty
like all get-out
like an oven
like anything
like as not
like best
like better
like blazes
like buckets in a well
like cats and dogs
like clockwork
like crazy
like dough
like enough
like figures
like for like
like fun
like fury
like grains of sand
like greased lightning
like hell I will
like it is
like lightning
like mad
like new
like no other
like nothing
like one possessed
like parchment
like putty
like putty in your hands
like sardines in a can
like shooting fish in a barrel
like sin
like sixty
like so
like sweet bells jangled
like taking candy from a baby
like that
like the rock of Gibraltar
like this
like to
like two drops of water
like water
like wax
like wildfire
like---but oh how different
like-eyed
like-fashioned
like-featured
like-looking
like-made
like-minded
like-mindedly
like-mindedness
like-natured
like-persuaded
like-sex
like-shaped
like-sized
liked to
likely lad
likely story
likely to
liken to
likes of
lilac gray
lilac mildew
lilac-banded
lilac-blue
lilac-colored
lilac-flowered
lilac-headed
lilac-mauve
lilac-pink
lilac-purple
lilac-tinted
lilac-violet
lilies of the valley
lilly-low
lilly-pilly
lily bell
lily bellflower
lily bind
lily family
lily flower
lily grass
lily green
lily iron
lily leek
lily liver
lily of the valley
lily pad
lily palm
lily pink
lily thorn
lily-cheeked
lily-clear
lily-cradled
lily-crowned
lily-fingered
lily-flower
lily-liver
lily-livered
lily-liveredness
lily-paved
lily-pot
lily-robed
lily-shaped
lily-shining
lily-tongued
lily-trotter
lily-white
lily-whiteness
lily-wristed
lima bean
limb-meal
limber as a dishrag
limber board
limber chest
limber hole
limber pine
limber rope
limber up
limber-neck
limber-twig pine
limbic lobe
limbic system
limbo patrum
limbs of Satan
lime anthracnose
lime boil
lime buffer
lime burner
lime epidote
lime feldspar
lime glass
lime grass
lime green
lime harmotome
lime hydrate
lime juice
lime liniment
lime mesotype
lime nitrogen
lime pit
lime plant
lime soap
lime sulfur
lime tree
lime twig
lime uranite
lime-ash
lime-boiled
lime-burner
lime-juicer
lime-kiln
lime-pit
lime-rod
lime-soda mesotype
lime-sulphur
lime-twig
lime-water
lime-white
limette oil
limit condition
limit control
limit gauge
limit man
limit of patience
limit of proportionality
limit of resolution
limit of vision
limit point
limit switch
limit system
limit yourself
limit, the
limit-setting
limited company
limited divorce
limited edition
limited fee simple
limited liability
limited monarchy
limited negative
limited nuclear weapons
limited number
limited owner
limited partner
limited partnership
limited payment insurance
limited policy
limited veto
limited war
limited-liability company
limiting adjective
limiting condition
limiting factor
limiting point
limousine-landaulet
limp as a dishrag
limp-cover book
limpet mine
limping meters
limping standard
limu-elele
limu-kohu
lin ft
lin tree
lin-lan-lone
linanlyl acetate
linch-pin
linden borer
linden family
linden green
linden inchworm
linden leaf beetle
linden yellow
lindy hop
line ahead
line block
line breaker
line breeding
line buck
line caster
line chief
line co-ordinates
line copy
line radio
line relay
line riding
line space
line spectrum
line squall
line storm
line switch
line symmetry
line test
line up
line up with
line vector
line voltage
line your pockets
line-bred
line-breed
line-bucker
line-casting
line- engraving
line-firing
line-haul
line-hunting
line-of-battle ship
line-out
line-roll conveyer
line-sequential
line-sequential color television
line-throwing rocket
line-up
lineal measure
lineal promotion
lineal rank
lineal relation
linear accelerator
linear algebra
linear calibrations
linear chromatism
linear chromatist
linear coefficient
linear combination
linear complex
linear content
linear dependence
linear differential equation
linear differential form
linear equation
linear fractional transformation
linear function
linear functional
linear graph
linear independence
linear lead
linear manifold
linear measure
linear measures
linear micrometer
linear motor
linear operation
linear operator
linear perspective
linear polarization
linear problem
linear programming
linear projection
linear segment
linear set
linear space
linear substitution
linear system
linear tactics
linear transformation
linear-acute
linear-attenuate
linear-awled
linear-elliptical
linear-elongate
linear-ensate
linear-filiform
linear-lanceolate
linear-leaved
linear-ligulate
linear-oblong
linear-obovate
linear-setaceous
linear-shaped
linear-subulate
linearly ordered set
lined blade
lined gold
lined up
linen closet
linen draper
linen draperess
linen drapery
linen floss
linen fold
linen machine
linen panel
linen paper
linen pattern
linen wedding
linen-armourer
lines drawing
lines plan
ling cod
ling pink
linga sharira
linger behind
linger on
lingoa wood
lingu-
lingua crioula
lingua franca
lingua francas
lingua geral
lingua rustica
lingua vulgaris
linguaeFranca
lingual artery
lingual bone
lingual delirium
lingual gyrus
lingual hemorrhoid
lingual nerve
lingual protrusion lisp
lingual ribbon
lingual titubation
linguistic act
linguistic ambience
linguistic analysis
linguistic area
linguistic atlas
linguistic behavior
linguistic borrowing
linguistic community
linguistic finesse
linguistic form
linguistic geographer
linguistic geography
linguistic intercourse
linguistic island
linguistic scholar
linguistic science
linguistic scientist
linguistic stock
linguistic structure
linguistic tact
linguo-
lining cloth
lining sight
lining stitcher
lining-out
lining-up
link block
link motion
link polygon
link up
link verb
link with
link-boy
link-up
linkage formula
linkage group
linkage groups
linked rhyme
linked to
linked verse
linking r
linking verb
linnet hole
lino tile
lino-typist
linoleic acid
linolenic acid
linoleum block
linoleum knife
linoleum-block print
linoleum-block printing
linolic acid
linotype operator
linseed cake
linseed meal
linseed oil
linseed tea
linsey-woolsey
linsey-woolseys
lint bells
lint bow
lint index
lint-white
lion ant
lion dollar
lion dragon
lion leopard
lion lizard
lion monkey
lion poisson
lion tamer
lion's share
lion-bold
lion-color
lion-drunk
lion-footed
lion-guarded
lion-haunted
lion-headed
lion-heart
lion-hearted
lion-hided
lion-hued
lion-like
lion-maned
lion-mettled
lion-tailed
lion-tailed macaque
lion-tailed monkey
lion-tawny
lion-thoughted
lion-toothed
lip bit
lip comfort
lip comforter
lip devotion
lip fern
lip homage
lip labor
lip loyalty
lip microphone
lip molding
lip plug
lip praise
lip reader
lip reading
lip reverence
lip rouge
lip server
lip service
lip stop
lip strike
lip wisdom
lip worship
lip worshiper
lip-
lip-back
lip-bearded
lip-blushing
lip-born
lip-deep
lip-good
lip-labour
lip-learned
lip-licking
lip-open
lip-read
lip-reading
lip-red
lip-round
lip-rounding
lip-smacking
lip-spooling
lip-teeth
lipid histiocytosis
lipo-
lipoid pneumonia
liquefied petroleum gas
liqueur glass
liquid absolute
liquid air
liquid apiol
liquid assets
liquid assets ratio
liquid coal
liquid compass
liquid conduction
liquid crystal
liquid crystal display
liquid extract
liquid fire
liquid fuel
liquid glass
liquid gold
liquid helium
liquid measure
liquid nitrogen
liquid oxygen
liquid paraffin
liquid petrolatum
lister plough
lister plow
listing machine
lit de justice
lit to the gills
lit up
litany stool
litchi nut
literacy test
literae humaniores
literae scriptae
literal error
literal meaning
literal translation
literal-minded
literalists of the imagination
literary agent
literary artefact
literary artifact
literary artisan
literary artist
literary artistry
literary composition
literary craftsman
literary critic
literary criticism
literary elegance
literary flair
literary hack
literary inelegance
literary journeyman
literary language
literary man
literary piracy
literary pirate
literary power
literary production
literary remains
literary style
literary talent
literature of the field
lith-
lithia emerald
lithia mica
lithia water
lithic acid
lithium aluminum hydride
lithium chloride
lithium fluoride
lithium oxide
lithium stearate
litho purple
litho-
lithographic stone
litis contestatio
litmus milk
litmus paper
litmus test
litter lout
litter-bearer
litterae humaniores
little Joe
little Mary
little Miss Fixit
little angel
little auk
little bear
little bit
little bite
little black ant
little blue heron
little bluestem
little boys' room
little brain
little brother
little brown jug
little bugger
little businessman
little by little
little casino
little chance
little cherub
little darling
little devil
little doll
little egret
little end
little expectation
little fellow
little finger
little game
little girls' room
little good
little grebe
little green man
little gull
little guy
little guys
little hours
little house
little innocent
little kids
little known
little leaf
little magazine
little man
little master
little millet
little missy
little monkey
little office
little one
little ones
little opportunity
little owl
little people
little people, the
little person
little pitcher with big ears
little problem
little quaking grass
little rascal
little recall
little red schoolhouse
little retentivity
little shaver
little smack
little spotted cat
little squirt
little summer of St
little tad
little talk
little terror
little theater
little theatre
little thing
little toe
little tot
little voice
little ways
little while
little white lie
little woman
little, a
little-able
little-bitsy
little-bitty
little-boukit
little-branched
little-by-little
little-ease
little-footed
little-girlish
little-girlishness
little-go
little-haired
little-headed
little-known
little-loved
little-minded
little-mindedness
little-prized
little-read
little-regarded
little-statured
little-trained
little-traveled
little-used
little-worth
littleneck clam
littoral zone
liturgical east
liturgical garments
liturgical music
liturgical north
liturgical south
liturgical west
litz wire
live a cat-and-dog life
live a life of ease
live again
live alone
live and breathe
live and learn
live and let live
live apart
live as man and wife
live at
live beyond your means
live by your wits
live center
live centre
live circuit
live coal
live down
live fast
live for the day
live forever
live from hand to mouth
live frugally
live hard
live high
live high off the hog
live high on the hog
live in
live in a glass house
live in clover
live in hopes
live in peace
live in retirement
live in your memory
live it up
live like a pig
live like cat and dog
live like the grasshopper
live load
live matter
live oak
live off of
live off the fat of the land
live on
live on the fat of the land
live on velvet
live one
live or die
live outside the law
live parking
live peaceably with all men
live plainly
live show
live simply
live spindle
live steam
live stock
live temperately
live the life of Riley
live through
live through it
live to a ripe old age
live to eat
live to fight another day
live together
live trap
live up
live up to
live upon
live upon nothing
live well
live wire
live with
live with it
live within your income
live-bearer
live-bearing
live-box
live-ever
live-forever
live-front switchboard
live-in maid
live-in-idleness
live-oak
live-out maid
live-sawed
live-virus vaccine
lived-in
lively imagination
lively interest
lively market
lively pace
liven vivificate
liver and lights
liver and onions
liver balsam
liver brown
liver chestnut
liver death
liver disease
liver extract
liver fluke
liver fluke disease
liver fungus
liver lily
liver maroon
liver of sulfur
liver of sulphur
liver rot
liver salts
liver sausage
liver sausage tree
liver shark
liver spots
liver-brown
liver-colored
liver-hued
liver-moss
liver-rot
liver-white
liveried servant
liverwort lettuce
livery colors
livery company
livery cupboard
livery servant
livery stable
livery-man
livery-stable
livestock insurance
livid brown
livid pink
livid purple
livid violet
livid with rage
livid-brown
living being
living death
living force
living fossil
living hall
living image
living in
living issue
living language
living machine
living matter
living nature
living picture
living pledge
living quarters
living rock
living room
living sapphires
living soul
living space
living thing
living trust
living wage
livre jaune
livre parisis
livre tournois
lizard bronze
lizard fish
lizard flower
lizard green
lizard seeker
lizard's-tail
lizards-tail
lizardtail grass
llama hair
lm-hr
lm/W
lo and behold
loa loa
load chart
load control
load displacement
load draft
load factor
load fund
load indicator
load line
load line mark
load of money
load resistance
load shedding
load the dice
load the mind
load the mind with
load water line
load water plane
load waterline
load with care
load with ornament
load with reproaches
load-indicating resistor
load-line disk
load-line mark
load-water-line
loaded cane
loaded dice
loaded for
loaded for bear
loaded moment
loaded with doom
loaded with shame
loaded with significance
loading coil
loading donkey
loading down
loading inductance
loaf of bread
loaf sugar
loaf-sugar
loam board
loan agent
loan collection
loan farm
loan form
loan god
loan office
loan officer
loan shark
loan translation
loan value
loan word
loan-office
loan-shark
loan-sharking
loaned stock
loaves and fishes
lob's pound
lob-
lob-worm
lobar pneumonia
lobato-
lobato-digitate
lobato-divided
lobato-foliaceous
lobato-partite
lobato-ramulose
lobby pine
lobby through
lobed-leaved
lobelia blue
lobelia family
lobelia violet
loblolly bay
loblolly boy
loblolly pine
loblolly sweetwood
loblolly tree
lobster Newburg
local tax
local time
local union
local wind
local yoke
local-option law
local-oscillator tube
locally Euclidean space
locally compact space
locally finite set
loci classici
loci sigilli
lock bay
lock forward
lock gate
lock horns
lock hospital
lock in
lock nut
lock off
lock on
lock on to
lock out
lock plate
lock rail
lock saw
lock seam
lock seat
lock step
lock stitch
lock the door
lock turtle
lock up
lock washer
lock, stock, and barrel
lock-a-daisy
lock-grained
lock-hair fern
lock-jaw
lock-out
lock-up
locked in
locked jaw
locked up
locked-up page
locked-wire rope
locker box
locker paper
locker plant
locker room
locking face
locking gauntlet
locking in
locking on
locking pallet
locking piece
locking plate
locking ring
locking signals
locking up
locking wheel
lockup safety valve
loco citato
loco disease
loco parentis
loco supra citato
loco vetch
loco-descriptive
loco-foco
locomotive boiler
locomotive engine
locomotor ataxia
locoprimo citato
loctal base
locum tenens
locum tenentes
locum-tenency
locus classicus
locus communis
locus in quo
locus sigilli
locus standi
locust bean
locust beetle
locust bird
locust eater
locust lobster
locust mite
locust moth
locust plant
locust pod
locust sawfly
locust shrimp
locust tree
locust-kernel gum
locust-tree
lode claim
loden coat
loden green
lodge a complaint
lodge a plaint
lodge in the mind
lodged in your mind
lodgepole pine
lodger bee
lodger franchise
lodging house
lodging knee
lodging place
lodging turn
lodh bark
loft-dried
lofting iron
lofty affectations
lofty airs
lofty ambition
lofty mountains
lofty peak
lofty-browed
lofty-headed
lofty-humored
lofty-looking
lofty-minded
lofty-notioned
lofty-peaked
lofty-plumed
lofty-roofed
lofty-sounding
log bunk
log cabin
log canoe
log carriage
log chip
log deck
log dog
log drive
log driver
log driving
log fixer
log frame
log glass
log jack
log jam
log kicker
log line
log loader
log measure
log peeler
log perch
log reel
log rule
log run
log runner
log scale
log scaler
log ship
log slate
log tooth
log turner
log-book
log-log
log-roll
log-roller
log-rolling
logan apple
logan stone
logan-stone
loganberry wine
logarithmic curve
logarithmic function
loggan stone
loggerhead shrike
loggerhead sponge
loggerhead turtle
logging car
logging locomotive
logging sled
logging stone
logging wheels
logic circuit
logic-chopper
logic-chopping
logical analysis
logical circle
logical construction
logical discussion
logical empiricism
logical empiricist
logical fallacy
logical impossibility
logical operation
long ballot
long bill
long bob
long bone
long card
long chair
long chalk
long clam
long cloth
long coat
long cross
long distance
long division
long dozen
long drink of water
long duration
long ess
long face
long fake
long for
long gallery
long game
long green
long haul
long home
long hop
long horn
long horse
long house
long hundred
long hundredweight
long in the tooth
long interest
long iron
long jenny
long johns
long jump
long life
long life to
long mane
long mark
long market
long measure
long metre
long mordent
long moss
long odds
long on looks
long pants
long pennant
long pig
long play
long pooper
long primer
long pull
long purse
long range
long range aid to navigation
long rifle
long road
long robe
long rod
long rope
long run
long shanks
long shot
long side
long sight
long since
long splice
long standing
long step
long stock
long sufferance
long suit
long sweetening
long sword
long tether
long time
long tin
long to
long ton
long tongue
long topgallant mast
long trail
long trousers
long underwear
long vacation
long view
long vowel
long wave
long way
long while
long word
long-
long-acustomed
long-acre
long-agitated
long-ago
long-and-short work
long-arm
long-arm balance
long-armed
long-awaited
long-awned
long-axed
long-backed
long-barreled
long-beaked
long-bearded
long-bellied
long-berried
long-billed
long-boat
long-bodied
long-borne
long-bow
long-bracted
long-branched
long-breathed
long-buried
long-celled
long-chained
long-clawed
long-coated
long-coats
long-contended
long-continued
long-continuing
long-coupled
long-crested
long-cycle
long-cycled
long-dated
long-day
long-dead
long-delayed
long-descending
long-deserted
long-desired
long-destroying
long-distance
long-distance call
long-docked
long-drawn
long-drawn-out
long-eared
long-eared owl
long-enduring
long-established
long-exerted
long-expected
long-experienced
long-extended
long-eyed sharp
long-faced
long-faded
long-favored
long-fed
long-fiber
long-fibered
long-fin tunny
long-fingered
long-finned
long-flaked coil
long-fleeced
long-flowered
long-footed
long-forgotten
long-fronted
long-fruited
long-gown
long-gowned
long-grassed
long-hair
long-haired
long-haired griffon
long-hand
long-handed
long-handled
long-head
long-headed
long-headedness
long-heeled
long-hid
long-horned
long-horned beetle
long-horned grasshopper
long-jawed
long-jointed
long-journey
long-kept
long-lacked
long-lasting
long-lastingness
long-leaved
long-leaved bent
long-leaved pine
long-leg
long-legged
long-limbed
long-line
long-lined
long-liner
long-lining
long-lived
long-livedness
long-living
long-locked
long-lost
long-lunged
long-memoried
long-nebed
long-neck clam
long-necked
long-nosed
long-off
long-on
long-parted
long-past
long-pasterned
long-pending
long-period variable
long-planned
long-playing
long-plumed
long-pod
long-podded
long-possessed
long-projected
long-protracted
long-quartered
long-range
long-range attack aircraft
long-range bomber
long-range forecasting
long-range heavy bomber
long-range medium bomber
long-range patrol bomber
long-range plan  
long-range planning  
long-range radar  
long-range rocket  
long-reaching  
long-resounding  
long-ribbed  
long-ridged  
long-robed  
long-roofed  
long-rooted  
long-saved  
long-settled  
long-shaded  
long-shadowed  
long-shafted  
long-shanked  
long-shaped  
long-shore  
long-shut  
long-sighted  
long-sightedness  
long-skulled  
long-sleeved  
long-snouted  
long-sought  
long-span  
long-spine  
long-spined  
long-spun  
long-spurred  
long-staffed  
long-stalked  
long-standing  
long-staple  
long-staple isinglass  
long-stapled  
long-stemmed  
long-stocked  
long-streaming  
long-stretched  
long-stroke  
long-styled  
long-succeeding  
long-sufferance  
long-suffered  
long-suffering  
long-sufferingly
long-sundered
long-tail
long-tailed
long-tailed chat
long-tailed tit
long-term
long-term bond
long-term loan
long-term memory
long-termer
long-thinking
long-threatened
long-time
long-timed
long-toed
long-toed stint
long-tongue
long-tongued
long-toothed
long-traveled
long-visaged
long-waisted
long-wandered
long-wandering
long-wave
long-wedded
long-winded
long-windedly
long-windedness
long-winged
long-wire aerial
long-wire antenna
long-wished
long-withdrawing
long-withheld
long-wooled
long-worded
longcase clock
longed-for
longhair music
longi-
longicorn beetle
longing eye
longing for the past
longitude by account
longitude in arc
longitude in time
longitudinal axis
longitudinal coefficient
longitudinal framing
longitudinal magnification
longitudinal section
longitudinal stability
longitudinal wave
longleaf pine
longleaf yellow pine
longschat pine
longshore drift
longways dance
loo mask
look a fright
look a gift horse in the mouth
look a mess
look a sight
look about for
look about one
look after
look after your fences
look after your own interests
look aghast
look agog
look ahead
look alive
look all over
look all over hell
look another way
look around
look around for
look as if you had seen a ghost
look aside
look askance
look askance at
look askant
look asquint
look at
look at in the light of
look at it
look away
look back
look back on
look back upon things past
look bad
look beautiful
look before you leap
look beyond
look big
look black
look black as thunder
look black upon
look bleak
look blue
look closely at
look coldly upon
look cool upon
look daggers
look daggers at
look dark
look down
look down on
look down over
look down upon
look down your nose
look down your nose at
look everywhere
look fit to kill
look foolish
look for
look for a needle in a haystack
look for time
look for trouble
look forth
look forward to
look full in the face
look good
look green about the gills
look guilty
look here
look high and low
look in
look in on
look in the face
look in your eyes
look into
look into every hole and corner
look into the future
look kindly upon
look like
look like a million
look like hell
look like the devil
look lively
look on
look on the bright side
look on the dark side
look on with the evil eye
look out
look out for
look out for number one
look out upon
look over
look right through
look round
look serious
look sharp
look silly
look slippy
look something terrible
look straight in the eye
look straight in the eyes
look sullen
look sweet upon
look the other way
look threatening
look through
look to
look to be
look to your laurels
look toward
look up
look up and down
look up to
look upon
look upon as
look upstairs and downstairs
look with scorn upon
look with your own eyes
look you
look you in the eye
look you in the face
look you up
look-alike
look-alikes
look-down
look-in
look-over
look-see
look-through
look-up
looked-for
looker-on
lookers-on
looking ahead
looking back
looking fit to kill
looking for
looking forward to
looking glass
looking out the window
looking up
looking-glass
looking-glass bush
lookout man
loom joiner
loom large
loom of the land
loom oiler
loom tenter
loom turner
loom weaver
loom-state
looming in the distance
looming in the future
loony bin
loop aerial
loop antenna
loop back
loop in
loop knot
loop line
loop of Henle
loop stitch
loop the loop
loop winding
loop window
loop-hole
loop-the-loop
loophole frame
looping mill
looping the loop
loose bowels
loose change
loose construction
loose cover
loose end
loose ends
loose for sea
loose formation
loose memory
loose morals
loose order
loose purse strings
loose sentence
loose smut
loose thread
loose tongue
loose translation
loose woman
loose-barbed
loose-bodied
loose-coupled
loose-curl'd
loose-driving
loose-enrobed
loose-fibered
loose-fitting
loose-fleshed
loose-floating
loose-flowered
loose-floating
loose-footed
loose-footed sail
loose-girdled
loose-gowned
loose-handed
loose-hanging
loose-hipped
loose-hung
loose-joint hinge
loose-jointed
loose-kneed
loose-leaf
loose-leaf notebook
loose-limbed
loose-lipped
loose-lived
loose-living
loose-locked
loose-lying
loose-mannered
loose-moraled
loose-necked
loose-packed
loose-panicked
loose-principled
loose-robed
loose-skinned
loose-spike'd
loose-thinking
loose-tongued
loose-topped
loose-wadded
loose-wived
loose-woven
loose-writ
loosen the purse strings
loosen up
looseness of the bowels
lop-ear
lop-eared
lop-sided
lopho-
loppered milk
lord and master
lord bird
lord chancellor
lord it over
lord lieutenant
lord mayor
lord of creation
lord of misrule
lord of the bedchamber
lord of the manor
lord paramount
lord spiritual
lord temporal
lord trier
lord's day
lord's prayer
lord's supper
lord's table
lord-in-waiting
lord-lieutenancy
lord-lieutenant
lords and ladies
lords of creation
lords temporal and spiritual
lords-and-ladies
lords-in-waiting
lorraine cross
lose altitude
lose blood
lose caste
lose color
lose countenance
lose courage
lose credit
lose currency
lose distinctness
lose face
lose flesh
lose ground
lose heart
lose heat
lose hope
lose momentum
lose no time
lose novelty
lose one
lose one's cookies
lose out
lose patience
lose power
lose resolution
lose self-control
lose sharpness
lose sight of
lose speed
lose strength
lose the chance
lose the day
lose the opportunity
lose the will to live
lose time
lose track of
lose weight
lose your good name
lose your grip
lose your head
lose your hearing
lose your heart
lose your heart to
lose your life
lose your nerve
lose your reason
lose your senses
lose your shirt
lose your sight
lose your temper
lose your tongue
lose your vision
lose your way
lose your wits
lose yourself in
lose-out
losh hide
losh leather
losing game
losing hazard
losing streak
losing your touch
loss leader
loss of contact with reality
loss of ground
loss of hearing
loss of honor
loss of innocence
loss of life
loss of memory
loss of mind
loss of name
loss of reason
loss of repute
loss of speech
loss of tone
loss of touch with reality
loss of voice
loss of your illusions
loss ratio
lost cause
lost in
lost in amazement
lost in thought
lost in wonder
lost lamb
lost language
lost motion
lost river
lost sheep
lost soul
lost souls
lost to
lost to all sense of honor
lost to shame
lost to sight
lost to view
lost tribes
lost-wax process
lot on
lot out
lot, a
lot, the
lote bush
lots of laughs
lotus grass
lotus land
lotus position
lotus-eater
lotus-eating
loud and clear
loud color
loud noise
loud pedal
loud sound
loud-acclaiming
loud-applauding
loud-bellowing
loud-blustering
loud-calling
loud-clamoring
loud-cursing
loud-hailer
loud-laughing
loud-mouth
loud-mouthed
loud-mouths
loud-ringing
loud-roared
loud-roaring
loud-screaming
loud-singing
loud-sounding
loud-speaker
loud-speaking
loud-spoken
loud-squeaking
loud-thundering
loud-ticking
loud-voiced
loudspeaker van
lousy-da
lough diver
louis d'or
louis quatorze
louis quinze
louis seize
louis treize
lounge around
lounge bar
lounge car
lounge chair
lounge lizard
lounge suit
lounging jacket
lounging pajamas
lounging robe
loup cervier
loup-cervier
loup-garou
louping ill
loups-garous
louse herb
louse up
louse-up
loused up
lousy knave
lousy rich
lousy with
louver board
louver boards
louver window
love God
love affair
love apple
love arrows
love charm
love chest
love child
love deities
love ditty
love feast
love game
love god
love goddess
love grass
love interest
love knot
love letter
love match
love nest
love of God
love of country
love of mankind
love potion
love seat
love set
love song
love story
love the sound of your own voice
love to
love to distraction
love vine
love-anguished
love-apple
love-begot
love-begotten
love-bird
love-bitten
love-born
love-breathing
love-crossed
love-darting
love-delighted
love-devouring
love-drury
love-entangle
love-entangled
love-enthralled
love-feast
love-illumined
love-in-a-mist
love-in-idleness
love-inspired
love-inspiring
love-knot
love-lacking
love-laden
love-learned
love-lies-bleeding
love-lilt
love-lorn
love-mad
love-madness
love-maker
love-making
love-mourning
love-performing
love-sick
love-smitten
love-spent
love-starved
love-stricken
love-touched
love-whispering
love-worthiness
love-worthy
love-wounded
loved one
lovely as the day
lovely build
lovely time
lovely to behold
lover of beauty
lover of learning
lover of wisdom
lover's knot
lover's leap
lover-boy
lovers' lane
lovey-dovey
loving care
loving couple
loving cup
loving kindness
loving-kindness
low IQ
low area
low beam
low blood pressure
low brass
low bunt
low camp
low charge
low church
low class
low comedian
low comedy
low cunning
low down
low estimation
low explosive
low fellow
low frequency
low fulham
low german
low grade
low green tent
low ground
low grounds
low growth rate
low house
low hurdles
low in the pecking order
low latin
low man on the totem pole
low mass
low milling
low opinion
low order of importance
low order of probability
low pitch
low price
low price tag
low prices
low priority
low profile
low quality
low relief
low rumbling
low sodium diet
low spear grass
low spirits
low sunday
low tariff
low taste
low temperature
low tide
low visibility
low voice
low water
low wine
low wines
low-altitude bombing
low-arched
low-backed
low-bellowing
low-bended
low-blast
low-blooded
low-bodied
low-boiling
low-born
low-boughed
low-bowed
low-breasted
low-bred
low-brow
low-browed
low-built
low-calorie diet
low-camp
low-capacitance probe
low-carbohydrate diet
low-caste
low-ceiled
low-ceilinged
low-charge
low-churchman
low-class
low-conceited
low-conditioned
low-consumption
low-cost
low-country
low-crested
low-crowned
low-current
low-cut
low-deep
low-down
low-down dirty shame
low-downer
low-downness
low-ebbed
low-energy fission
low-filleted
low-flighted
low-fortuned
low-frequency
low-frequency current
low-frequency speaker
low-frequency wave
low-gauge
low-geared
low-grade
low-heeled
low-hung
low-intensity
low-key
low-keyed
low-lead gas
low-level
low-level language
low-leveled
low-lipped
low-lived
low-living
low-low
low-lying
low-masted
low-melting
low-minded
low-mindedly
low-mindedness
low-murmuring
low-muttered
low-necked
low-paneled
low-pass filter
low-pitched
low-power
low-pressure
low-pressure area
low-pressure cylinder
low-pressure salesmanship
low-priced
low-principled
low-priority
low-profile
low-purposed
low-quality
low-quartered
low-rate
low-rented
low-resistance
low-rimmed
low-rise
low-roofed
low-salt diet
low-set
low-sized
low-sounding
low-spirited
low-spiritedly
low-spiritedness
low-spoken
low-statured
low-temperature
low-tension
low-test
low-thoughted
low-toned
low-tongued
low-tread
low-uttered
low-voiced
low-voltage
low-voltage protection
low-voltage release
low-waisted
low-water
low-water mark
low-wattage
low-wheeled
low-wing monoplane
low-withered
low-witted
low-yield nuclear weapons
lowbush blueberry
lowdown, the
lower apsis
lower atmosphere
lower berth
lower bo
lower boom
lower bound
lower case
lower chamber
lower class
lower classes
lower criticism
lower deck
lower frequencies
lower fungus
lower hold
lower house
lower limit
lower mast
lower middle class
lower mizzen-topsail yard
lower mordent
lower oneself
lower orders
lower ranks
lower regions
lower sail
lower school
lower semi-continuous function
lower semicontinuous function
lower side
lower status
lower strata
lower studding sail
lower the boom
lower the spirits
lower world
lower your colors
lower your flag
lower your guard
lower your note
lower your tone
lower yourself
lower-boom topping lift
lower-case
lower-case alphabet
lower-cased
lower-casing
lower-income housing
lowering yourself
lowest common denominator
lowest common multiple
lowest layer
lowest level
lowest point
lowest stratum
lowest terms
lowland fir
lowland plover
lowland white fir
lowness of spirit
lowside window
loxa bark
loyal friendship
loyal opposition
loyalty oath
lozenge perforation
lozenge-shaped
lpW
lt-yr
lubber fend
lubber fiend
lubber grasshopper
lubber line
lubber's hole
lubber's knot
lubber's line
lubber's mark
lubber's point
lubber-hole
lube oil
lubricating agent
lubricating oil
lucid interval
lucid stillness
lucifer match
luck of the draw
luck penny
lucken gowan
lucky bean
lucky break
lucky dip
lucky dog
lucky person
lucky piece
lucky shot
lucky strike
lucky-bag
lucrative interest
lucus a non lucendo
ludicro-
lufbery circle
luff on luff
luff tackle
luff up
luff upon luff
lug foresail
lug hook
lug in
lug in by the heels
lug nut
lug pad
lug screw
lug sill
lug topsail
lug wrench
lug-rigged
lug-worm
luggage shop
luggage tan
luggage train
luggage van
lugger topsail
lukewarm piety
lukewarm support
lull before the storm
lull to sleep
lullaby vt
lumb-
lumbar puncture
lumbar region
lumbar rheumatism
lumber jacket
lumber kiln
lumber room
lumber-pie
lumbering pace
lumberman’s saw
lumbo-
lumbo-abdominal
lumbo-aortic
lumbo-iliac
lumbo-inguinal
lumbo-ovarian
lumen meter
lumen-hour
lumin-
luminosity curve
luminous efficacy
luminous efficiency
luminous emittance
luminous energy
luminous exitance
luminous flux
luminous flux density
luminous intensity
luminous paint
luminous power
luminous range
lump coal
lump it
lump of sugar
lump sucker
lump sum
lump together
lump-fish
lumpen proletariat
lumpy jaw
luna cornea
luna moth
lunar base
lunar caustic
lunar city
lunar colony
lunar corona
lunar cycle
lunar day
lunar distance
lunar eclipse
lunar excursion module
lunar halo
lunar insertion
lunar landscape
lunar mare
lunar module
lunar month
lunar orbit
lunar rainbow
lunar rill
lunar rille
lunar tide
lunar waste
lunar year
lunar-diurnal
lunatic asylum
lunatic fringe
lunch break
lunch counter
lunch hour
lunch time
lunch wagon
luncheon bar
luncheon meat
luncheon voucher
lung book
lung cancer
lung fever
lung fish
lung fluke
lung plague
lung sickness
lunge at
lungworm disease
lunisolar precession
lunitidal interval
lupus erythematosus
lupus vulgaris
lurid imagination
lurking hole
lurking place
lush up
lust after
lust for
lust for knowledge
lust for learning
lust-born
lust-burned
lust-burning
lust-engendered
lust-stained
lust-tempting
luster pottery
luster wool
lustful leer
lusts of the flesh
lusus naturae
lute maker
lute player
lute stern
lute tablature
lute-
lute-backed
lute-fashion
lute-playing
lute-string
lute-voiced
luteinizing hormone
luteo-
lutine bell
luting paste
luxuriate in
luxuriate on
luxury liner
luxury price
luxury tax
luxury-loving
luxury-proof
lyam-hound
lych gate
lych-gate
lychee nut
lycoperdon nut
lycopodium powder
lye boil
lygaeid bug
lygus bug
lying ahull
lying down
lying hid
lying in ambush
lying in wait
lying low
lying press
lying pretension
lying to
lying wall
lying-in
lying-in hospital
lying-ins
lyings-in
lyke-wake
lyme grass
lyme-grass
lyme-hound
lymph cell
lymph corpuscle
lymph gland
lymph heart
lymph node
lymph nodule
lymph-
lymph-vascular
lymphatic gland
lymphatic leukemia
lymphatic system
lympho-
lympho-adenoma
lymphogenous leukemia
lymphogranuloma inguinale
lymphogranuloma venereum
lymphoid cell
lymphoid leukemia
lynch law
lynx cat
lynx flower
lynx-eyed
lyo-
lyra viol
lyrate-lobed
lyre back
lyre bat
lyre pheasant
lyre snake
lyre tree
lyre turtle
lyre-form sofa
lyre-guitar
lyre-leaved
lyre-shaped
lyre-tailed
lyre-tailed nightjar
lyric bass
lyric cantata
lyric drama
lyric poet
lyric poetry
lyric soprano
lyric stage
lyric tenor
lyric theater
lyric-writing
lyrical abstraction
lyrical abstractionist
lyrico-dramatic
lyrico-epic
lys-
lysergic acid
lysergic acid diethylamide
lyso-
m b
m d
m-l
m-RNA
m-day
m-hum
m-ple point
mA
mAN
mC
mCi
mF
mGal
mH
mL
mM
mR
mRNA
mV
mW
ma chere
ma-jong
mabi bark
macaco worm
macadamia nut
macaranga gum
macaroni and cheese
macaroni cheese
macaroni salad
macaroni wheat
macaronic verse
macaw fat
macaw palm
mace butter
mace oil
mace-bearer
mach number
machina versatilis
machinations of the devil
machine binder
machine bolt
machine composition
machine computation
machine cutter
machine dresser
machine drill
machine feeder
machine gun
machine gunner
machine knife
machine knitter
machine language
machine lapper
machine nailer
machine pistol
machine politician
machine politics
machine readable
machine rifle
machine ruler
machine screw
machine shop
machine stamper
machine steel
machine stitch
machine stitcher
machine stitching
machine tool
machine word
machine-breaking
machine-broken
machine-cut
machine-drilled
machine-driven
machine-finished
machine-forged
machine-gun
machine-gun fire
machine-gunned
machine-gunning
machine-hour
machine-knitted
machine-made
machine-mixed
machine-sewed
machine-stitch
machine-stitched
machine-switching office
machine-tooled
machine-wrought
machinery steel
machinist's hammer
machinist's mate
mackay bean
mackerel bait
mackerel bird
mackerel breeze
mackerel gull
mackerel shark
mackerel sky
mackinaw coat
macnab cypress
macrame cord
macrame knot
macro-
macro-axis
macrobiotic diet
macrocytic anemia
macula lutea
mad about
mad apple
mad as a March hare
mad as a hatter
mad as a hornet
mad as a wet hen
mad dog
mad for
mad itch
mad money
mad on
mad round
mad staggers
mad with lust
mad-apple
mad-brained
mad-bred
mad-doctor
mad-dog skullcap
mad-headed
madder bleach
madder bloom
madder blue
madder brown
madder carmine
madder crimson
madder extract
madder lake
madder orange
madder pink
madder purple
madder red
madder rose
madder scarlet
madder violet
madder yellow
made dish
made eye
made flesh
made for
made mast
made of
made of iron
made of money
made out of
made out of whole cloth
made public
made rug
made sure
made to grovel
made to order
made up
made up of
made-beaver
made-over
made-to-measure
made-to-order
made-up
madia oil
madonna lily
madre-perl
madrepore glass
madrepore marble
madreporic body
madreporic plate
madreporic tubercle
mae west
maestro di cappella
mafura tallow
mag tape
magazine camera
magazine clothing
magazine publishing
magazine section
magazine writer
magellanic cloud
magen david
maggot in one's brain
maggot in the brain
maggot snipe
maggot therapy
maggot-pie
magic act
magic belt
magic bullets
magic carpet
magic circle
magic eye
magic formula
magic lantern
magic lily
magic number
magic realism
magic realist
magic ring
magic show
magic spectacles
magic spell
magic square
magic wand
magic words
magico-religious
magico-sympathetic
maginot line
magistral line
magistrates' court
magma basalt
magmatic stoping
magna charta
magna cum laude
magne-
magnesia magma
magnesium carbonate
magnesium chloride
magnesium citrate
magnesium dioxide
magnesium flare
magnesium hydroxide
magnesium light
magnesium oxide
magnesium peroxide
magnesium sulfate
magnesium trisilicate
magnet forger
magnet keeper
magnet school
magnet-
magnetic amplifier
magnetic attraction
magnetic axis
magnetic battery
magnetic bearing
magnetic bottle
magnetic bubble
magnetic cartridge
magnetic character reader
magnetic chart
magnetic circuit
magnetic coefficient
magnetic compass
magnetic concentration
magnetic conductivity
magnetic constant
magnetic core
magnetic course
magnetic creeping
magnetic curves
magnetic declination
magnetic deviation
magnetic dip
magnetic dipole moment
magnetic disk
magnetic domain
magnetic drum
magnetic drum recorder
magnetic electricity
magnetic elements
magnetic equator
magnetic field
magnetic field of currents
magnetic figures
magnetic flux
magnetic flux density
magnetic force
magnetic friction
magnetic heading
magnetic hysteresis
magnetic inclination
magnetic induction
magnetic ink
magnetic intensity
magnetic lag
magnetic lens
magnetic memory
magnetic meridian
magnetic mine
magnetic moment
magnetic needle
magnetic north
magnetic permeability
magnetic pickup
magnetic pole
magnetic potential
magnetic pulley
magnetic quantum number
magnetic recorder
magnetic recording
magnetic relay
magnetic reluctance
magnetic remanence
magnetic repulsion
magnetic resistance
magnetic retardation
magnetic retentiveness
magnetic rotation
magnetic scalar potential
magnetic storm
magnetic tape
magnetic tape recorder
magnetic tape unit
magnetic tube of force
magnetic variation
magnetic viscosity
magnetic wire
magnetic wire recorder
magnetico-
magnetite arc
magnetite arc lamp
magnetite-basalt
magnetite-olivinite
magnetite-spinellite
magnetizing current
maiden's-wreaths
maidenhair fern
maidenhair spleenwort
maidenhair tree
maidenhair-tree
maidenhair-vine
maids-hair
maids-in-waiting
mail boat
mail car
mail carrier
mail catcher
mail coach
mail drop
mail flag
mail order
mail orderly
mail packet
mail phaeton
mail pouch
mail steamer
mail train
mail truck
mail van
mail-cheeked
mail-coach
mail-order buying
mail-order goods
mail-order house
mail-order selling
mailed fist
mailed fist, the
mailed-cheeked
mailing list
mailing machine
mailing tube
main body
main brace
main chance
main clause
main course
main current
main deck
main diagonal
main dish
main drag
main feature
main features
main force
main gaff-topsail
main gauche
main idea
main interest
main lift
main line
main office
main plane
main plant
main point
main road
main rocket
main royal
main sea
main sequence
main sequence star
main skysail
main staysail
main stem
main store
main street
main strength
main thing
main yard
main-brace
main-brace bumpkin
main-course
main-de-fer
main-deck
main-frame computer
main-guard
main-royal brace
main-royal lift
main-royal mast
main-royal stay
main-royal staysail
main-royal studding sail
main-royal yard
main-royal-studding-sail boom
main-sheet
main-skysail brace
main-skysail lift
main-skysail mast
main-skysail stay
main-skysail yard
main-top
main-topgallant
main-topgallant brace
main-topgallant lift
main-topgallant mast
main-topgallant sail
main-topgallant stay
main-topgallant studding sail
main-topgallant yard
main-topgallantmast
main-topmast
main-topmast stay
main-topmast staysail
main-topmast studding sail
main-topmast-studding-sail boom
main-topsail
main-topsail lift
main-topsail schooner
main-topsail yard
main-try sail gaff
main-try sail peak halyard
main-try sail rig
main-try sail vang
main-yard
main-yardman
mainstream jazz
maintain a household
maintain clearance
maintain connection
maintain continuity
maintain distance
maintain position
maintain the heading
maintain the highest standards
maintain with your last breath
maintain your perspective
maintained school
maintaining power
maintenance and cure
maintenance bond
maintenance man
maintenance of membership
maintenance of your good name
mais oui
maison de sante
maison-dieu
maitre d'
maitre d'hotel
maitre de ballet
maitre d'hotel
| maize mildew       |
| maize oil         |
| maize smut        |
| maize yellow      |
| maize-eater       |
| majo bitters      |
| majolica dipper   |
| majolica painter  |
| major agglutinins |
| major axis        |
| major basilica    |
| major chord       |
| major element     |
| major form class  |
| major general     |
| major in          |
| major interval    |
| major key         |
| major league      |
| major medical insurance |
| major mode        |
| major operation   |
| major operations  |
| major order       |
| major orders      |
| major part        |
| major party       |
| major penalty     |
| major piece       |
| major planet      |
| major poet        |
| major premise     |
| major premiss     |
| major scale       |
| major second      |
| major seminary    |
| major seventh chord |
| major suit        |
| major surgery     |
| major tenace      |
| major term        |
| major third       |
| major triad       |
| major-domo        |
| major-domos       |
| major-domoship    |
| major-general     |
| major-generality  |
make a dash
make a dash at
make a dash for
make a date
make a dead set against
make a dead set at
make a dead-stick landing
make a deal
make a deal for
make a decision
make a demand
make a dent in
make a determined resistance
make a detour
make a dicker
make a distinction
make a doormat of oneself
make a doormat of yourself
make a face
make a fair copy
make a false step
make a faux pas
make a federal case
make a federal case of
make a figure
make a fine distinction
make a flight
make a fool of
make a fool of yourself
make a fortune
make a fresh start
make a funny
make a fuss
make a fuss about
make a fuss over
make a generalization
make a getaway
make a go of it
make a good board
make a good end
make a good thing of
make a grab for
make a half board
make a hash of
make a hit
make a hit with
make a hog of yourself
make a hole in
make a household word of
make a journey
make a killing
make a landfall
make a laughingstock of
make a leg
make a light
make a lip
make a liquid sound
make a living
make a long face
make a long story short
make a low bow
make a lucky strike
make a man of
make a mark
make a match
make a memorandum
make a mess of
make a miscue
make a misstep
make a mistake
make a mockery of
make a monkey of
make a monkey of yourself
make a monkey out of
make a motion
make a moue
make a mouth
make a move
make a mow
make a new beginning
make a new man of
make a nice distinction
make a noise
make a noise in the world
make a nose dive
make a note
make a parachute jump
make a party to
make a pass
make a pass at
make a passage
make a patsy of
make a pawn of
make a peace offering
make a personal appearance
make a pig of yourself
make a pilgrimage  
make a pinch  
make a pitch for  
make a play for  
make a plaything of  
make a plea  
make a point of  
make a practice of  
make a precipitate departure  
make a prediction  
make a present of  
make a pretense  
make a pretense of  
make a pretext of  
make a production of  
make a prognosis  
make a projection  
make a promise  
make a proof  
make a prophecy  
make a puppet of  
make a purchase  
make a quick exit  
make a racket  
make a radical change  
make a raid  
make a rebuttal  
make a recension  
make a reconnaissance  
make a regulation  
make a report  
make a request  
make a requisition  
make a resolute stand  
make a resolution  
make a reverence  
make a round trip  
make a row  
make a run  
make a run for  
make a rush at  
make a sacrifice  
make a sale  
make a scene  
make a scoop  
make a selection  
make a set at  
make a short sale
make a show
make a show of
make a sign
make a signal
make a slow start
make a sound
make a sounding
make a space
make a special effort
make a spectacle of yourself
make a speech
make a spinnaker run
make a splash
make a splurge
make a sport of
make a spurt
make a stab at
make a stand
make a stand against
make a statement
make a stir about
make a strategic withdrawal
make a strong bid for
make a study of
make a subtle distinction
make a success
make a sucker of
make a survey
make a syllabus
make a tentative move
make a thrust at
make a tilt at
make a to-do
make a to-do over
make a touch
make a train
make a trial of
make a trip
make a try
make a virtue of necessity
make a visit
make a whole
make a will
make a wrong step
make a wry face
make a wry face at
make a wry mouth
make accounts square
make acknowledgment
make acknowledgments of
make acquaintance with
make acquainted
make acute
make advances
make after
make agree
make all clear for
make all square
make allocations
make allowance
make allowance for
make allowances for
make amends
make an adaptation
make an adjustment
make an ado
make an ado about
make an allusion to
make an announcement
make an appearance
make an approximation
make an arrangement
make an arrest
make an ass of
make an ass of yourself
make an assignment
make an attempt
make an auspicious beginning
make an edition
make an effort
make an end of
make an entrance
make an entry
make an estimation
make an example of
make an exit
make an expedition
make an experiment
make an idol of
make an impact upon
make an impression
make an improvement
make an incursion
make an inroad
make an intrusion
make an investment
make an irruption into
make an obeisance
make an offer
make an opening
make an outcry
make an overture
make an uproar
make and break
make angry
make answer
make anxious
make apology for
make application
make arrangements
make arrangements for
make as if
make as though
make assignments
make assurance double sure
make at
make attentive
make available
make available to all
make away
make away with
make bad weather
make believe
make better
make bite the dust
make black
make blind
make blood flow freely
make blue
make bold
make bold to
make bold to ask
make bold with
make bones about
make bones of
make book
make both ends meet
make bricks without straw
make businesslike
make capital of
make capital out of
make ceramics
make certain
make choice of
make clear
make cold
make comfortable
make common cause
make common cause with
make compensation
make complex
make concave
make concessions
make conditional
make confession
make conform
make connection
make contact with
make contingent
make conversation
make court to
make delivery
make dependent
make dispositions for
make dissimilar
make distinctions
make do
make do with
make doubt
make drunk
make ducks and drakes of
make due provision for
make dutiable
make economies
make elastic
make electric
make ends meet
make every effort
make expiation
make explosive noise
make eyes at
make fair promise
make fair weather
make false pretenses
make fast
make for
make for health
make foul water
make four
make free
make free of
make free with
make friends with
make fun
make fun of
make game of
make go
make goo-goo eyes at
make good
make good time
make good use of
make good weather
make good your escape
make good your promise
make good your word
make grandiloquent
make graphics
make grieve
make grow
make happy
make haste
make haste slowly
make hay
make hay of
make hay while the sun shines
make head
make head against
make headway
make heavy weather
make heavy weather of it
make her number
make holiday
make hopeless
make hot
make hot under the collar
make human
make ill-humored
make immortal verse
make imperative
make impossible
make incumbent
make innovations
make inquiry
make inquisition
make it
make it a condition
make it clear
make it felt
make it hot for
make it quick
make it snappy
make it so
make it tough for
make it up
make it up to
make it with
make it your business
make its appearance
make justice prevail
make knots
make known
make land
make larger
make late
make laws
make leeway
make legal
make legal and binding
make legendary
make lie down and roll over
make lie down and turn over
make light
make light of
make lighter
make like
make likely
make liquor
make little of
make love
make mad
make magnetic
make mandatory
make matters up
make mention of
make merry
make merry with
make mincemeat of
make money
make money by
make more acute
make more likely
make more than one
make more than you
make mountains out of molehills
make much ado about
make much ado about nothing
make much of
make music
make nervous
make no bones about
make no bones about it
make no doubt
make no mistake
make no provision
make no scruple of
make no sign
make nothing of
make obeisance
make obligatory
make of
make off
make off with
make one
make one easy
make one tremble
make one's blood run cold
make one's flesh creep
make one's hair stand on end
make one's teeth chatter
make oneself heard
make out
make out a case
make out a report
make out like
make out with
make over
make overtures
make parallel
make parts
make pay through the nose
make peace
make perfect
make place
make plain
make plates
make pleasant
make pliant
make plumb
make port
make possible
make precise
make preparations
make prints
make probable
make profit
make progress
make progress against
make propitiation
make proud
make provision for
make public
make purple
make putty of
make quits
make rapid strides
make ready
make red
make redundant
make reference to
make reparation
make reprisal
make requisition
make requital
make reservations
make restitution
make retribution
make right
make right prevail
make room
make round
make sacrifice to
make sad
make sad work of
make safe
make sail
make sea room
make secure
make semitransparent
make sense
make sensitive
make shift
make short work of
make sit up and beg
make small
make smell like roses
make so bold as to
make soft
make someone see stars
make sore
make space
make special
make staccato sounds
make sternway
make strides
make suit to
make supplication
make sure
make sure against
make sure of
make talk
make terms
make the air blue
make the best of
make the best of a bad bargain
make the best of it
make the best of your time
make the best of your way
make the butt of your humor
make the chips fly
make the dust fly
make the eagle scream
make the eyes water
make the flesh crawl
make the flesh creep
make the fur fly
make the grade
make the mind a blank
make the most of
make the most of it
make the most of your time
make the mouth water
make the round of
make the rules
make the scene
make the sign of the cross
make the sign of the cross over
make the sign of the cross upon
make the sparks fly
make the supreme sacrifice
make the welkin ring
make the worst of
make things hum
make threads
make time
make time stand still
make tired
make too much of
make tough
make toward
make toxic
make tracks
make tributary
make trouble
make uncertain
make unfeeling
make uniform
make unintelligible
make unique
make up
make up accounts
make up for
make up for lost time
make up leeway
make up to
make up your mind
make use of
make vertical
make viscid
make void
make war
make war on
make water
make waves
make way
make way for
make way into
make welcome
make whoopee
make with
make worse
make you a
make you a compliment
make you fed-up
make you feel at home
make you feel welcome
make you jump out of his skin
make you puke
make you retch
make you say 'uncle'
make you see
make you see double
make you shit your pants
make you shudder
make you sick
make you sick in the stomach
make you sick to the stomach
make you sing small
make you sit up and take notice
make you stare
make you tiddly
make you tired
make you tremble
make you vomit
make young
make your adieu
make your appearance
make your bed
make your bed and lie on it
make your blood boil
make your blood run
make your blood run cold
make your bow
make your business
make your case
make your cause your own
make your choice
make your compliments to
make your debut
make your escape
make your exit
make your field
make your flesh creep
make your fortune
make your hair stand on end
make your head reel
make your head revolve
make your head spin
make your head swim
make your head whirl
make your heart bleed
make your home
make your keep
make your mark
make your mouth water
make your move
make your nerves tingle
make your oath
make your own
make your own way
make your peace
make your pile
make your point
make your rounds
make your salutations
make your skin crawl
make your teeth chatter
make your voice heard
make your way
make your way to
make yourself acquainted with
make yourself at home
make yourself comfortable
make yourself conspicuous
make yourself easy about
make yourself easy on that score
make yourself felt
make yourself heard
make yourself master of
make yourself part of
make yourself scarce
make yourself understood
make-
make-ado
make-belief
make-believe
make-do
make-faith
make-falcon
make-fire
make-fray
make-game
make-hawk
make-king
make-law
make-mirth
make-or-break
make-out artist
make-peace
make-ready
make-shame
make-sport
make-talk
make-up
make-way
make-weight
make-work
maker's mark
maker-off
maker-up
makes of
makes you shiver
makeup artist
makeup man
making a clean breast
making a leg
making a part of
making again
making amends
making an end
making blind
making certain
making distinctions
making do
making foolish
making good
making iron
making it with
making light
making no bones about it
making once more
making over
making ready
making right
making scenes
making soft
making up
making way
making yourself scarce
making-up
making-up day
making-up price
mako shark
mal a propos
mal de mer
mal de pinto
mal du pays
mal-
mal-entendu
mal-observation
mala fide
mala fides
malac-
malacca cane
malachite green
malaco-
malade imaginaire
maladie du pays
maladjusted personality
malar bone
malarial fever
malayo-
male alto
male animal
male bamboo
male being
male cat
male chauvinism
male chauvinist
male chauvinist pig
male fern
male gamete
male line
male organs
male person
male rhyme
male servant
male sex
male turkey
male-
male-sterile
maleic acid
maleic hydrazide
malevolent influence
malgre soi
malic acid
malice aforethought
malice prepense
malicious defamation
malicious gossip
malicious mischief
malicious parody
malignant catarrh
malignant catarrhal fever
malignant granuloma
malignant growth
malignant hypertension
malignant lymphoma
malignant pustule
malignant tumor
malleable cast iron
malleable iron
mallee bird
mallee fowl
mallee root
malleh bug
mallow family
mallow pink
mallow rose
mallow rust
mallow tree
malm rock
malonic acid
malonic ester
malonyl group
malonyl radical
maloo climber
malpighian layer
malpighian tube
malpractice insurance
malt extract
malt house
malt liquor
malt sugar
malt vinegar
malt whiskey
malt whisky
malt-dust
malt-horse
malt-house
malt-worm
malta fever
malted milk
maltese cat
maltese cross
malum in se
mama's boy
mamma's boy
mammary gland
mammato-cumulus
mammee apple
mammee colorado
mammee sapota
mammoth tree
mammy coot
mammy wagon
mamori katana
man Friday
man about town
man after your own heart
man alive
man and boy
man and wife
man and woman
man ape
man engine
man fish
man friday
man from Mars
man fungus
man higher up
man hunt
man hunter
man in the moon
man in the street
man jack
man lock
man midwife
man mountain
man of God
man of action
man of all work
man of commerce
man of courage
man of deeds
man of experience
man of few words
man of genius
man of good will
man of his word
man of honor
man of influence
man of intellect
man of iron
man of learning
man of letters
man of mark
man of means
man of men
man of mettle
man of note
man of old
man of parts
man of property
man of science
man of straw
man of substance
man of taste
man of the cloth
man of the house
man of the people
man of the world
man of wealth
man of wisdom
man on the flying trapeze
man on the make
man overboard
man power
man the garrison
man-killing
man-made
man-maiming
man-making
man-midwife
man-midwifery
man-milliner
man-mimicking
man-minded
man-minute
man-o'-war
man-o'-war bird
man-of-the-earths
man-of-war
man-of-war bird
man-of-war fish
man-of-war's man
man-orchis
man-pleasing
man-record chart
man-ridden
man-servant
man-shaped
man-size
man-sized
man-sized job
man-sized meal
man-stalking
man-subduing
man-supporting
man-tailored
man-taught
man-to-man
man-to-man defense
man-trap
man-woman
man-worshiping
man-worthiness
man-worthy
man-year
manage somehow
manage the price of
manage to
manage with
manage yourself
manageable price
managed currency
managed price
managed prices
management accounting
management consultant
management consulting
management engineering
management information system
management share
management theory
management trust
managing director
managing editor
mancona bark
mandarin duck
mandarin orange
mandated territory
mandatory injunction
mandatory primary
mandatory referendum
mandelic acid
mandibulo-
mandibulo-auricularis
mando-bass
mando-cello
mandrel lathe
mandrel press
maned wolf
manettia vine
maneuver tactics
maneuvering room
maneuvering space
mangabeira rubber
mangan-
manganese bronze
manganese brown
manganese dioxide
manganese epidote
manganese heptoxide
manganese oxide
manganese sesquioxide
manganese spar
manganese steel
manganese sulfate
manganese tetroxide
manganese velvet brown
manganese violet
manganic acid
manganous sulfate
mange mite
mange-mange
mangel-wurzel
manger board
manger son ble en herbe
mangle operator
mangle rack
mangle wheel
mango anthracnose
mango bird
mango fish
mango ginger
mango melon
mango-squash
mangold fly
mangold-wurzel
mangrove catechu
mangrove cuckoo
mangrove family
mangrove mullet
mangrove skipper
mangrove snapper
mangum terrace
manhood suffrage
mania a potu
maniacal excitement
manic condition
manic state
manic-depressive
manic-depressive psychosis
manicoba rubber
maniere criblee
manifest content
manifest destiny
manifest itself
manifest yourself
manifold paper
manifold pressure gauge
manila grass
manila hemp
manila paper
manipulate the market
manipulated market
manipulated variable
manipulative surgery
manlike types
manly art of self-defense
manly vigor
mann tree
mann-
manna ash
manna from heaven
manna grass
manna gum
manna in the wilderness
manna insect
manna lichen
manna sugar
manna-croup
manned rocket
manned station
manner of articulation
manner of being composed
manner of speaking
manner of working
manners of cooking
mannish bob
mannish female
mannish wavy shingle
mannitol hexanitrate
manometer pressure
manor farm
manor house
manor manege
manor-house
manrope knot
mansard roof
mansion house
mansion-house
mansions in the sky
manstopping bullet
manta ray
mantel shelf
mantel-tree
mantis crab
mantis shrimp
mantle cavity
mantle of snow
mantle rock
mantle yourself with
mantle-rock
mantled in darkness
mantoux test
manual alphabet
manual art
manual arts school
manual control
manx cat
many a time
many a time and oft
many and various
many irons in the fire
many thanks
many times
many times over
many-
many-acred
many-angled
many-armed
many-banded
many-beaming
many-belled
many-bleating
many-blossomed
many-blossoming
many-branched
many-breasted
many-celled
many-chambered
many-cobwebbed
many-colored
many-coltered
many-cornered
many-earred
many-eyed
many-faced
many-faceted
many-faceness
many-faceted
many-flowered
many-folded
many-formed
many-fountained
many-gifted
many-handed
many-headed
many-headed multitude
many-headedness
many-horned
many-hued
many-jointed
many-knotted
many-languaged
many-lay
many-leaved
many-legged
many-lived
many-lobed
many-meaning
many-millioned
many-minded
many-mingled
many-mingling
many-mouthed
many-named
many-nationed
many-nerved
many-one
many-parted
many-peopled
many-petaled
many-pigeonholed
many-pillared
many-pointed
many-ranked
many-rayed
many-ribbed
many-rooted
many-rowed
many-seated
many-seatedness
many-seeded
many-sided
many-sidedness
many-sounding
many-spangled
many-spotted
many-steepled
many-stemmed
many-storied
many-stringed
many-syllabled
many-tailed
many-tinted
many-toned
many-tongued
many-towered
many-tribed
many-tubed
many-twinkling
many-valued
many-valued logic
many-valved
many-veined
many-voiced
many-wandering
many-weathered
many-winding
many-windowed
many-wintered
many-yeared
map lichen
map maker
map making
map out
map projection
map reader
map reading
map turtle
maple ash
maple borer
maple eye
maple family
maple scale
maple sirup
maple sugar
maple syrup
maple syrup urine disease
maple worm
maple-faced
maple-leaved
mar-
mar-hawk
marabou stork
maraging steel
marang nut
maraschino cherries
maraschino cherry
marathon race
marble cake
marble cork
marble flower
marble thrush
marble-arched
marble-breasted
marble-calm
marble-checkered
marble-colored
marble-constant
marble-covered
marble-faced
marble-grinding
marble-hard
marble-imaged
marble-looking
marble-minded
marble-mindedness
marble-pale
marble-paved
marble-piled
marble-pillared
marble-polishing
marble-quarrying
marble-ribbed
marble-sculptured
marble-topped
marble-white
marbled paper
marc de Burgogne
marcel wave
march against
march away
march in double-quick time
march in quick time
march of events
march of time
march off
march on
march out
march out of step
march past
march stone
march tempo
march under the banner of
march up to the cannon's mouth
march upon
march with
march-land
march-man
march-past
marche aux puces
marching orders
marchioness-ship
marconi rig
mardi gras
mare clausum
mare liberum
mare nostrum
mare's nest
mare's tail
mare's-nest
mare's-tail
mare- rode
marechal niel
mares of Diomedes
margaric acid
margin draft
margin line
margin of lift
margin of power
margin purchaser
margin up
marginal affair
marginal land
marginal man
marginal matter
marginal note
marginal sea
marginal utility
margined securities
maria theresa dollar
mariage de convenance
marigold finch
marigold window
marigold yellow
marijuana cigarette
marijuana smoker
marine animal
marine animals
marine barometer
marine belt
marine biology
marine blue
marine chronometer
marine corps
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mark-up
marked down
marked resemblance
marked with the crow's foot
marker beacon
marker buoy
marker-down
marker-off
marker-out
markers-off
market analysis
market analyst
market bleach
market boat
market crab
market cross
market expansion
market garden
market gardener
market gardening
market hunter
market index
market keeper
market letter
market mammy
market order
market overt
market penny
market place
market pot
market price
market research
market town
market value
market, the
market-ripe
marketable securities
marketing research
marking caliper
marking cotton
marking gage
marking gauge
marking hammer
marking hatchet
marking ink
marking iron
marking knife
marking nut
marking stitch
marking the occasion
marl grass
marl-pit
marlin swordfish
marline-spike
marlinespike fish
marlinespike hitch
marlinespike seamanship
marling hitch
marmalade box
marmalade plum
marmalade tree
marmalade repose
marmot squirrel
marnean epoch
maroon red
marquise rose
marquoise scale
marram grass
marriage act
marriage bed
marriage brokage
marriage broker
marriage ceremony
marriage chest
marriage connection
marriage contract
marriage counselor
marriage deities
marriage encounter
marriage flight
marriage god
marriage goddess
marriage guidance
marriage license
marriage of convenience
marriage portion
marriage proposal
marriage relationship
marriage sacrament
marriage settlement
marriage song
marriage vow
marriage-bed
married couple
married love
married man
married name
married print
married state
married status
married woman
marron glace
marrons glac
marrow bean
marrow cabbage
marrow pea
marrow squash
marry into
marry off
marsh andromeda
marsh bent
marsh blackbird
marsh bluebill
marsh buck
marsh cress
marsh crocodile
marsh deer
marsh elder
marsh fern
marsh fever
marsh five-finger
marsh foxtail
marsh gas
marsh grass
marsh harrier
marsh hawk
marsh hen
marsh mallow
marsh marigold
marsh parsley
marsh pea
marsh peep
marsh pennywort
marsh pine
marsh pink
marsh plover
marsh purslane
marsh quail
marsh rabbit
marsh robin
marsh rosemary
marsh samphire
marsh shield fern
marsh speedwell
marsh spike grass
marsh spot
marsh stitchwort
marsh tea
marsh tern
marsh tit
marsh titmouse
marsh treider
marsh trefoil
marsh turnip
marsh vetching
marsh violet
marsh warbler
marsh watercress
marsh wren
marsh-mallow
marshal your ideas
marshal your thoughts
marshal’s baton
marshalling yard
marsupial mole
marsupial mouse
martello tower
martial arts
martial law
martial music
martial spirit
martin snipe
martingale backrope
martingale boom
marumi kumquat
marvel-of-Peru
mary jane
mary magdalene
mascarene grass
mascot blue
masculine caesura
masculine ending
masculine rhyme
masculo-
mash machine
mash note
mash tun
mash up
mash weld
mashie iron
mashie niblick
mask microphone
mask of death
mask stop
masked ball
masking piece
masking tape
mason bee
mason jar
mason moth
mason spider
mason wasp
mason's line
mason's lung
mason-dixon line
masquerade as
masquerade ball
masquerade party
mass action
mass attack
mass card
mass defect
mass destruction
mass energy
mass in
mass leave
mass man
mass market
mass media
mass meeting
mass movement
mass murder
mass noun
mass number
mass observation
mass observer
mass of the presanctified
mass production
mass ratio
mass reflex
mass spectrograph
mass spectrography
mass spectrometer
mass spectrometry
mass spectroscope
mass spectroscopy
mass spectrum
mass suicide
mass unit
mass-book
master gauge
master gunner
master hand
master key
master leaf
master map
master mariner
master mason
master matrix
master mechanic
master of
master of ceremonies
master of foxhounds
master of style
master of the house
master of the revels
master of the rolls
master of the situation
master plan
master race
master rod
master screw
master sergeant
master shifter
master spirit
master spirit of the age
master spring
master stroke
master switch
master tap
master touch
master wheel
master workman
master your feelings
master yourself
master's degree
master's degree candidate
master's gown
master's oral
master-at-arms
master-builder
master-hand
master-key
master-mason
master-singer
master-slave manipulator
master-stroke
master-vein
master-work
masters-at-arms
mastery of skills
masthead angle
masthead compass
mastic tree
mastiff bat
masting house
masto-
mastodon locomotive
mastoid cell
mastoid process
mat bean
mat burn
mat cane
mat finish
mat of hair
mat rush
mat-covered
mat-forming
mat-ridden
mat-roofed
mata-mata
matc-maker
match coins
match cord
match data
match findings
match frame
match game
match hook
match in the powder barrel
match joint
match lining
match pipe
match plane
match plate
match play
match point
match race
match rifling
match rope
match stamp
match tub
match up with
match wheel
match yourself against
match-board
mathematical probability
mathematically exact
mathematically probable
mathemato-
mathematico-logical
mathematico-physical
matilija poppy
matin song
matinee idol
matinee race
matinee racing
mating call
mating cry
mator mate
matr-
matre d'h tel
matre d'h tel butter
matri-
matricaria camphor
matrimonial agency
matrimonial agent
matrimonial bureau
matrimonial union
matrimony vine
matrix algebra
matrix mechanics
matrix paper
matrix sentence
matron of honor
matron of honour
matron-like
matt weave
matte shot
matted hair
matter in deed
matter in hand
matter informalism
matter informalist
matter little
matter of chance
matter of concern
matter of course
matter of fact
matter of ignorance
matter of importance
matter of indifference
matter of interest
matter of law
matter of life and death
matter of life or death
matter of necessity
matter of no consequence
matter of no importance
matter of record
matter painting
matter waves
matter-of
matter-of-course
matter-of-fact
matter-of-factly
matter-of-factness
matters in hand
matters of importance
mattress type
matura diamond
mature age
mature belief
mature judgment
mature man
mature thought
mature woman
matutinal epilepsy
matzo ball soup
matzo balls
matzo meal
matzoth baker
maundy thursday
mauvais quart d'heure
mauvais sujet
mauvaise honte
mauve blush
mauve decade
maxillo-
 maximal ideal
 maximum dissemination
 maximum likelihood
 maximum modulus principle
 maximum speed
 maximum thermometer
 maximum-security prison
may I
may day
may duke
may it please you
may queen
may tree
may-apple
may-bug
may-bush
may-butter
may-day
may-dew
may-flowering tulip
may-fly
may-game
may-lady
may-lord
may-woon
mayfair tan
mayor-elect
mazel tov
maze-gane
mazel tov
mazer tree
mcm1io n9p8y9r lilglhut
me-too
me-tooism
me-ward
mea culpa
meadow anemone
meadow barley
meadow beauty
meadow bell
meadow bird
meadow brook
meadow brown
meadow cabbage
meadow campion
meadow chicken
meadow chickweed
meadow clover
meadow crake
meadow cress
meadow crocus
meadow crowfoot
meadow cup
meadow death camass
meadow fern
meadow fescue
meadow foxtail
meadow gowan
meadow grass
meadow grasshopper
meadow green
meadow hen
meadow land
meadow lark
meadow lily
meadow moor
meadow mouse
meadow mushroom
meadow mussel
meadow nematode
meadow nuts
meadow nymph
meadow orchis
meadow ore
meadow parsnip
meadow pea
meadow peat
meadow pine
meadow pink
meadow pipit
meadow queen
meadow reed grass
meadow rice grass
meadow rue
meadow saffron
meadow sage
meadow salsify
meadow saxifrage
meadow scabish
meadow snipe
meadow soft grass
meadow sorrel
meadow spear grass
meadow titling
meadow vetchling
meadow vole
meadow-beauty family
meadow-brown
meadow-sweet
meadows and pastures
meager diet
meaking iron
meal beetle
meal moth
meal offering
meal pennant
meal plum
meal snout moth
meal ticket
mean-spiritedness
mean-square error
mean-time clock
mean-tone tuning
mean-witted
meander belt
meander line
meandering stream
means of access
means of carrying
means of conveyance
means of dealing
means of production
means of transporting
means test
means to an end
meantone system
measles vaccine
measure against
measure depth
measure for measure
measure line
measure of my days
measure off
measure out
measure signature
measure swords
measure swords with
measure time
measure up
measure up to
measure your length
measure zero
measurement cargo
measurement of variables
measurement ton
measuring cup
measuring device
measuring glass
measuring machine
measuring rod
measuring stick
measuring wheel
measuring worm
meat ax
meat block
meat breakfast
meat by-product
meat chopper
meat cleaner
meat eater
meat fly
meat grinder
meat loaf
meat market
meat offering
meat packer
meat pie
meat preserver
meat saw
meat slicer
meat stew
meat tea
meat thermometer
meat-eater
meat-eating
meat-fed
meat-hungry
meat-packing
meato-
mechan-
mechanic's lien
mechanical advantage
mechanical aid
mechanical aptitude
mechanical arts
mechanical binding
mechanical bird
mechanical device
mechanical drawing
mechanical engineer
mechanical engineering
mechanical equivalent of heat
mechanical heart
mechanical impedance
mechanical instrument
mechanical man
mechanical means
mechanical metallurgy
mechanical piano
mechanical refrigeration
mechanical suspension
mechanical telephone
mechanical tissue
mechanical twin
mechanical vector
medicinal herbs
medicinal leech
medicinal oil
medicine animal
medicine bag
medicine ball
medicine case
medicine chest
medicine dance
medicine dropper
medicine glass
medicine lodge
medicine man
medicine monger
medicine shop
medicine show
medicine tree
medicine wolf
medico-
medico-legal medicine
medieval latin
medieval literature
medieval mode
medio-
medio-passive
meditate over
meditate upon
mediterranean flour moth
mediterranean fruit fly
medium artillery
medium bomber
medium frequency
medium of exchange
medium of transportation
medium quarto
medium shot
medium wave
medium-dated
medium-rare
medium-sized
medley cloth
medley of colors
medley race
medley relay
medulla oblongata
medulla oblongatas
medullae oblongatae
medullary ray
medullary sheath
medusa bud
medusa's head
meed of praise
meek soul
meek-browed
meek-eyed
meek-eyed Morn
meek-minded
meek-spirited
meerschaum enameler
meet a bet
meet adversity
meet an obligation
meet and right
meet around the conference table
meet boldly
meet eyeball to eyeball
meet face to face
meet halfway
meet hand-to-hand
meet head-on
meet her
meet one's end
meet requirements
meet squarely
meet the expense of
meet the eye
meet the gaze
meet up with
meet with
meet with a loss
meet with approval
meet with attention
meet with foul play
meet with success
meet you at every turn
meet your Maker
meet your Waterloo
meet your commitments
meet your death
meet your fate
meet your obligations
meet your wishes
meeting house
meeting of minds
meeting place
meeting rail
meeting-house
meeting-place
meetone's end
meetyour end
mega-
megal-
megalithic tomb
megalo-
megaloblastic anaemia
megavolt-ampere
megawatt-hour
mein Herr
meiwa kumquat
melamine resin
melan-
melancholia attonita
melancholia hypochondriaca
melancholia religiosa
melano-
melanocyte-stimulating hormone
melba toast
melegueta pepper
melic grass
melic poetry
melilite-basalt
mell-doll
mell-supper
mellow wisdom
mellow-breathing
mellow-colored
mellow-deep
mellow-eyed
mellow-flavored
mellow-lighted
mellow-looking
mellow-mouthed
mellow-ripe
mellow-tasted
mellow-tempered
mellow-toned
melodic interval
melodic line
melodic minor
melodic minor scale
melody part
melon aphid
melon apple
melon beetle
melon cactus
melon caterpillar
melon fly
melon foot
melon loco
melon louse
melon moth
melon pear
melon seed
melon shell
melon shrub
melon thistle
melon tree
melon worm
melon-bulb
melon-faced
melon-formed
melon-laden
melon-leaved
melon-shaped
melon-yellow
melt away
melt down
melt in tears
melt in the air
melt into
melt into one
melt like snow
melt the heart
melting mood
melting point
melting pot
melton cloth
mem-sahib
member bank
member in good standing
member of the bar
member of the human race
member of the intelligentsia
members in Christ
members of the bar
membrana propria
membrana serosa
membrana tympana
membrane bone
membranous labyrinth
membranous labyrinth
memento mori
mendel's law
mendicant friar
mendicant order
mendoza beaver
menhaden boat
menhaden oil
mening-
meningo-
meningo-osteophlebitis
meno mosso
meno-
menopausal arthritis
mens rea
mens sana in corpore sano
menstrual discharge
menstrual epact
menstrual epilepsy
menstrual equation
menstrual flow
menstrual flux
mensural music
mensural notation
mental acquisitiveness
mental act
mental age
mental alertness
mental alienation
mental association
mental attitude
mental balance
mental blankness
mental blindness
mental block
mental body
mental capacity
mental case
mental chemistry
mental climate
mental composure
mental confusion
mental cruelty
mental cultivation
mental culture
mental defectiveness
mental deficiency
mental derangement
mental disease
mental disorder
mental weakness
mentally blind
mentally defective
mentally defective personality
mentally deficient
mentally handicapped
mentally ill
mentally retarded
mentally sick
mentally sound
menteur a triple etage
menthane group
mention confidentially
mention in passing
mention privately
mention to
mentioned in dispatches
mento-
menue viande
meperidine hydrochloride
mer-
mercantile agency
mercantile business
mercantile economy
mercantile law
mercantile marine
mercantile paper
mercantile system
mercapto group
mercapto radical
mercapto-
mercator projection
merchant adventurer
merchant bank
merchant banker
merchant flag
merchant fleet
merchant guild
merchant marine
merchant navy
merchant prince
merchant ship
merchant venturer
merchant-adventurer
merchant-tailor
merchant-venturer
merci beaucoup
mercur-
mercurial barometer
mercurial mind
mercurial ointment
mercurial telescope
mercuric chloride
mercuric oxide
mercuric subsulfate
mercuric sulfide
mercuric sulphide
mercurous chloride
mercury arc
mercury barometer
mercury bath
mercury bichloride
mercury boiler
mercury cell
mercury chloride
mercury cyanide
mercury dichloride
mercury fulminate
mercury iodide
mercury lamp
mercury mass
mercury oxide
mercury perchloride
mercury poisoning
mercury subchloride
mercury sulfide
mercury sulphide
mercury switch
mercury thiocyanate
mercury weed
mercury-arc lamp
mercury-arc rectifier
mercury-discharge lamp
mercury-vapor detector
mercury-vapor lamp
mercury-vapor tube
mercury-vapor turbine
mercury-vapour lamp
mercy flight
mercy killer
mercy killing
mercy seat
mercy stroke
mercy-seat
mere caricature
mere chance
mere child
mere child's play
mere counterfeit
mere existence
mere externals
mere facade
mere farce
mere few
mere hint
mere noise
mere nothing
mere notion
mere rhetoric
mere scratch
mere shadow
mere show
mere skin and bones
mere subsistence
mere talk
mere theory
mere things
mere tropism
mere wreck
merely exist
merely glimpsed
merely nominal
merely surface
merge in
merge into
meridian angle
meridian circle
meridian of life
meridian section
merit badge
merit rate
merit system
merit-monger
mermaid weed
mermaid's purse
mero cabrilla
mero-
merocrine gland
meromorphic function
merry as a cricket
merry as a grig
merry chase
merry dancers
merry man
merry men
merry-andrew
merry-andrewism
merry-andrewize
merry-eyed
merry-faced
merry-go-round
merry-hearted
merry-make
merry-making
merry-meeting
merry-minded
merry-singing
merry-smiling
merry-totter
mes-
mescal bean
mescal button
mescal buttons
mescal maguey
mesh bag
mesh connection
mesh knot
meshing-spur gear
mesityl oxide
mesmeric sleep
mesne lord
meso-
mesoxalyl-urea
mesquite grass
mesquite gum
mess about
mess about with
mess around
mess around with
mess beef
mess call
mess gear
mess hall
mess in
mess jacket
mess kit
mess pork
mess sergeant
mess steward
mess up
mess with
mess-john
metal-cleaning
metal-coated
metal-covered
metal-cutting
metal-decorated
metal-drilling
metal-drying
metal-edged
metal-embossed
metal-forged
metal-framed
metal-free phthalocyanine
metal-grinding
metal-jacketed
metal-lined
metal-lithography
metal-melting
metal-perforating
metal-piercing
metal-shaping
metal-sheathed
metal-slitting
metal-slotting
metal-studded
metal-testing
metal-tipped
metal-trimming
metallic bond
metallic conduction
metallic luster
metallic soap
metallic thermometer
metallic wood-boring beetle
metallo-
metallo-organic
metallurgical chemistry
metallurgical engineer
metallurgical engineering
metallurgical microscope
metamict substance
metamorphic cycle
metamorphic rock
metanil yellow
metaphorical meaning
metaphorical sense
metaphosphoric acid
metaphysical idealism
metaphysical poetry
methyl bromide
methyl cellulose
methyl chloride
methyl chlorocarbonate
methyl chloroformate
methyl cyanide
methyl ester
methyl ether
methyl ethyl ketone
methyl green
methyl group
methyl isobutyl ketone
methyl methacrylate
methyl methane
methyl oleate
methyl orange
methyl phenol
methyl phenyl ether
methyl propyl ketone
methyl radical
methyl red
methyl rubber
methyl salicylate
methyl styryl ketone
methyl sulfate
methyl violet
methyl yellow
methylacetic acid
methylated spirit
methylated spirits
methylene azure
methylene blue
methylene chloride
methylene dichloride
methylene group
methylene iodide
methylene radical
methylidyne group
methylidyne radical
methy1isobutenyl ketone
methylphenylcarbinyl acetate
methylrosaniline chloride
methylthionine chloride
methy1triti-nitro
meticulous attention
meting out
metopon hydrochloride
metr-
metre-candle
metre-kilogram-second
metric carat
metric centner
metric grain
metric hundredweight
metric space
metric system
metric ton
metric topology
metrical accent
metrical foot
metrical form
metrical group
metrical pattern
metrical psalm
metrical unit
metro-
meteromone mark
metronomic mark
metropolitan area
metropolitan county
metropolitan district
meum et tuum
mew gull
mew up
mewling infant
mexican hairless
mexican spanish
mezankorrie moth
mezereon family
mezza voce
mezzamine floor
mezzanine floor
mezzanine story
mezzo forte
mezzo piano
mezzo staccato
mezzo-mezzo
mezzo-relievo
mezzo-relievos
mezzo-rilievi
mezzo-rilievo
mezzo-soprano
mezzo-soprano clef
mi-
mia mia
mica condenser
mica diorite
mica schist
mice pea
mice pink
michaelmas daisy
miching malicho
mickey finn
mickey mouse
mickle-mouthed
micn1n o9p8y9r iilglhutm
micro-
micro biology
micro-
micro-aerophile
micro-aerophilic
micro-audiphone
micro-form
micro-instrumentation
micro-movie
micro-needle
micro-stress
microcosmic salt
microcytic anemia
microfilm plotter
microfilm reader
microfilm viewer
micrometer caliper
micrometer calliper
micrometer drum
micrometer gauge
micrometer head
micrometer screw
micrometrically precise
microscopic distinction
microwave diathermy
microwave diathermy machine
microwave height finder
microwave linear accelerator
microwave link
microwave mixer
microwave oven
microwave radar
microwave relay station
microwave spectroscope
microwave spectroscopy
microwave spectrum
mid air
mid gear
mid leg
mid mashie
mid off
mid position
mid spoon
mid wicket off
mid wicket on
mid-
mid-Victorian
mid-act
mid-age
mid-aged
mid-air
mid-arctic
mid-back
mid-block
mid-body
mid-breast
mid-career
mid-carpal
mid-central
mid-century
mid-channel
mid-chest
mid-continent
mid-course
mid-court
mid-crowd
mid-current
mid-diastolic
mid-dish
mid-distance
mid-earth
mid-eighteenth
mid-feather
mid-field
mid-flight
mid-forty
mid-front
mid-gray
mid-gut
mid-heaven
mid-hour
mid-ice
mid-incisor
mid-kidney
mid-lake
mid-length
military attache
military band
military camp
military campaign
military chaplain
military cloak
military court
military dictatorship
military engineer
military engineering
military establishment
military flight
military government
military governor
military honours
military insignia
military intelligence
military judge
military law
military man
military march
military mast
military medal
military medicine
military music
military obligation
military officer
military operation
military operations
military orchid
military pace
military pilot
military police
military police corps
military policeman
military reserves
military rocket
military school
military science
military service
military spirit
military step
military subdivision
military tactics
military top
military training
military transport
military unit
military-intelligence man
military-minded
militate against
milk a he-goat into a sieve
milk a scene
milk and honey
milk and water
milk bar
milk bench
milk brother
milk can
milk cart
milk checker
milk chocolate
milk cow
milk fever
milk float
milk glass
milk leg
milk of almonds
milk of bismuth
milk of human kindness
milk of magnesia
milk pail
milk powder
milk products
milk pudding
milk punch
milk purslane
milk route
milk run
milk shake
milk sherry
milk sickness
milk snake
milk stout
milk sugar
milk tester
milk the ram
milk thistle
milk toast
milk tooth
milk train
milk vetch
milk willow-herb
milk-and-water
milk-and-wateriness
milk-and-waterish
milk-and-waterism
milk-and-watery
milk-bearing
milk-blended
milk-borne
milk-breeding
milk-condensing
milk-cooling
milk-curdling
milk-drying
milk-faced
milk-fed
milk-giving
milk-hued
milk-livered
milk-punch
milk-tested
milk-testing
milk-toast
milk-tooth
milk-warm
milk-washed
milk-white
milk-yielding
milking machine
milking stool
milkwort family
milkwort family
milky disease
milky way
milky way galaxy
mill agent
mill around
mill beetle
mill bill
mill cake
mill chisel
mill cinder
mill construction
mill end
mill engineer
mill engineering
mill fever
mill hole
mill outlet
mill run
mimosa-leaved
min min
mince it
mince pie
mince the truth
mince words
mince-pie
minced meat
minced pie
minced-pie
mincing horse
mincing steps
mind blindness
mind body
mind cure
mind deafness
mind like a blotter
mind like a sieve
mind of your own
mind out
mind overthrown
mind reader
mind reading
mind the store
mind unhinged
mind what you are about
mind what you are doing
mind your P's and Q's
mind your business
mind your manners
mind your own business
mind's core
mind's eye
mind-altering drug
mind-blind
mind-blindness
mind-blowing
mind-blowing drug
mind-body
mind-body problem
mind-boggler
mind-boggling
mind-changer
mind-changing
mind-curist
mind-expanding
mind-expanding drug
mind-expansion
mind-healer
mind-healing
mind-infected
mind-matter theory
mind-perplexing
mind-ravishing
mind-reader
mind-set
mind-sick
mind-stricken
mind-stuff theory
mind-torturing
mind-wrecking
mind-your-own-business
minded to
mindful of
mindful of others
mindless of
mine detector
mine examiner
mine host
mine layer
mine of information
mine of wealth
mine pig
mine ship
mine sweeper
mine thrower
mine work
mine-run
miner's anemia
miner's asthma
miner's consumption
miner's dial
miner's inch
miner's lamp
miner's lettuce
miner's lung
miner's phthisis
mineral acid
mineral black
mineral blue
mineral brown
mineral charcoal
mineral coal
mineral deposit
mineral dressing
mineral jelly
mineral kingdom
mineral oil
mineral pigment
mineral pitch
mineral processing
mineral resources
mineral salt
mineral science
mineral seal oil
mineral sperm oil
mineral spirits
mineral spring
mineral tallow
mineral tar
mineral water
mineral waters
mineral wax
mineral wool
mineral world
mineral-bearing material
mineralogical chemistry
ming tree
mingle with
mingle-mangle
mingle-mangleness
mingle-mangler
mini-
mini-specs
miniature camera
miniature golf
miniature painting
miniature photography
miniature pinscher
miniature poodle
miniature schnauzer
minie ball
minimal art
minimal pair
minimax theorem
minimum access programming
minimum flying speed
minimum free form
minimum lending rate
minimum thermometer
minimum wage
minimum-security prison
minimum-wage law
mining claim
mining engineer
mining engineering
mining geology
minion of the law
minister of music
minister of state
minister of the Gospel
minister plenipotentiary
minister resident
minister to
minister without portfolio
minister-general
ministering angel
ministering spirits
ministers resident
ministers without portfolios
mink frog
mink-ranching
minny bass
mino bird
minole-mangle
minor axis
minor basilica
minor canon
minor chord
minor coin
minor criticism
minor detail
minor details
minor element
minor in
minor interval
minor key
minor league
minor matter
minor mode
minor operation
minor operations
minor order
minor orders
minor party
minor penalty
minor piece
minor planet
minor poet
minor premise
minor premiss
minor role
minor scale
minor second
minor seminary
minor seventh chord
minor suit
minor surgery
minor tenace
minor term
minor triad
minor wrong
minor-league
minor-leaguer
minority carrier
minority group
minority interests
minority leader
minority opinion
minority position
minority prejudice
minority voice
minstrel show
minstrel song
mint bush
mint camphor
mint condition
mint family
mint geranium
mint julep
mint leaves
mint of money
mint sauce
mint stamp
minus acceleration
minus sight
minus sign
minus some buttons
minuscule script
minute attention
minute bell
minute book
minute drops
minute glass
minute gun
minute hand
minute man
minute mark
minute of arc
minute quantity
minute steak
minute thing
minute things
minuteness of detail
mio-
mirabile dictu
miracle drug
miracle drugs
miracle man
miracle play
miracle player
miracle wheat
miracle-breeding
miracle-proof
miracle-worker
miracle-working
mire down
mire dromble
mire duck
miriti palm
mirror carp
mirror image
mirror image, the
mirror of the mind
mirror symmetry
mirror writer
mirror writing
mirror-faced
mirror-writing
mirth-inspiring
mirth-loving
mirth-making
mirth-marring
mirth-moving
mirth-provoking
mis-
mis-aver
mis-censure
mis-center
mis-citation
mis-cite
mis-con
mis-copy
mis-cue
mis-eat
mis-enter
mis-entry
mis-event
mis-hallowed
mis-hear
mis-hearer
mis-heed
mis-hit
mis-hold
mis-humility
mis-lie
mis-mark
mis-meet
mis-pen
mis-rely
mis-say
mis-season
mis-seat
mis-see
mis-seek
mis-seem
mis-send
mis-sense
mis-serve
mis-set
mis-shape
mis-shapen
mis-sheathed
mis-ship
mis-shod
mis-sing
mis-solution
mis-sort
mis-sound
mis-space
mis-speak
mis-spell
mis-spend
mis-start
mis-state
mis-steer
mis-step
mis-stitch
mis-stop
mis-stroke
mis-style
mis-succeeding
mis-sue
mis-suit
mis-sway
mis-swear
mis-sworn
mis-tilled
mis-tune
mis-union
mis-word
misbehave yourself
miscarriage of justice
miscellaneous drugs
misch metal
mischief-loving
mischief-maker
mischief-making
mischief-working
mischio marble
misconduct yourself
misdemean yourself
mise en sc
mise-en-scene
mise-enscene
miserable lot
misery in the head
misfortune- difficulty
misfortune-proof
mish-mash
miso soup
miso-
misoshiru soup
misplaced modifier
misprision of felony
misprision of treason
misread the case
misread the situation
miss a cue
miss an opportunity
miss by a mile
miss fire
miss nothing
miss on the low side
miss out
miss stays
miss the boat
miss the bus
miss the chance
miss the mark
miss the market
miss the truth
miss your aim
miss your footing
miss your mooring
miss-fire
missa cantata
missal letter
missal stand
missel bird
missel thrush
missel tree
missel-bird
missel-thrush
missile engineer
missile engineering
missile guidance
missile man
missile program
missile project
missile research
missile science
missile technology
missile testing
missile warfare
missing link
mission accomplished
mission furniture
mission grass
missionaries apostolic
missionary alphabet
missionary apostolic
missionary position
missionary rector
missionary salesman
missionary weed
misspeak yourself
mist blue
mist concentrate sprayer
mist gray
mist-blotted
mist-blurred
mist-clad
mist-covered
mist-enshrouded
mist-exhaling
mist-impelling
mist-laden
mist-shrouded
mist-wet
mist-wreathen
mistle thrush
mistletoe bird
mistletoe cactus
mistress-piece
mistress-ship
misty rain
misty-eyed
misty-moisty
misunderstand one another
misuse of words
mitch board
mitch-board
miter box
miter box saw
miter cap
miter clamp
miter gear
miter jib
miter joint
miter saw
miter square
miter-clamped
miter-jointed
mitered jib
mitered sail
mithridate mustard
mitigating circumstances
mitis casting
mitis metal
mitral incompetence
mitral insufficiency
mitral stenosis
mitral valve
mitre block
mitre box
mitre joint
mitre square
mitre-jointed
mitre-wort
mitten money
mix Up
mix it up
mix it up with
mix up
mix with
mix yourself up with
mix-hellene
mix-up
mixed acid
mixed bag
mixed blessing
mixed bud
mixed cadence
mixed chorus
mixed crystal
mixed decimal
mixed doubles
mixed drink
mixed drinks
mixed economy
mixed farming
mixed foursome
mixed grill
mixed language
mixed larceny
mixed marriage
mixed metaphor
mixed nerve
mixed number
mixed race
mixed times
mixed up
mixed-blood
mixed-up
mixer tube
mixing faucet
mixing ratio
mixing room
mixing valve
mixo-
mixolydian mode
mixture curve
mixture stop
mixy-maxy
mizen-mast
mizzen royal
mizzen sail
mizzen skysail
mizzen stay
mizzen staysail
mizzen-royal brace
mizzen-royal lift
mizzen-royal mast
mizzen-royal stay
mizzen-royal staysail
mizzen-royal yard
mizzen-skysail brace
mizzen-skysail lift
mizzen-skysail mast
mizzen-skysail stay
mizzen-skysail yard
mizzen-topgallant brace
mizzen-topgallant lift
mizzen-topgallant mast
mizzen-topgallant sail
mizzen-topgallant stay
mizzen-topgallant staysail
mizzen-topgallant yard
mizzen-topmast
mizzen-topmast stay
mizzen-topmast staysail
mizzen-topsail lift
mizzen-topsail yard
mks units
mmHg
mnemonic device
mob law
mob rule
mob tactics
mob, the
mob-cap
mob-minded
mobile antenna
mobile call
mobile camera
mobile command post
mobile home
mobile library
mobile militia
mobile radio
mobile tactics
mobile trailer unit
mobile transmitter
mobile unit
mobile vulgus
mobile warfare
moccasin flower
moccasin plant
moccasin telegraph
mocha stone
mochi wood
mock chicken
mock court
mock danger
modern generation
modern greats
modern hebrew
modern jazz
modern language
modern logic
modern man
modern-bred
modern-built
modern-looking
modern-made
modern-practiced
modern-sounding
moderne cut
modernist verse
modest price
modest violet
modi operandi
modi vivendi
modock wool
modular arithmetic
modular assembly
modular production
modulation monitor
modulus of elasticity
modulus of rigidity
modulus of volume elasticity
modus operandi
modus ponens
modus tollens
modus vivendi
moeso-goth
mogul base
mogul locomotive
mohair rug
mohawk weed
mohs' scale
moire pattern
moist gangrene
moisten your whistle
moisture equivalent
moisture meter
moisture-absorbent
moisture-resisting
moko-moko
mol wt
molar conductance
molar conductivity
molar tooth
molar volume
molar weight
molasses grass
mold fungus
mold loft
mold of perfection
moldboard plow
molded base line
molded breadth
molded depth
molded displacement
molded draft
molded form
molded line
molded plastic
molded salad
molding board
molding book
molding compounds
molding edge
molding plane
moldy nose
mole catcher
mole crab
mole cricket
mole drain
mole drainage
mole drainer
mole fraction
mole gray
mole plow
mole rat
mole trap
mole-blind
mole-blindedly
mole-catching
mole-eyed
mole-head
mole-hill
mole-sighted
molecular beam
molecular biology
molecular distillation
molecular film
molecular formula
molecular heat
molecular mass
molecular physics
molecular ray
molecular sieve
molecular volume
molecular weight
moll Hern
molluscum contagious
molluscum epitheliate
mollweide protection
molly maguire
molly washdish
molly-coddle
molotov cocktail
molybdenum steel
molybdenum trioxide
molybdic anhydride
molybdic oxide
moment of force
moment of inertia
moment of momentum
moment of stability
moment of truth
moment-area method
momentary success
momentary triumph
momentary-contact switch
momentum pump
momentum valve
mon cher
mon semblable
mon-
mon-khmer
monad deme
monaural system
monel metal
monesia bark
monetary arithmetic
monetary unit
money belt
money box
money broker
money changer
money changing
money chest
money clip
money cowry
money dealer
money dealing
money down
money getter
money going out
money illusion
money in hand
money market
money matter
money matters
money of account
money of necessity
money order
money player
money saver
money spider
money teller
money to burn
money wages
money's worth
money's-worth
money-bag
money-bloated
money-bound
money-box
money-breeding
money-changer
money-earning
money-getting
money-grasping
money-grub
money-grubbing
money-hungry
money-lender
money-loving
money-mad
money-maker
money-making
money-raising
money-saving
money-spelled
money-spinner
money-wort
moneyed capital
moneyed corporation
moneyed man
mong corn
mongolian idiot
mongoloid idiocy
mongoloid idiot
monkey-faced owl
monkey-god
monkey-pot
monkey-rigged
monkey-tail valve
monkey-tailed
monkeying around
mono carpellary
mono carpic
mono carpous
mono cephalous
mono ceros
mono chord
mono clinal
mono clinic
mono clinous
mono cyclic
mono-
mono-ideic
mono-ideism
mono-ideistic
mono-iodo
mono-iodohydrin
mono-iodomethane
mono-ion
monoamine oxidase
monobasic sodium phosphate
monochloro-
monochloroacetic acid
monochromatic film
monochromatic illuminator
monoclinic system
monocytic leukemia
monoenergetic neutron
monophonic system
monopolistic competition
monopolize the conversation
monopolize the thoughts
monopolize your attention
monopoly value
monorange speaker
monosodium glutamate
monostable circuit
monoxy-
monroe doctrine
mons pubis
mons veneris
monsoon low
monster-bearing
monster-breeding
monster-eating
monster-guarded
monster-taming
monster-teeming
monstrous lie
mont-de-piete
mont-de-pit
montan wax
montani semper liberi
monte bank
monte-jus
montes veneris
month after month
month in month out
month of Sundays
month's mind
monthly epact
monthly investment plan
monthly meeting
monthly payments
monument plant
monumental mason
monumental record
monumental sculpture
mooch around
mooch off
mood music
mood phrase
mood swing
moon around
moon base
moon blindness
moon daisy
moon dog
moon goddess
moon goddesses
moon jelly
moon jellyfish
moon knife
moon letter
moon orbit
moon pillar
moon rat
moon ray
moon ship
moon station
moon-blanced
moon-blasted
moon-blasting
moon-blind
moon-born
moon-bright
moon-browed
moon-calf
moon-charmed
moon-crowned
moon-culminating
moon-dial
moon-eye
moon-eyed
moon-faced
moon-fern
moon-fish
moon-flower
moon-gathered
moon-gazing
moon-glittering
moon-god
moon-gray
moon-led
moon-loved
moon-mad
moon-made
moon-man
moon-raised
moon-shaped
moon-stricken
moon-struck
moon-taught
moon-tipped
moon-touched
moon-trodden
moon-white
moon-whitened
mooneye cisco
moonlight blue
moonlight flit
moonlight requisition
moonlight school
moonseed family
moor besom
moor blackbird
moor buzzard
moor cock
moor grass
moor hen
moor myrtle
moor-bred
moor-cock
moor-fowl
moor-hen
moor-pout
mooring buoy
mooring chock
mooring harness
mooring line
mooring mast
mooring pendant
mooring pennant
mooring rack
mooring screw
mooring shackle
mooring swivel
mooring telegraph
mooring tower
moose call
moose elm
moose fly
moose-ear
moose-misse
moot case
moot court
moot hall
moot point
moot-hill
moot-house
moot-stow
mootchie wood
mop and mow
mop bucket
mop pail
mop up
mop up the floor with
mop-up
mope-eyed
mopped up
mopper-up
moppers-up
mopping up
mopping-up
mopstick rail
mora hair
morainal drift
moral badness
moral censor
moral certainty
moral climate
moral code
moral courage
moral delinquency
moral excellence
moral faculty
moral fiber
moral flaw
moral goodness
moral hazard
moral insanity
moral lesson
moral obligation
moral of the story
moral philosophy
moral pollutedness
moral pollution
moral precept
moral principles
moral rectitude
moral rightness
moral sense
moral strength
moral support
moral theology
moral turpitude
moral victory
moral virtue
moral weakness
morality play
moralize upon
morally corrupt
morally polluted
morass ore
moray eel
morbid anatomy
morbid anxiety
morbid curiosity
morbid drive
morbid excitability
morbid growth
morbid psychology
morbid sensibility
morbidity rate
morbidly curious
morbidly sensitive
morbus Gallicus
mordant dye
mordant rouge
more and more
more dead than alive
more desirable
more dict
more distant
more frightened than hurt
more heat than light
more in sorrow than in anger
more or less
more sol
more suo
more than a match for
more than doubtful
more than enough
more than ever
more than expected
more than half
more than meets the ear
more than meets the eye
more than one
more than you bargained for
more than you can afford
more than you can tell
more truth than poetry
morgan le fay
morganatic marriage
moriche palm
morn star
morning after
morning campion
morning coat
morning devotions
morning dress
morning glory
morning glory seeds
morning loan
morning prayer
morning prayers
morning services
morning sickness
morning star
morning time
morning twilight
morning watch
morning-breathing
morning-bright
morning-colored
morning-gift
morning-glory
morning-glory family
morning-glory sphinx
morning-tide
morning-watch
morning-winged
mornings after
morocco leather
mororation in composition
morph-
morphemic analysis
morphine meconate
morpho-
morphologic construction
morphological analogy
morphological botany
morphological individual
morphophonemic analysis
morris chair
morris dance
morris tube
morris-dance
morris-pike
morro castle
morrow-mass
morrow-tide
morse code
mort d'ancestor
mort note
mortal blow
mortal fear
mortal flesh
mortal horror
mortal mind
mortal remains
mortal sin
mortal wound
mortality committee
mortality rate
mortality table
mortally ill
mortar and pestle
mortar barrage
mortar bed
mortar board
mortar boat
mortar fire
mortar ketch
mortar-board
mortgage bond
mortgage broker
mortgage company
mortgage deed
mortgage holder
mortgage points
mortgage shark
mortgage-holder
mortgaged to the hilt
mortgagee clause
mortification of the flesh
mortification root
mortify the flesh
mortify your flesh
mortify yourself
mortise and tenon joint
mortise block
mortise chisel
mortise gauge
mortise gear
mortise joint
mortise lock
mortise-and-tenon joint
mortuary roll
mortuum vadium
mosaic binding
mosaic bold
mosaic disease
mosaic dwarf
mosaic gold
mosaic work
mosaic-drawn
mosaic-floored
mosaic-paved
moschatel family
mosey along
mosey off
mosque swallow
mosquito bar
mosquito bee
mosquito boat
mosquito fleet
mosquito hawk
mosquito net
mosquito netting
mosquito-bitten
mosquito-bred
mosquito-free
moss agate
moss animal
moss campion
moss fern
moss green
moss pink
moss rose
moss stitch
moss-back
moss-backed
moss-begrown
moss-bordered
moss-bound
moss-brown
moss-clad
moss-covered
moss-crowned
moss-gray
moss-green
moss-grown
moss-hag
moss-inwoven
moss-lined
moss-trooper
moss-woven
mossy-backed
most admired disorder
most assuredly
most certainly
most distant
most frequently
most important
most likely
most often
most recent
most reverend
most significant digit
most unkindest cut of all
most, the
most-favored-nation clause
mot d'ordre
mot juste
mother-in-law plant
mother-naked
mother-of-pearl
mother-of-pearl cloud
mother-of-pearl glass
mother-of-thousands
mother-of-thyme
mother-of-thymes
mother-sick
mother-spot
mothers superior
mothers-in-law
motion backwards
motion block
motion downward
motion forwards
motion from
motion in general
motion photomicrograph
motion picture
motion pictures
motion short of
motion sickness
motion study
motion to
motion to and fro
motion towards
motion upwards
motion work
motion-picture
motion-picture actor
motion-picture camera
motion-picture fan
motion-picture film
motion-picture photography
motion-picture projector
motion-picture show
motion-picture theater
motionless torrents
motivating force
motivation research
motivational research
motive column
motive force
motive power
motive-monger
motive-mongering
motley color

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motley fool
motley-minded
motmot blue
motmot green
motor
motor abreaction
motor ambulance
motor aphasia
motor assembler
motor builder
motor bus
motor car
motor caravan
motor coach
motor corps
motor court
motor drive
motor generator
motor hotel
motor impulse
motor inn
motor launch
motor lodge
motor lorry
motor neuron
motor oil
motor paralysis
motor park
motor pool
motor scooter
motor ship
motor torpedo boat
motor truck
motor unit
motor van
motor vehicle
motor vessel
motor-camper
motor-camping
motor-driven
motor-generator
motor-generator servo
motor-man
motor-minded
motor-mindedness
motor-ship
motor-speed control system
motorcycle race
motorcycle saddle
motorized vehicle
motorized warfare
mots justes
mottle-leaf
mottle-leaf mosaic
mottled enamel
mottled-top disease
motto kiss
motu proprio
motuca fly
moubata bug
moudy-warp
mould-board
moulding board
moulding-board
mouldy fig
moulin a paroles
mound bird
mound builder
mound maker
mound making
mound-builder
mound-building
mount Pegasus
mount an attack
mount an offensive
mount guard
mount the barricades
mount the ladder of success
mount the throne
mount up to
mount your high horse
mountain accentor
mountain adder
mountain artillery
mountain ash
mountain avens
mountain beaver
mountain bluebird
mountain bluet
mountain bracken
mountain bunch grass
mountain camellia
mountain cat
mountain chain
mountain climber
mountain cranberry
mountain creeper
mountain currant
mountain damso
mountain devil
mountain dew
mountain ebony
mountain fern
mountain fetterbush
mountain fever
mountain flax
mountain fleece
mountain foxtail
mountain fringe
mountain goat
mountain gorilla
mountain gun
mountain heath
mountain hollow
mountain holly fern
mountain laurel
mountain lilac
mountain lion
mountain mahogany
mountain maker
mountain making
mountain man
mountain maple
mountain nymph
mountain oyster
mountain parsley
mountain range
mountain redtop
mountain rice
mountain rose
mountain rosebay
mountain sage
mountain sandwort
mountain sheep
mountain sickness
mountain spleenwort
mountain starwort
mountain tent
mountain time
mountain timothy
mountain viscacha
mountain wave
mountain whitefish
mountain wind
mountain wine
mountain-built
mountain-dwelling
mountain-girdled
mountain-green
mountain-high
mountain-loving
mountain-sick
mountain-walled
mounted infantryman
mounted police
mounted policeman
mounting medium
mounting-block
mourners' bench
mourning band
mourning cloak
mourning cloak butterfly
mourning dove
mourning garment
mourning iris
mourning ring
mourning warbler
mouse barley
mouse bloodwort
mouse deer
mouse grass
mouse gray
mouse opossum
mouse out
mouse pox
mouse-brown
mouse-color
mouse-colored
mouse-colour
mouse-deer
mouse-dun
mouse-ear
mouse-ear chickweed
mouse-ear cress
mouse-ear hawkweed
mouse-early
mouse-eared
mouse-eaten
mouse-gray
mouse-hole
mouse-hunt
mouse-killing
mouse-pea
mouse-still
mousetail grass
mousetrap switch
mousing hook
mousquetaire gloves
mousseline de laine
mousseline de soie
mousseline sauce
moustache cup
mouth bow
mouth breathing
mouth footed
mouth glue
mouth harp
mouth hole
mouth honor
mouth organ
mouth piece
mouth-filling
mouth-made
mouth-organ
mouth-to-mouth
mouth-to-mouth method
mouth-to-mouth resuscitation
mouth-watering
movable feast
movable type
movable-do system
move along
move apart
move around
move aside
move away
move back
move behind
move for
move forward
move heaven and earth
move in
move in a circle
move in a groove
move in a rut
move into
move off
move on
move out
move over
move quickly
mucked up
mucking around
muckle hammer
muco-
mucoitin-sulphuric
mucoitinsulfuric acid
mucoso-
mucous colitis
mucous membrane
mucus body
mud bath
mud berth
mud dauber
mud drum
mud flat
mud heap
mud henmud house
mud house
mud lump
mud map
mud pie
mud pilot
mud pot
mud puddle
mud puppy
mud turtle
mud-bespattered
mud-built
mud-color
mud-colored
mud-exhausted
mud-fish
mud-lost
mud-roofed
mud-shot
mud-slinging
mud-splashed
mud-walled
muddle along
muddle away
muddle through
muddle-headed
muddle-minded
muddy-complexioned
muddy-mettled
mudslinging campaign
muermo family
muff coupling
muff your cue
muffin cap
muffin man
muffin pan
muffin turner
muffle color
muffle furnace
muffle kiln
muffle up
muffle-jaw
muffle-shaped
muffled drum
muffled drums
muffled tone
mug shot
mug up
mug-house
mug-up
mug-wet
muga moth
muga silk
muggy weather
mugho pine
muhammadan calendar
mui-t sai
m u i r i l l
m u i r p o o t
mulatto jack
mulatto-wood
mulberry bird
mulberry family
mulberry wine
mulberry-faced
mulct law
mule armadillo
mule chair
mule chest
mule deer
mule skinner
mule spinning
mule train
mule-fat
mule-foot
mule-headed
mule-jenny
muley axle
muley cow
muley head
muley saw
mulga grass
mulier puisne
mulier younger
mull muslin
mull over
mullein dock
mullein foxglove
mullein pink
mullet hawk
mulligan stew
multi-
multi-colour
multi-jet
multi-ply
multi-prop
multi-scene control board
multiaxial joint
multiband antenna
multichannel analyser
multiflora rose
multigrid tube
multilateral symmetry
multilateral trade
multilinear form
multipath transmission
multiphase current
multiple algebra
multiple alleles
multiple allelism
multiple allelomorph
multiple circuit
multiple connection
multiple drill
multiple factor
multiple factors
multiple fission
multiple fruit
multiple image
multiple integr
multiple integral
multiple messages
multiple myeloma
multiple neuritis
multiple party system
multiple personality
multiple projector
multiple sclerosis
multiple series
multiple shop
multiple star
multiple store
multiple telegraph
multiple thread
multiple voting
multiple warhead
multiple-beam interferometer
multiple-choice
multiple-clutch
multiple-die
multiple-disk
multiple-disk clutch
multiple-dome
multiple-drill
multiple-feed closed loop
multiple-line
multiple-missile warhead
multiple-pass
multiple-series
multiple-speed
multiple-threaded
multiple-toothed
multiple-tuned
multiple-unit car
multiple-valued
multiplex circuit
multiplex receiver
multiplex telegraphy
multiplex transmission
multiplex tube
multiplication sign
multiplication table
multiplicative axiom
multiplicative group
multiplicative identity
multiplicative inverse
multiplier channels
multiplier phototube
multiply and replenish the earth
multiply by four
multiply by three
multiply by two
multiplying-glass
multipurpose plane
multipurpose tube
multistage flight
multistage rocket
multistep hydroplane
multivalent vaccine
multum in parvo
mum's the word
mumble-the-peg
mumblety-peg
mumbly-peg
mumbo jumbo
mumbo jumbos
mumbo-jumbo
mummy apple
mummy brown
mummy case
mummy chamber
mummy wheat
mummy-brown
mummy-cloth
mumping day
mumps meningitis
mundane astrology
mundane house
mung bean
municipal bond
municipal building
municipal corporation
municipal engineer
municipal securities
munition armor
munitions of war
munitions plant
mural coronet
mural crown
mural painting
murder en masse
murder the King's English
murder the Queen's English
murder wholesale
murder will out
murderous frenzy
murderous insanity
murexide reaction
murexide test
muriatic acid
murillo bark
murine opossum
murmur diphthong
murphy bed
murphy button
murrhine glass
mus b
muscae volitantes
muscle beach
muscle cell
muscle column
muscle fiber
muscle fibre
muscle in
muscle maker
muscle making
muscle man
muscle plasma
muscle power
muscle sense
muscle tissue
muscle-bound
muscle-bound between the ears
muscle-building
muscle-celled
muscle-kneading
muscle-tired
muscovy duck
muscul-
muscular disease
muscular dystrophy
musculo-
musculocutaneous nerve
muse on
muse on other things
muse over
muse upon
musette bag
museum beetle
museum piece
mush rot
mush through
mush up
mush-kinu
mushroom anchor
mushroom cloud
mushroom sauce
mushroom system
mushroom-colored
mushroom-grown
mushroom-shaped
music Muses
music arrangement
music box
music buff
music centre
music critic
music director
music division
music drama
music fan
music festival
music form
music hall
music in space
music lover
music lyre
music maker
music notation
music of the spheres
music paper
music passage
music patron
music patrons
music performance
music piece
music program
music roll
music room
music school
music score
music speech
music stand
music style
music theme
music theory
music wire
music-copying
music-drawing
music-flowing
music-footed
music-like
music-loving
music-mad
music-making
music-panting
music-stirring
music-tongued
musica falsa
musica ficta
 musica mensurata
musical accent
musical box
musical chairs
musical comedy
musical copy
musical ear
musical flair
musical glasses
musical instrument
musical notation
musical note
musical ornament
musical part
musical passage
musical performance
musical phrase
musical piece
musical program
musical quality
musical revue
musical saw
musical scale
musical score
musical sense
musical sentence
musical sound
musical stage
musical suite
musical talent
musical theater
musical thought
musically inclined
musico-
musicogenic epilepsy
musing on the past
musique concr
musk ambrette
musk bag
musk deer
musk duck
musk hog
musk mallow
musk melon
musk orchid
musk ox
musk parrot
musk plant
musk rose
musk turtle
musk-cat
musk-cod
musk-deer
musk-duck
musk-ox
musk-rat
musk-root
musk-tree
musk-wood
muskeg moss
musket arrow
muskrat weed
muskus grass
muslin clipper
muslin delaine
musquash root
muss up
mussaenda coffee
mussed up
mussel bill
mussel crab
mussel-shell
must item
mustache cup
mustache monkey
mustang grape
mustard and cress
mustard beetle
mustard family
mustard gas
mustard greens
mustard oil
mustard plaster
mustard sauce
mustard seed
mustard-seed coal
muster courage
muster in
muster on
muster out
muster roll
muster up
muster your resources
muster-out
mustering out
mut dash
mutamur in illis
mutated form
mutation fox
mutation mink
mutation pressure
mutation stop
mutatis mutandis
mutato nomine
mute swan
mute witness
muted ecstasy
muth-labben
muto-
mutton bird
mutton cane
mutton chop
mutton chops
mutton grass
mutton snapper
mutton spanker
mutton tallow
mutton-chop
mutton-fish
mutton-head
mutton-legger
muttonchop whiskers
mutual admiration
mutual affinity
mutual agreement
mutual aid
mutual approach
mutual assistance
mutual attraction
mutual company
mutual concession
mutual fund
mutual impedance
mutual inductance
mutual induction
mutual insurance
mutual regard
mutual replacement
mutual repulsion
mutual savings bank
mutual support
mutual supportiveness
mutual transfer
mutual understanding
myriad-minded
myricyl alcohol
myrio-
myristic acid
myrmec-
myrmeco-
myrobalan family
myrrh-tree
myrtle berry
myrtle bird
myrtle grass
myrtle green
myrtle-berry
myrtle-leaved
mystery clock
mystery grass
mystery of mysteries
mystery play
mystery religion
mystery story
mystery tour
mystical experience
mystical intuition
mystical theology
mystico-
mystico-allegoric
mystico-religious
mythical lore
mythical monster
mythical monsters
mythico-
mythico-historical
mythico-philosophical
mythico-romantic
mytho-
myxo-
n number
n'est-ce pas
n-
n-dimensional
n-ple
n-ply
n-tuple
n-tuple linear algebra
n-tuply
n-type
nCi
nF
nW
na zdorov'e
na-dene
nacreous cloud
nag at
nag-tailed
nagaed wood
nagami kumquat
nail bed
nail bit
nail bone
nail brush
nail caster
nail down
nail enamel
nail file
nail filer
nail filing
nail fold
nail hole
nail maker
nail making
nail molder
nail polish
nail puller
nail set
nail up
nail varnish
nail violin
nail water
nail your colors to the mast
nail-bearing
nail-biting
nail-clipping
nail-cutting
nail-head
nail-headed
nail-paring
nail-pierced
nail-shaped
nail-sick
nail-studded
nail-tailed
nailed down
nailer joist
nailhead rust
nailhead spar
nailhead spot
naive realism
nake-footed
naked as a jaybird
naked as a needle
naked as a worm
naked as my nail
naked as the day one was born
naked as the day you were born
naked eye
naked fact
naked floor
naked force
naked ladies
naked oat
naked singularity
naked smut
naked steel
naked to
naked-armed
naked-bladed
naked-earred
naked-eye
naked-eyed
naked-flowered
naked-fruitled
naked-seeded
naked-stalked
naked-tailed
nalidixic acid
namas kar
namby-pambical
namby-pambics
namby-pambies
namby-pambiness
namby-pamby
namby-pamblyish
namby-pambyism
namby-pambyness
name and address
name day
name for office
name names
name of the game
name over
name part
name plate
name tape
name to conjure with
name-caller
name-calling
name-child
name-day
name-drop
name-dropped
name-dropper
name-dropping
names of
namma hole
nand pearl
nankeen bird
nankeen lily
nanny goat
nanny plum
nanny-goat
nano-
nap hand
napa leather
naphth-
naphtha distiller
naphtha launch
naphthene-base oil
naphthol black
naphthol blue black
naphthol yellow
naphthyl group
naphthyl methyl ketone
naphthyl radical
naphthylamine black
napier's bones
napkin pattern
napkin ring
narcissus fly
narco-
narcotic injection
narcotic shot
narcotic stupor
narcotic trance
narcotico-acrid
narcotico-irritant
narcotics addict
narcotics agent
narcotics pusher
narcotics smuggling
narcotics traffic
nark it
narkul grass
narra amarilla
narra blanca
narra encarnada
narrative poem
narrative poetry
narrow boat
narrow brush
narrow down
narrow escape
narrow gauge
narrow house
narrow margin
narrow means
narrow place
narrow seas
narrow squeak
narrow sympathies
narrow the gap
narrow views
narrow-backed
narrow-billed
narrow-bladed
narrow-brained
narrow-breasted
narrow-celled
narrow-chested
narrow-crested
narrow-ended
narrow-eyed
narrow-faced
narrow-fisted
narrow-gage
narrow-gauge
narrow-gauged
narrow-guage
narrow-guaged
narrow-headed
narrow-hearted
narrow-hipped
narrow-jointed
narrow-laced
narrow-leaved
narrow-leaved oat grass
narrow-meshed
narrow-minced
narrow-minedly
narrow-mindedness
narrow-mouthed
national assistance
national bank
national bank note
national blue
national cemetery
national chairman
national church
national code
national convention
national debt
national economy
national emergency
national flag
national forest
national guard
national holiday
national honor
national income
national insurance
national language
national leader
national leadership
national literature
national militia
national monument
national newspaper
national park
national product
national school
national service
national socialism
national style
native Australian
native bear
native cleverness
native companion
native dextran
native environment
native land
native language
native metals
native millet
native mineral
native oak
native peach
native soil
native speaker
native speech
native tendency
native timothy
native to
native to the heath
native to the place
native to the soil
native tongue
native wit
native-born
native-born citizenship
native-bornness
natura non facit saltum
natural affection
natural aids
natural astrology
natural child
natural childbirth
natural classification
natural color
natural death
natural development
natural dye
natural dyestuff
natural endowment
natural fiber
natural gas
natural gender
natural geometry
natural gift
natural growth
natural harbor
natural hierarchy
natural history
natural idiot
natural immunity
natural impulse
natural instinct
natural language
natural law
natural levee
natural logarithm
natural magic
natural man
natural mineral
natural minor
natural number
natural person
natural philosopher
natural philosophy
natural politeness
natural radioactivity
natural realism
natural realist
natural religion
natural resources
natural right
natural rights
natural rubber
natural science
natural scientist
natural selection
natural state
natural tendency
natural theology
natural to
natural varnish
natural virtue
natural virtues
natural wit
natural world
natural-born
natural-born fool
naturalis possessio
naturalistic description
naturalistic fallacy
naturalistic humanism
naturalized citizen
naturalized citizenship
nature book
nature cure
nature deity
nature in the raw
nature myth
nature philosopher
nature philosophy
nature printing
nature spirit
nature strip
nature study
nature trail
nature worship
nature worshiper
nature's nobleman
nature-print
nature-printing
naughty child
naughty pack
naughty word
nautch dance
nautch girl
nautical chain
nautical day
nautical mile
naval academy
naval air station
naval aircraft
naval architecture
naval auxiliary
naval bomber
naval brass
naval cadet
naval college
naval combat
naval crown
naval engineer
naval fighter
naval forces
naval intelligence
naval interceptor
naval medicine
naval militia
naval mine
naval officer
naval operations
naval pilot
naval pipe
naval reserve
naval school
naval stores
naval vessel
naval vessels
naval warfare
naval-intelligence man
navel ill
navel orange
navel pipe
navel point
navel-shaped
navigable airspace
navigable river
navigable semicircle
navigate in space
navigating bridge
navigating bridge deck
navigating officer
navigation act
navigation and ranging
navigation light
navigation lights
navigation of empty space
navigation radius
navigation weir
navigational satellite
navigator's bubble
navigator-bombardier trainer
navy agent
navy bean
navy bill
navy blue
navy board
navy cross
navy cut
navy green
navy league
navy leaguer
navy man
navy plug
navy unit
navy yard
nay rather
nay-say
naya paisa
naye paise
ne exeat
ne plus ultra
ne'er a
ne'er a one
ne'er-do-well
ne'er-dos
ne-
neanderthal man
neap tide
near and far
near as the bark on a tree
near at hand
near beer
near by
near death
near duplicate
near east
near enough to
near future
near go
near hand
near likeness
near miss
near point
near relation
near rhyme
near side
near squeak
near the ground
near the limen of hearing
near the mark
near the surface
near the threshold of hearing
near the wind
near thing
near to
near upon
near your end
near your heart
near-
near-acquainted
near-adjoining
near-at-hand
near-blindness
near-bordering
near-by
near-colored
near-coming
near-dwelling
near-fighting
near-following
near-growing
near-guessed
near-hand
near-legged
near-miss
near-point
near-related
near-resenting
near-sight
near-sighted
near-silk
near-smiling
near-stored
near-threatening
near-touching
near-ushering
near-white
nearly die laughing
nearly duplicate
nearly duplicated
nearly replicate
nearly replicated
nearly reproduce
nearly reproduced
nearly the same
neat as a button
neat as a pin
neat as wax
neat house
neat line
neat price
neat profit
neat soap
neat weight
neat's foot
neat's leather
neat's tongue
neat's-foot oil
neat-ankled
neat-dressed
neat-faced
neat-fingered
neat-folded
neat-footed
neat-handed
neat-handedly
neat-handedness
neat-house
neat-limbed
neat-looking
neb-neb
nebula of Lyra
nebula of Orion
nebular hypothesis
nebulous stars
necessary condition
necessary stool
necessity money
necessity's sharp pinch
neck and crop
neck and heels
neck and neck
neck canal cell
neck cell
neck cord
neck deep
neck handkerchief
neck journal
neck molding
neck of the woods
neck or nothing
neck rot
neck strap
neck sweetbread
neck verse
neck yoke
neck-and-neck race
neck-band
neck-beef
neck-bone
neck-break
neck-breaking
neck-cracking
neck-deep
neck-fast
neck-high
neck-hole
neck-piece
neck-rein
neck-stretching
neck-tie
neck-verse
necklace orchid
necklace poplar
necklace tree
necktie party
necktie sociable
necr-
necro-
necrotic enteritis
necrotic inflammation
necrotic tissue
nectar bird
nectar of the gods
nectar-bearing
nectar-breathing
nectar-dropping
nectar-loving
nectar-secreting
nectar-seeking
nectar-spouting
nectar-streaming
nectar-tongued
need clarification
need doing
need explanation
need for
need must
need no explanation
need no prodding
need to
need translation
need-be
need-not
needle bath
needle beam
needle bearing
needle blight
needle bug
needle bush
needle cast
needle chervil
needle dam
needle diatom
needle file
needle fir
needle furze
needle girder
needle gorse
needle grass
needle grinder
needle grinding
needle gun
needle holder
needle ironstone
needle juniper
needle lace
needle loom
needle maker
needle ore
needle palm
needle point
needle pointer
needle scar
needle spar
needle spike rush
needle telegraph
needle time
needle tooth
needle trade
needle valve
needle weir
needle whin
needle-and-ball indicator
needle-and-thread
needle-bar
needle-billed
needle-fish
needle-form
needle-gun
needle-leaved
needle-made
needle-nosed
needle-point
needle-point lace
needle-pointed
needle-scarred
needle-shaped
needle-sharp
needle-witted
needle-nose pliers
needs must
needs-be
needy, the
neel-bhunder
neer-do-well
negation-proof
negative acceleration
negative answer
negative attitude
negative catalyst
negative electricity
negative feedback
negative flag
negative geotropism
negative glow
negative hallucination
negative income tax
negative ion
negative lens
negative misprision
negative polarity
negative pole
negative reinforcement
negative resistance
negative sign
negative tax
negative taxis
negative transfer
negative transference
negative tropism
negative valence
negative-pole
negative-raising
neglect the opportunity
neglected-looking
negotiable bond
negotiable instrument
negotiable instruments
negotiable note
negotiable paper
negotiable securities
negotiate a loan
negotiate a peace
negro corn
negro-head
negrohead beech
neiges d'antan
neighborhood house
neighborhood newspaper
neither fish
neither fish nor fowl
neither here nor there
neither hide nor hair
neither hot nor cold
neither more nor less
neither nobility nor clergy
neither one thing nor the other
nem con
nemat-
nemato-
nematode worm
nemean lion
nemine contradicente
nemine dissentiente
nemo me impune lacessit
neo-
neo-Catholic
neo-Celtic
neo-Christianity
neo-Darwinian
neo-Darwinism
neo-Darwinist
neo-Gothic
neo-Greek
neo-Hippocratic medicine
nerve block
nerve canal
nerve cavity
nerve cell
nerve center
nerve centre
nerve cord
nerve eminence
nerve ending
nerve fiber
nerve fibre
nerve gas
nerve impulse
nerve net
nerve ring
nerve sheath
nerve stretching
nerve trunk
nerve yourself
nerve-ache
nerve-celled
nerve-cutting
nerve-deaf
nerve-deafness
nerve-destroying
nerve-irritating
nerve-jangling
nerve-racked
nerve-racking
nerve-rendering
nerve-ridden
nerve-shaken
nerve-shaking
nerve-shattering
nerve-stretching
nerve-tingling
nerve-trying
nerve-winged
nerve-wracking
nerves of steel
nerves on edge
nervo-
nervous as a cat
nervous breakdown
nervous disorder
nervous exhaustion
nervous nellie
nervous prostration
nether vert
nether world
nether world deity
nethermost layer
nethermost level
nethermost stratum
neti neti
netted melon
netted-veined
nettie-wife
netting knot
nettle butterfly
nettle cell
nettle cloth
nettle creeper
nettle family
nettle geranium
nettle hemp
nettle potato
nettle rash
nettle tree
nettle-cloth
nettle-leaved
nettle-rough
nettle-stung
nettle-tree
nettling cell
network affiliations
network pulser
network show
network stations
neufchatel cheese
neur-
neural arch
neural axis
neural canal
neural cavity
neural crest fold
neural gland
neural groove
neural lamina
neural plate
neural process
neural shield
neural spine
neural tube
neuraminic acid
neuro-
neurocirculatory asthenia
neurogenic shock
neurological disease
neuromotor apparatus
neuron doctrine
neurotic disorder
neurotic personality
neurotic-depressive reaction
neuter passive
neuter verb
neutral acriflavine
neutral atom
neutral axis
neutral color
neutral corner
neutral ground
neutral monist
neutral point
neutral position
neutral red
neutral spirits
neutral territory
neutral tint
neutral zone
neutral-tinted
neutralist nation
neuto-
neutron bomb
neutron factory
neutron number
neutron reaction
neutron star
never a one
never be forgotten
never cease
never die
never end
never fear
never feel better
never finish
never forget
never free from
never hear the last of
never idle
never in all your born days
never in my life
never in the world
never let go
never let on
never mind
never nod
never on earth
never on time
never otherwise
never pass
never say die
never sleep
never so
never stoop
never to be erased from the mind
never to be forgotten
never to return
never touch
never-ceasing
never-ceasingly
never-certain
never-changing
never-conquered
never-constant
never-daunted
never-dead
never-dietree
never-dying
never-ended
never-ending
never- endingly
never-endingness
never-fading
never-failing
never-lasting
never-needed
never-never
never-never country
never-never land
never-quenching
never-ready
never-resting
never-resting thing called Time
never-satisfied
never-say-die
never-setting
never-shaken
never-silent
never-sleeping
never-smiling
never-stable
new meaning
new mintage
new moon
new moon bob
new morality
new pence
new penny
new penny Brit
new phase
new philharmonic pitch
new planets
new realism
new sense
new slant
new style
new term
new testament
new theology
new thought
new to
new town
new twist
new wave
new wine
new wine in old bottles
new wool
new word
new world
new wrinkle
new year
new year’s day
new yorker
new zealander
new-admitted
new-apparel
new-array
new-awaked
new-begotten
new-bladed
new-bloomed
new-blown
new-born
new-built
new-coined
new-come
new-create
new-cut
new-day
new-fallen
new-fashion
new-fashioned
new-fire method
new-fledged
new-found
new-front
new-furbish
new-furnish
new-grown
new-laid
new-light
new-looking
new-made
new-mint
new-minted
new-mintedness
new-model
new-modeler
new-mown
new-name
new-people
new-rich
new-rigged
new-risen
new-set
new-shaped
new-sprung
new-spun
new-written
new-wrought
new-year
newborn babe
newcastle disease
newel post
newel stair
newel-post
newest of the new
newfangled contraption
newfangled device
newfangled expression
newly come
newly-rich
newness to
news agency
news agent
news analyst
news bell
nexus of cause and effect
nez perce
ngai camphor
ni-hard iron
ni-resist iron
nibbing plank
nibble at
nibble away
nibby-jibby
nice Nelly
nice body
nice distinction
nice ear
nice going
nice guy
nice nellie
nice piece of work
nice predicament
nice-Nellie
nice-Nellyism
nice-nelly
nice-nellyism
nicene creed
niceness of distinction
niche in the hall of fame
nicht wahr
nick of time
nick-eared
nick-nack
nickel acetate
nickel bloom
nickel bronze
nickel calciner
nickel carbonyl
nickel glance
nickel gray
nickel green
nickel gymnite
nickel monoxide
nickel ocher
nickel oxide
nickel plate
nickel protoxid
nickel sesquioxide
nickel silver
nickel steel
nickel tetracarbonyl
nickel-cadmium battery

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nickel-iron accumulator
nickel-plate
nickel-plated
nickelic oxide
nickelous oxide
nickel nut
nickel tree
nickertree
nicotine addict
nicotine addiction
nicotine sulphate
nicotinic acid
nicotinic acid amide
nictitating membrane
nid-nod
middle-nodle
niddy-noddy
nieve penitente
nievie-nievie-nick-nack
niff-naff
niff-naffy
niffy-naffy
niger oil
niger seed
nigger bug
nigger chaser
nigger club
nigger daisy
nigger heaven
nigger pine
nigger toe
niggerhead cactus
nigh about
nigh by
nigh hand
nigh on
nigh onto
nigh side
nigh-destroyed
nigh-drowned
nigh-ebbed
nigh-hand
nigh-naked
nigh-past
nigh-spent
night adder
night and day
night ape
night rocket
night school
night sergeant
night shift
night singer
night snake
night soil
night song
night sparrow
night spell
night spot
night steed
night stick
night sweat
night table
night terror
night vision
night warbler
night watch
night watcher
night watches
night watching
night watchman
night willow herb
night-bird
night-black
night-blind
night-blindness
night-blooming
night-blooming cereus
night-blowing
night-born
night-bringing
night-cap
night-cellar
night-cheering
night-clad
night-cloaked
night-clothes
night-club
night-clubbed
night-clubbing
night-contending
night-cradled
night-crow
night-dark
night-decking
night-dispersing
night-dress
night-enshrouded
night-eyed
night-fallen
night-faring
night-feeding
night-filled
night-flowering
night-fly
night-flying
night-folded
night-founndered
night-gaping
night-glass
night-gown
night-grown
night-hag
night-haired
night-haunted
night-hawk
night-heron
night-hid
night-light
night-long
night-mantled
night-night
night-overtaken
night-owl
night-piece
night-prowling
night-rail
night-raven
night-riding
night-robbing
night-robe
night-robed
night-rolling
night-scented
night-season
night-shift
night-shining
night-shirt
night-singing
night-spell
night-straying
night-struck
night-swaying
night-swift
night-swollen
night-tide
night-time
night-traveling
night-tripping
night-veiled
night-walker
night-wandering
night-warbling
night-watch
night-watching
night-watchman
night-work
nightclub habitue
nightshade family
nighty-night
nigrosine spirit-soluble
nigrosine water-soluble
nigrospora cob rot
nihil ad rem
nihil album
nihil debet
nihil dicit
nihil ex nihilo
nihil habet
nihil obstat
nihilistic delusion
niku-bori
nil admirari
nil desperandum
nil nisi bonum
nil sine numine
nile green
nilly-willy
nilpotent algebra
nim tree
nimble mind
nimble will
nimble wit
nimble-eyed
nimble-feathered
nimble-fingered
nimble-footed
nimble-headed
nimble-heeled
nimble-jointed
nimble-mouthed
nimble-moving
nimble-pinioned
nimble-shifting
nimble-spirited
nimble-stepping
nimble-tongued
nimble-toothed
nimble-winged
nimble-witted
nimble-wittedness
nimbus cloud
niminy-pimininess
niminy-piminy
niminy-piminyism
nimmy-pimmy
nimonic alloy
nine days' wonder
nine o'clock
nine points of the law
nine-banded
nine-banded armadillo
nine-circled
nine-cornered
nine-day
nine-eyed
nine-eyed eel
nine-eyes
nine-foot
nine-hole
nine-holes
nine-hour
nine-inch
nine-jointed
nine-killer
nine-knot
nine-lived
nine-mile
nine-part
nine-part measure
nine-part time
nine-ply
nine-point
nine-point circle
nine-pound
nine-pounder
nine-power
nine-share
nine-shilling
nine-spined
nine-spined stickleback
nine-spot
nine-spotted
nine-syllabled
nine-tailed
nine-tenths
nine-voiced
nine-word
nine-year
ninepenny morris
ninepin block
nineteenth hole
nineteenth man
ninety-acre
ninety-day
ninety-day wonder
ninety-eight
ninety-eighth
ninety-fifth
ninety-first
ninety-five
ninety-four
ninety-fourth
ninety-hour
ninety-mile
ninety-nine
ninety-ninth
ninety-one
ninety-second
ninety-seven
ninety-seventh
ninety-six
ninety-sixth
ninety-third
ninety-three
ninety-ton
ninety-two
ninety-word
ninny-hammer
ninth chord
ninth cranial nerve
ninth-born
ninth-built
ninth-class
ninth-formed
ninth-hand
ninth-known
ninth-mentioned
ninth-rate
ninth-told
niobic acid
nip and tuck
nip at the heels of
nip in the bud
nip in the head
nip off
nip through
nip up
nip-up
nipa alcohol
nipa sugar
nipped at
nipped waist
nipper crab
nippety-tipperty
nipping wind
nipple cactus
nippy wind
nirvana principle
nisi prius
nisi prius court
nisi-prius
nissen hut
nissuee trout
nit grass
nit-grass
nit-picking
niter cake
niter-blue
nitr-
nitramino group
nitramino radical
nitric acid
nitric bacteria
nitric bacterium
nitric ether
nitric oxide
nitride process
nitriding steel
nitrile base
nitrile rubber
nitro compound
nitro group
nitro powder
nitro radical
nitro-
nitro-cellulose
nitro-cotton
nitro-hydro-carbon
nitrogen balance
nitrogen chloride
nitrogen cycle
nitrogen dioxide
nitrogen equilibrium
nitrogen family
nitrogen fixation
nitrogen fixer
nitrogen iodide
nitrogen monoxide
nitrogen mustard
nitrogen narcosis
nitrogen oxide
nitrogen pentoxide
nitrogen peroxide
nitrogen tetroxide
nitrogen trioxide
nitrogen-fixing
nitrogen-free
nitrohydrochloric acid
nitro-
nitroso group
nitroso radical
nitroso-
nitrosyl chloride
nitrosylsulfuric acid
nitrous acid
nitrous bacteria
nitrous bacterium
nitrous ether
nitrous oxide
nitrooxanthic acid
nitta tree
nitty-gritty
nitty-gritty, the
njave butter
njave oil
no alternative
no ball
no beauty
no better than she should be
no better than you should be
no buts about it
no catch
no chance
no charge
no chicken
no choice
no claim
no conjuror
no contest
no credit to
no depth
no dice
no difference
no doubt
no dumbbell
no ear
no end
no end of
no end of a fellow
no end to
no exit
no expectation
no fear
no few
no fine print
no fine print at the bottom
no flies on
no go
no great matter
no great shakes
no holds barred
no hope
no ifs
no ifs, ands, or buts
no joke
no joker
no joker in the deck
no kicker
no laughing matter
no less
no less than
no longer among us
no longer present
no longer with us
no love lost
no ma'am
no man
no man's land
no matter
no matter how
no matter what
no-being
no-bottom sounding
no-claim bonus
no-claims bonus
no-count
no-deposit
no-deposit-no-return
no-eye pea
no-fault
no-fault insurance
no-go
no-go area
no-go gauge
no-good
no-hit
no-hitter
no-hoper
no-load fund
no-man's-land
no-no
no-nonsense
no-one
no-par
no-par stock
no-par-value
no-place
no-rent land
no-show
no-side
no-surrender
no-system
no-thoroughfare
no-tillage
no-trump
no-trumper
noan's ark
nobel prize
nobiliary particle
noble ambition
noble art
noble art of self-defense
noble birth
noble experiment
noble fir
noble gas
noble metal
noble metals
noble opal
noble rank
noble rank or birth
noble savage
noble-born
noble-couraged
noble-featured
noble-fronted
noble-looking
noble-minded
noble-mindedly
noble-mindedness
noble-natured
noble-spirited
noble-tempered
noble-visaged
noblesse d'epee
noblesse de robe
noblesse oblige
nobody home
nobody knows
nobody on earth
nobody one knows
nobody present
nobody special
nobody the wiser
nobody under the sun
nobody's fool
nobody's patsy
nobody's sucker
nocking point
noct-
nocti-
nocturnal arc
nocturnal epilepsy
nod assent
nod of assent
nod off
nod to
nod to its fall
nod to your fall
nodal point
nodding acceptance
nodding acquaintance
nodding cap
nodding lilac
nodding to its fall
nodding trillium
noddy tern
non-Buddhist
non-Calvinist
non-Calvinistic
non-Calvinistical
non-Catholic
non-Caucasian
non-Caucasic
non-Caucasoid
non-Celtic
non-Chaucerian
non-Chinese
non-Christian
non-Congregational
non-Congressional
non-Cymric
non-Czech
non-Czechoslovakian
non-Danish
non-Darwinian
non-Druid
non-Egyptian
non-Episcopalian
non-Euclidean
non-Euclidean geometry
non-European
non-Flemish
non-French
non-Gaelic
non-German
non-Germanic
non-Gothic
non-Gothically
non-Greek
non-Gypsies
non-Gypsy
non-Hamitic
non-Hebraic
non-Hebraically
non-Hebrew
non-Hellenic
non-Hibernian
non-Hindu
non-Homeric
non-Indian
non-Ionic
non-Irish
non-Islamic
non-Islamitic
non-Israelite
non-Israelitic
non-Israelitish
non-Italian
non-Italic
non-Japanese
non-Jew
non-Jewish
non-Kaffir
non-Latin
non-Lutheran
non-Magyar
non-Malay
non-Malayan
non-Malthusian
non-Mediterranean
non-Mendelian
non-Methodist
non-Methodistic
non-Mohammedan
non-Mongol
non-Mongolian
non-Mormon
non-Moslem
non-Moslems
non-Muhammadan
non-Muhammedan
non-Muslem
non-Muslems
non-Muslim
non-Muslims
non-Negritic
non-Newton
non-Nicene
non-Nordic
non-Norman
non-Norse
non-Oscan
non-Parisian
non-Peruvian
non-Polish
non-Portuguese
non-Presbyterian
non-Protestant
non-Prussian
non-Quaker
non-Quakerish
non-Roman
non-Russian
non-Sabbatic
non-Sabbatical
non-Sabbatically
non-Sanskritic
non-Saxon
non-Scandinavian
non-Semite
non-Semitic
non-Shakespearean
non-Shakespearian
non-Slavic
non-Spanish
non-Spartan
non-Stoic
non-Swedish
non-Swiss
non-Syrian
non-Tartar
non-Teuton
non-Teutonic
non-Trinitarian
non-Turk
non-Turkic
non-Turkish
non-Tuscan
non-U
non-Ukrainian
non-Umbrian
non-Unitarian
non-Uralian
non-Vedic
non-Venetian
non-Virginian
non-Welsh
non-White
non-Zionist
non-ability
non-access
non-appearance
non-arcking
non-assumpsit
non-attendance
non-claim
non-co-operate
non-co-operation
non-co-operationist
non-co-operative
non-co-operator
non-co-ordination
non-coll
non-collegiate
non-com
non-combatant
non-commissioned
non-committal
non-communicant
non-compounder
non-con
non-condensing
non-conductor
non-contagion
non-content
non-contradiction
non-effective
non-efficient
non-ego
non-elect
non-electric
non-ens
non-essential
non-euclidean
non-existence
non-existent
non-feasance
non-gremial
non-importation
non-intercourse
non-interference
non-intervention
non-intrusion
non-iron
non-joinder
non-jurant
non-juring
non-juror
non-jury
non-literate
non-member
non-metal
non-moral
non-natty
non-natural
non-necessity
non-noble
non-obedience
non-payment
non-performance
non-placet
non-proficiency
non-profit-making
non-pros
non-prosequitur
non-prossed
non-prossing
non-recoiling
non-reduction
non-regent
non-regulation
non-residence
non-resident
non-residential
non-resistance
non-resistant
non-society
non-striker
non-subscriber
non-substantial
non-tenure
non-term
non-union
non-user
non-vascular
nona-
nonaction calligraphist
nonaction calligraphy
nonaggression pact
nonalcoholic beverage
nonaligned nation
nonanoic acid
nonapparent easement
nonapparent servitude
nonassessable mutual
nonassessable stock
noncallable bond
noncallable securities
noncanonical writings
nonce word
nonce, the
nonchord tone
nonco-operation
north star
north wind
north-countriness
north-countryman
north-east
north-easter
north-easterly
north-eastern
north-eastward
north-end
north-following
north-light
north-north-east
north-north-west
north-northeast
north-northeasterward
north-northeastwardly
north-northeastwards
north-northwest
north-northwestward
north-northwestwardly
north-northwestwards
north-polar
north-preceding
north-seeking
north-sider
north-west
north-wester
north-westerly
north-western
north-westward
northeast by east
northeast by north
northeast storm
northern canoe
northern cross
northern crown
northern harvestfish
northern hemisphere
northern kingfish
northern lights
northern mammoth
northern pike
northern porgy
northern red currant
northern redtop
northern sennet
northern studfish
northwest by north
northwest by west
norwegian elkhound
nos-
nosce te ipsum
nose ape
nose around
nose around for
nose bag
nose bit
nose cone
nose count
nose dive
nose down
nose drops
nose ender
nose flute
nose glasses
nose guard
nose hitch
nose into
nose iron
nose key
nose leaf
nose out
nose over
nose peg
nose pipe
nose radiator
nose rag
nose ring
nose stiffener
nose to nose
nose to nose with
nose turret
nose up
nose wheel
nose-bag
nose-band
nose-belled
nose-bleed
nose-dive
nose-dived
nose-diving
nose-dove
nose-grown
nose-heavy
nose-high
nose-leafed
nose-led
nose-nippers
nose-piece
nose-piercing
nose-pipe
nose-pulled
nose-ring
nose-shy
nose-smart
nose-thirl
nose-thumbing
nose-tickling
nose-up
nose-wise
nosee-um
nosegay tree
nosewheel undercarriage
nosey Parker
nosh-up
noso-
nostalgia for the past
nosy Parker
nosy parker
not a Chinaman's chance
not a bad idea
not a bit
not a bit alike
not a bit of difference
not a bit of it
not a blessed one
not a blessed soul
not a breath of air
not a chance
not a dream
not a few
not a hint
not a jot
not a jot or tittle
not a leaf stirring
not a lick
not a lick or smell
not a little
not a mite
not a one
not a particle
not a patch on
not a pin to choose
not a prayer
not a scrap
not a shadow of a suspicion
not a single one
not a single person
not a smidgen
not a smitch
not a snowball's chance in hell
not a soul
not a speck
not a stitch
not a stitch to your back
not a stitch to your name
not a suspicion
not a trace
not a whit
not abide
not absolutely
not accept
not accept compromise
not accept defeat
not accomplish
not accord with
not add up
not admit
not affordable
not agree
not all there
not allow
not allow yourself to believe
not allowed
not amiss
not amount to a damn
not amount to a hill of beans
not amount to anything
not an illusion
not an iota
not another peep out of you
not another word
not answer
not anticipate
not anticipated
not any
not appreciate
not approach
not approve
not as young as you used to be
not at all
not at any price
not at issue
not attend
not back down
not bad
not bargain for
not bat an eye
not bat an eyelash
not be a bit surprised
not be able
not be able to abide
not be able to account for
not be able to bear
not be able to dispense with
not be able to do without
not be able to down
not be able to endure
not be able to say much for
not be able to sit down
not be able to stand still
not be able to swallow
not be able to abide
not be affected by
not be all there
not be at home to
not be behindhand
not be born yesterday
not be caught flatfooted
not be content with
not be entitled to
not be found
not be good for
not be in existence
not be in it
not be in pigtails
not be in your right mind
not be likely
not be met with
not be on speakers
not be on speaking terms
not be on time
not be ready
not be right in the head
not be surprised
not be taken in by
not be too visible
not be up to
not be versed
not be with it
not bear
not bear inspection
not bear with
not beat about the bush
not believe
not believe your ears
not believe your eyes
not believe your senses
not believed
not blink an eye
not boggle at anything
not born yesterday
not breathe
not breathe a word
not bright
not brook
not budge
not budge an inch
not butt in
not buy
not by a damn sight
not by a darn sight
not by a long chalk
not by a long shot
not by a long sight
not by any means
not care
not care a damn
not care a straw about
not care for
not care if you do
not care much for
not care to
not catching
not change
not charmed
not choke on
not come
not come amiss
not come near
not come off
not come to grips with
not come to the point
not come up to
not come up to expectation
not come up to par
not come up to scratch
not come up to the mark
not coming
not comparable
not comparable to
not compare
not compare with
not comply
not comprehensively
not concern
not condone
not conform
not connect with
not consent
not consider
not considerate
not considered
not convey anything
not cost anything
not count
not count the cost
not countenance
not counting
not crack a smile
not cricket
not cry over spilled milk
not cut it
not cut out for
not cut the mustard
not dare to show your face
not deep
not deep enough to float a match
not deny
not deserving belief
not destroy
not do
not do by halves
not do justice to
not done
not dry behind the ears
not easy
not eat
not either
not endanger
not endure
not enough
not enough to count
not enough to matter
not enter your head
not enter your mind
not equal to
not ever
not exhaustively
not exist
not expect
not expend
not expose yourself
not face up to
not fail
not fair
not fall for
not far
not far from
not far off
not fast
not feel like
not feel like anything
not figure
not fill the bill
not find it in your heart to
not find your way to first base
not firm
not fit for man or beast
not fit for mixed company
not fit to be seen
not fit to drink
not fit to eat
not flag
not flinch from
not following
not for attribution
not for love or money
not for publication
not for release
not for the life of me
not for the record
not for the world
not foresee
not forget
not found
not gag on
not get all choked up over
not get along
not get involved
not get involved in
not get off base
not get out of line
not get to first base
not give
not give a damn
not give a damn about
not give a dime a dozen for
not give a hoot
not give a hoot for
not give a shit
not give a shit for
not give a thought to
not give away
not give it a second thought
not give it another thought
not give two hoots for
not give up
not give up the ship
not go along with
not go for
not go off the deep end
not go on all fours with
not go out on a limb
not go too far
not good enough
not guesswork
not guilty
not hack it
not half
not half a chance
not half bad
not half of
not hard
not hard to look at
not hardly
not harken
not have
not have a Chinaman's chance
not have a chance
not have a dry thread
not have a leg to stand on
not have a moment to spare
not have a penny
not have a prayer
not have a sou
not have a word to say
not have all your buttons
not have all your marbles
not have any part of
not have anything to do with
not have idea one
not have it
not have it in one
not have the first idea
not have the faggiest
not have the heart
not have the heart to
not have the knack
not have the least idea
not have the remotest idea
not have the stomach for
not have the stomach to
not have time
not having all one's marbles
not having any
not hear a word
not hear of
not heed
not held against one
not held against you
not here
not hesitate
not hesitate to
not hold a candle to
not hold back
not hold it against one
not hold it against you
not hold together
not hold up
not hold up in the wash
not hold water
not hold with
not hold your breath
not if I can help it
not if I know it
not if you can help it
not implicate
not imply
not in donkey's years
not in error
not in it
not in keeping with
not in residence
not in the habit of
not in the least
not in the mood
not in the picture
not in the same street with
not in your right mind
not included
not infrequently
not interfere
not involve
not involve yourself
not keep
not keep faith with
not kid yourself
not know
not know any better
not know any of the answers
not know beans
not know chalk from cheese
not know from A to B
not know from Adam
not know how
not know someone from Adam
not know the first thing about
not know the half of it
not know the score
not know the time of day
not know the way home
not know up from down
not know what it is all about
not know what o’clock it is
not know what to make of
not know what you are about
not know what’s what
not know when to stop
not know when you are beaten
not know where you stand
not know which way is up
not know which way to turn
not know your interest
not know your own mind
not known
not kosher
not leave a leg to stand on
not let a word escape one
not let a word escape you
not let go
not let it get you down
not let it go further
not let out a peep
not lift a finger
not lift a hand
not like
not likely
can not listen
can not live to eat
can not live up to expectation
can not long ago
can not look back
can not look backward
can not look for
can not look like
can not lose a moment
can not lose sight of
can not lying down
not make an issue of
not make any difference
not make head or tail of
not make heads or tails of
not make it
not make out
not make sense
not make static
not make the course
not make the grade
not make waves
not many
not matter
not matter to
not mean a thing
not measure up
not measure up to expectation
not measuring up
not meddle
not meddle with
not meriting belief
not mince words
not mind
not mind if you do
not mind your business
not miss a trick
not move a foot
not moving
not much
not much for looks
not much of a bargain
not much to boast of
not much to look at
not nearly
not new
not notice
not observe
not occur
not of the earth
not of this world
not often
not on speaking terms
not on the job
not on your life
not one
not open your mouth
not opinion
not oppose
not outstanding
not overlook a bet
not pass
not pass muster
not pay
not penetrate
not perfect
not permit
not permitted
not play fair
not possible
not present
not pretend to say
not proceed with
not proved
not proven
not pull fair
not pull your punches
not pursue with
not put a foot wrong
not put it past
not put up with
not qualify
not quite
not quite right
not rare
not reach
not reach to
not real
not realize your expectations
not really
not receive
not refuse
not register
not relate to
not relax
not relax your concern
not remember
not resemble
not resist
not respect
not respectable
not rest
not right
not right in the head
not rightly know
not ring any bells
not ring true
not rock the boat
not say 'boo'
not say a word
not see
not see an inch beyond your nose
not see beyond your nose
not see the wood for the trees
not seldom
not show up
not shrink from
not shut your eyes
not signify
not singular
not slacken
not sleep a wink
not so
not so bad
not so dumb
not so many
not so much
not so you could tell it
not spare the horses
not speak well of
not square
not square with
not stand a chance
not stand for
not stand on ceremony
not stand up
not standard
not stick your neck out
not stir
not stir a step
not stomach
not stop to think
not stretch
not strike your colors
not subject to call
not submit
not suffer
not suffice
not surprised
not swallow
not sweat it
not take
not take 'no' for an answer
not take care of
not take it as a joke
not take kindly to
not take lying down
not take upon yourself to say
not tamper
not tell
not tell apart
not tell one from the other
not that sort
not that you know
not that you would know it
not the half of
not the same
not the same thing at all
not the thing
not the type
not there
not think
not think much of
not think of
not to be believed
not to be borne
not to be changed
not to be compared
not to be compared with
not to be deflected
not to be depended on
not to be depended upon
not to be despised
not to be distinguished
not to be endured
not to be expected
not to be had
not to be had at any price
not to be had for love or money
not to be handled without gloves
not to be improved
not to be minuted
not to be mistaken
not to be moved
not to be overlooked
not to be quoted
not to be recommended
not to be relied on
not to be relied upon
not to be shaken
not to be sneezed at
not to be thought of
not to be trifled with
not to be trusted
not to get a thing out of
not to lift a hand
not to mention
not to mince the matter
not to mince words
not to the purpose
not to your taste
not tolerate
not too bad
not touch
not touch with a ten-foot pole
not trouble your head about
not trouble your head with
not trouble yourself with
not true
not true to
not turn a hair
not turn the other cheek
not turning over
not understand
not unlike
not up to
not up to expectation
not up to sample
not up to scratch
not up to snuff
not up to specification
not up to standard
not up to your hopes
not use
not use up
not used
not utter a word
not vital
not wait for an invitation
notched-leaved
note broker
note discounting
note down
note of alarm
note of explanation
note of hand
note paper
note row
note shaver
note shaving
note value
note well
note-blind
note-blindness
note-book
note-holder
note-paper
note-perfect
notes inegales
notes of a scale
nothing at all
nothing doing
nothing else
nothing else but
nothing if not critical
nothing in excess
nothing in particular
nothing like
nothing loath
nothing more
nothing of the kind
nothing of the sort
nothing off
nothing on earth
nothing special
nothing to boast of
nothing to brag about
nothing to do with
nothing to do with the case
nothing to hide
nothing to it
nothing to say about
nothing to signify
nothing to speak of
nothing to the left
nothing to the right
nothing to think twice about
nothing to write home about
nothing under the sun
nothing whatever
nothing worth speaking of
notice board
notions counter
nought beside
noughts and crosses
noughts-and-crosses
noun clause
noun determiner
noun equivalent
noun phrase
nourish in your bosom
nouveau riche
nouveau roman
nouveau roturier
nouveau-riche	nouvelle cuisine
nouvelle vague
nouvelles vagues
novel idea
novel maker
novel of character
novel of ideas
novel of incident
novel of manners
novel of sensibility
novel of the soil
novel reader
novel writer
novel-crazed
novel-making
novel-purchasing
novel-reading
novel-sick
novel-writing
novelty shop
novelty siding
novice point
novus homo
novus ordo seclorum
now and again
now and forever
now and then
now as previously
now or never
nuclear isomer
nuclear isomerism
nuclear magnetic resonance
nuclear magneton
nuclear particle
nuclear physicist
nuclear physics
nuclear power
nuclear power plant
nuclear radiation
nuclear rays
nuclear reaction
nuclear reactor
nuclear resonance
nuclear submarine
nuclear warhead
nuclear weapons
nuclear-powered ship
nuclear-powered submarine
nucleic acid
nuclein base
nucleo-
nucleon number
nucleus counter
nude painting
nudi-
nudum pactum
nugi-
nuisance ground
nuisance tax
nuisance value
null and void
null hypothesis
null method
null sequence
null-manifold
nulla bona
nulla-nulla
nulli secundus
nullius filius
nullius juris
numb-fish
number admit
number among
number field
number five iron
number four iron
number four wood
nuptial plumage
nuptial song
nuptial tie
nurse an idea
nurse balloon
nurse cell
nurse child
nurse crop
nurse frog
nurse mother
nurse resentment
nurse shark
nurse tree
nurse your revenge
nurse's aide
nurse-child
nurse-father
nurse-mother
nurse-tree
nursery cannon
nursery rhyme
nursery school
nursery school child
nursery slopes
nursery stakes
nursery stock
nursery tale
nurses' station
nursing bottle
nursing father
nursing foot
nursing home
nursing mother
nursing sister
nurture a belief
nurture a feeling
nurture an idea
nurture the hope
nut bone
nut bread
nut brown
nut buoy
nut coal
nut crab
nut dash
nut grass
nut margarine
nut oil
nut palm
nut pine
nut quad
nut rush
nut sedge
nut to crack
nut weevil
nut-brown
nut-crack
nut-cracker
nut-cracking
nut-gall
nut-gathering
nut-grass
nut-hook
nut-oil
nut-shaped
nut-shelling
nut-sweet
nut-tapper
nut-toasting
nut-tree
nut-weevil
nutgall oak
nutmeg apple
nutmeg bird
nutmeg butter
nutmeg family
nutmeg flower
nutmeg geranium
nutmeg grater
nutmeg hickory
nutmeg liver
nutmeg melon
nutmeg oil
nutmeg pigeon
nutrient ratio
nutritional disease
nutritive ratio
nutritive value
nuts about
nuts and bolts
nuts on
nuts over
nutty as a fruitcake
nutty-brown
nutty-flavored
nutty-looking
oatlike grass
oatmeal cookie
oatseed bird
ob-
obeah doctor
obesity diet
obey the rules
obey your impulse
obispo pine
obiter dicta
obiter dictum
object ball
object case
object glass
object in mind
object language
object lens
object lesson
object libido
object matter
object of art
object of compassion
object of note
object of pity
object of your affections
object program
object space
object speculum
object staff
object teaching
object to
object-glass
object-matter
objectionable person
objective behavior
objective case
objective complement
objective correlative
objective existence
objective genitive
objective idealism
objective point
objective predicate
objective prism
objective relativism
objective relativist
objective spirit
objective truth
objectively true
objectivn objectless preposition
objet d'art
objet d-art
objet trouv
objets d'art
oblate spheroid
oblation cloth
obligate yourself
obliged to
oblique angle
oblique case
oblique circular cone
oblique circular cylinder
oblique coordinates
oblique figure
oblique line
oblique motion
oblique narration
oblique sailing
oblique section
oblique speech
oblique-angled
oblique-fire
obliquity of the ecliptic
obliterative inflammation
oblong-acuminate
oblong-cordate
oblong-cylindric
oblong-elliptic
oblong-elliptical
oblong-falcate
oblong-hastate
oblong-lanceolate
oblong-leaved
oblong-linear
oblong-ovate
oblong-ovoid
oblong-spatulate
oblong-triangular
oblong-wedgeshaped
obnoxious person
oboe d'amore
oboe da caccia
obscene language
obscene literature
obscure darkness
obscurum per obscurius
obsequent stream
observable behavior
observation balloon
observation car
observation flight
observation kite
observation mine
observation plane
observation platform
observation point
observation post
observation squadron
observation tower
observation train
observatory on the moon
observatory outlook
observe etiquette
observe protocol
observe the
observe the Golden Rule
observe the formalities
observe the proprieties
observe with a fine-toothed comb
obsess the mind
obsessed by
obsessional neurosis
obsessive compulsion
obsessive-compulsive neurosis
obsessive-compulsive reaction
obsidional coin
obsolete securities
obstacle course
obstacle race
obstacle racer
obstinate person
obstinate pride
obstruction light
obstruction to vision
obtain a divorce
obtain a return
obtain by fair means or foul
obtain under false pretenses
obtaining by deception
obtrude on
obtrude upon
obturator artery
obturator canal
obturator fascia
obturator membrane
obturator nerve
obturator vein
obtuse angle
obtuse bisectrix
obtuse triangle
obtuse-angled
obtuse-angled triangle
obtuse-angular
obtusi-
obvious clue
occasional cause
occasional chair
occasional licence
occasional poet
occasional table
occasional verse
occasioned by
occipital bone
occipital lobe
occipito-
occluded front
occult balance
occult meaning
occult phenomena
occult, the
occulting light
occulting screen
occupation bridge
occupation force
occupation franchise
occupation layer
occupation neurosis
occupation stamp
occupational disease
occupational hazard
occupational neurosis
occupational psychology
occupational school
occupational therapy
occupy a certain position
occupy a post
occupy the attention
occupy the chair
occupy the mind
occupy the mind with
occupy the thoughts
occupy the thoughts with
occupy time
occupy your time
occupy yourself
occupy yourself with
occur often
occur periodically
occur to
occur to your mind
ocean basin
ocean bed
ocean bottom
ocean breeze
ocean bug
ocean depths
ocean floor
ocean front
ocean green
ocean greyhound
ocean lane
ocean liner
ocean main
ocean marine insurance
ocean nymph
ocean of emptiness
ocean perch
ocean pout
ocean racer
ocean sea
ocean spray
ocean sunfish
ocean trade
ocean tramp
ocean travel
ocean trip
ocean zone
ocean-born
ocean-borne
ocean-carrying
ocean-compassed
ocean-flooded
ocean-girdled
ocean-going
ocean-going tug
ocean-guarded
ocean-rocked
ocean-severed
ocean-skirted
ocean-smelling
ocean-spanning
ocean-sundered
ocean-wide
oceanic island
oceanographic research ship
ocellated turkey
ocelli-
ocher brown
ocher orange
ocher red
ocher-brown
ocher-colored
ocher-red
ocher-yellow
ochr-el-guerche
ochro-
oct-
octa-
octadecanoic acid
octagon scale
octahedron group
octal base
octal notation
octal system
octane number
octane rating
octanedioic acid
octave coupler
octave flute
octave scale
octave species
octet theory
octo-
ocetyl alcohol
octyl phenol
ocuba wax
ocul-
ocular inspection
ocular spectroscope
ocular spectrum
ocular spot
oculo-
oculomotor nerve
odd and even
odd fellow
odd fish
odd job
odd lot
odd man
odd man out
odd moments
odd number
odd or even
odd permutation
odd person
odd thing
odd-bell system
odd-come-short
odd-come-shortly
odd-even check
odd-fangled
odd-humored
odd-jobber
odd-jobman
odd-looking
odd-lot
odd-lot dealer
odd-mannered
odd-me-dod
odd-numbered
odd-pinnate
odd-shaped
odd-sounding
odd-thinking
odd-toed
odds and ends
odds and sods
odds or evens
odds-on
odds-on chance
odium theologicum
odont-
odonto-
odontoid process
odor of sanctity
odour of sanctity
odylic force
oedipus complex
oeil-de-boeuf
oeils-de-boeuf
oenanthic ester
oenanthic ether
oeno-
oesophago-
oestrus cycle
of Nassau
of Preston
of a certain age
of a certainty
of a kind
of a low order of importance
of a mind to
of a piece
of a place
of a size
of a sort
of a sudden
of a truth
of age
of all descriptions
of all kinds
of all manner of colors
of all misery
of all shapes
of all sorts
of all the colors of the rainbow
of all things
of all types
of all work
of another sort
of any description
of any kind
of any sort
of bad faith
of behavior
of choice
of cleanly habits
of common ancestry
of common descent
of common occurrence
of common source
of common stock
of concern
of concernment
of consequence
of consummiate art
of counsel
of course
of design
of different orders
of doubt
of easy virtue
of evil portent
of fatal omen
of feeling
of few words
of fiction
of full age
of general application
of general utility
of gentle blood
of good breed
of good cheer
of good comfort
of good credit
of good hope
of good omen
of good physique
of gourmet quality
of great cost
of great price
of happy portent
of heart
of help
of ill omen
of importance
of interest
of itself
of kin
of language
of late
of like mind
of little brain
of little consequence
of little importance
of long duration
of long standing
of loose morals
of many words
of mark
of marriageable age
of moment
of necessity
of no account
of no avail
of no concern
of no consequence
of no earthly use
of no effect
of no force
of no great importance
of no importance
of no matter
of no purpose
of no significance
of no use
of note
of old
of one accord
of one mind
of one piece
of opposite polarity
of other times
of powerful physique
of preference
of promise
of quality
of rank
of record
of ripe age
of sentiment
of set purpose
of significance
of small importance
of small number
of sorts
of soul
of sound mind
of that ilk
of that kind
of that sort
of the best
of the best sort
of the blood
of the clock
of the cloth
of the dead
of the deepest
of the deepest dye
of the earth
of the essence
of the faith
of the first magnitude
of the first rank
of the first water
of the folk
of the highest type
of the old school
of the same hue
of the same kidney
of the same mind
of the same stripe
of the true faith
of the war party
of two minds
of unsound mind
of use
of value
of vital importance
of weight
of yesterday
of yore
of your own
of your own accord
of your own choice
of your own free will
of your own volition
of-
of-door
of-fact
of-the-moment
off Broadway
off and on
off base
off chance
off colour
off cut
off day
off duty
off guard
off in the clouds
off in the upper story
off in your reckoning
off key
off limits
off line
off market
off note
off of
off on
off pat
off plumb
off season
off side
off soundings
off stage
off stump
off the air
off the beam
off the beaten track
off the course
off the cuff
off the field
off the ground
off the heading
off the hinges
off the hip
off the hook
off the old block
off the rails
off the record
off the reel
off the shelf
off the subject
off the top of the head
off the top of your head
off the track
off the trolley
off the vertical
off the wall
off the wind
off white
off with
off with you
off work
off year
off you go
off your beat
off your chump
off your feed
off your guard
off your hands
off your head
off your nut
off your rocker
off your trolley
off-
off-Broadway
off-balance
off-base
off-bear
off-bearer
off-bitten
off-board
off-break
off-cast
off-center
off-centered
off-centre
off-chance
off-color
off-colored
off-corn
off-cutting
off-drive
off-fall
off-falling
off-flavor
off-flow
off-glide
off-go
off-guard
off-hand
off-handed
off-hit
off-hitting
off-hour
off-key
off-licence
off-license
off-limits
off-line
off-load
off-loading
off-look
off-lying
off-mike
off-off-Broadway
off-peak
off-pitch
off-put
off-putting
off-reckoning
off-season
off-setting
off-shaving
off-shed
off-sider
off-sloping
off-sorts
off-stage
off-standing
off-street
off-taking
off-the-cuff
off-the-face
off-the-peg
off-the-record
off-the-wall
off-thrown
off-time
off-tone
off-turning
off-wheel
off-wheeler
off-white
off-year
off-year election
offend against the law
offend the ear
offend the eye
offend the nostrils
offense to the nostrils
offensive lineman
offensive load
offensive odor
offensive strategy
offensive to ears polite
offensive to gentle ears
offensive warfare
offer a good prospect
offer a prayer
offer a resolution
offer as a plea
offer at a bargain
offer bait to
offer excuse for
offer for sale
offer in defense
offer in exchange
offer itself
offer of marriage
offer of parley
offer price
offer resistance
offer sacrifice
offer thanks
offer the expectation
offer to buy
offer to the public
offer up
offer up an oblation
offer your compliments
offer your congratulations
offer your felicitations
offer yourself
offered price
offering no delight
offering price
offertory hymn
offertory sentence
offertory veil
offhand position
offhand shot
official residence
office bearer
office block
office boy
office building
office copy
office fixture
office force
office found
office furniture
office girl
office hours
office hunter
office lawyer
office lock
office manager
office practice
office premium
office seeker
office temporary
office worker
office-bearer
office-block ballot
office-boy
office-seeking
officer of arms
officer of the court
officer of the day
officer of the deck
officer of the guard
officer of the watch
officer plant
officer tree
officers' country
official count
official document
official jargon
official journal
official language
official oath
official scorer
official secrecy
official spokesman
officious will
offscourings of society
offscum of society
offset line
offset lithography
offset lithography press
offset sheet
offset staff
offset litho
offshore dock
offshore rights
offspring of Heav'n firstborn
offtrack betting
oft-named
oft-repeated
oft-time
oft-times
often enough
often offensive
ogee arch
ogee doorway
ogle at
oh boy
oh yes
ohm-ammeter
ohm-ampere system
ohm-mile
ohmic resistance
oil and vinegar
oil asphalt
oil bath
oil beetle
oil box
oil burner
oil bushing
oil cake
oil camp
oil can
oil cellar
oil circuit breaker
oil color
oil column
oil cup
oil derrick
oil distiller
oil drill
oil drum
oil engine
oil extractor
oil feeder
oil field
oil fuel
oil furnace
oil gas
oil gauge
oil gilding
oil gland
oil green
oil groove
oil gun
oil heat
oil heater
oil heating
oil lamp
oil land
oil meal
oil mill
oil milling
oil mold
oil nut
oil of almonds
oil of ben
oil of cade
oil of catechumens
oil of mirbane
oil of myrbane
oil of palms
oil of the sick
oil of turpentine
oil of vitriol
oil of wintergreen
oil omphacine
oil paint
oil painter
oil painting
oil paints
oil palm
oil pan
oil plant
oil press
oil pulp
oil refiner
oil refinery
oil rig
oil ring
oil rock
oil sand
oil shale
oil shark
oil sheet
oil silk
oil slick
oil spot
oil stove
oil switch
oil tanker
oil tanning
oil tar
oil the tongue
oil tree
oil tube
oil varnish
oil well
oil whetstone
oil yellow
oil-bag
oil-base paint
oil-bearing
oil-break switch
oil-bright
oil-burning
oil-carrying
oil-colorist
oil-colour
oil-containing
oil-cooled
oil-dispensing
oil-distributing
oil-driven
oil-electric
oil-fed
oil-filled
oil-finding
oil-finished
oil-fired
oil-forming
oil-fueled
oil-gas tar
oil-gilding
oil-harden
oil-hardened steel
oil-hardening
oil-heat
oil-heated
oil-insulated
oil-laden
oil-lit
oil-mill
oil-nut
oil-plant
oil-producing
oil-pumping
oil-refining
oil-regulating
oil-saving
oil-seal
oil-secretting
oil-seed
oil-smelling
oil-soaked
oil-temper
oil-tempered
oil-testing
oil-thickening
oil-tongued
oil-tree
oil-yielding
oilcloth knife
oiled silk
oilspot glaze
oily calm
oily-brown
oily-looking
oily-smooth
oily-tongued
oino-
oticica oil
oka cheese
okey-doke
okle-dokle
old Adam
old age
old age pension
old amethyst
old as Adam
old as Methuselah
old as history
old as the hills
old as time
old bach
old bachelor
old bag
old battle-ax
old believer
old bird
old blue
old boy
old boy network
old bulgarian
old campaigner
old catholic
old cedar
old chap
old chat
old christmas
old church slavonic
old clothes
old clothes man
old clothing
old codger
old country
old country, the
old covenant
old crock
old crony
old dame
old days
old dodo
old dog
old duffer
old english
old english sheepdog
old enough to know better
old face
old fart
old fellow
old field
old fogey
old fogy
old folks' home
old french
old fud
old fustic
old geezer
old gent
old gentleman
old girl
old glory
old goat
old gold
old granny
old guard
old hand
old hat
old hen
old high german
old ionic
old ivory
old joke
old lady
old liner
old maid
old man
old man's beard
old master
old moon
old nick
old nobility
old norse
old order
old paper
old party
old person
old poop
old pro
old prussian
old red
old river
old rose
old salt
old saw
old saxon
old school
old school tie
old sea dog
old sledge
old soldier
old soldiers' home
old song
old squaw
old stager
old story
old style
old talk
old testament
old times
old trot
old turkey
old welsh
old wheeze
old wife
old witch grass
old wives' tale
old woman
old world
old-age
old-age and survivors insurance
old-age assistance
old-age insurance
old-age pension
old-age pensioner
old-aged
old-bachelorish
old-bachelorship
old-boyish
old-clothesman
old-country
old-established
old-faced
old-fangled
old-farrand
old-farrandlike
old-fashionened
old-fashionedly
old-fashionedness
old-field birch
old-field dove
old-field lark
old-field pine
old-fogeydom
old-fogeyish
old-fogy
old-fogydom
old-fogish
old-fogyishness
old-fogyism
old-gathered
old-gentlemanly
old-gold
oleander scale
oleaster family
olefiant gas
olefin series
oleic acid
oleo gear
oleo leg
oleo oil
oleo strut
oleo-
oleoyl group
oleoyl radical
oleyl alcohol
olfactory area
olfactory bulb
olfactory cell
olfactory nerve
olfactory nerves
olfactory organ
olfactory pit
olfactory sense
olfactory tract
olig-
oligo-
oliinda bug
olivaceo-
olive acanthus
olive bark
olive berry
olive branch
olive brown
olive crown
olive drab
olive drabs
olive dun
olive family
olive fly
olive gnat
olive gray
olive green
olive gum
olive knot
olive mangrove
olive nut
olive oil
olive ore
olive plant
olive plum
olive quill
olive scab
olive scale
olive shell
olive tubercle
olive yellow
olive-backed
olive-backed thrush
olive-bordered
olive-branch
olive-brown
olive-cheeked
olive-clad
olive-colored
olive-complexioned
olive-drab
olive-drab shirt
olive-green
olive-greenish
olive-growing
olive-kernel oil
olive-oil castile soap
olive-pale
olive-shaded
olive-shadowed
olive-sided
olive-sided flycatcher
olive-skinned
olive-tree agaric
olive-wood
olivine-andesite
olivine-basalt
olla podrida
olla-podrida
olympian games
olympic games
om mani padme hum
omander wood
ombres chinoises
ombro-
ome next
omega minus
omega particle
omni mane
omni-
omni-ignorant
omnia vincit amor
omnibus bill
omnibus box
omnibus clause
omnibus driver
omnibus train
omnibus volume
omnibus-driving
omnibus-fashion
omnibus-riding
omnidirectional antenna
omnidirectional microphone
omnidirectional range
omnipotent ruler
omnium gatherum
omnium-gatherum
omnium-gatherums
omo-hyoid
omphalo-
on Easy Street
on Queer Street
on a beam
on a beat
on a bed of roses
on a bowline
on a broad reach
on a cloud
on a declining scale
on a first-name basis
on a footing
on a good footing
on a large scale
on a leash
on a lee shore
on a level
on a line
on a minuscule scale
on a par
on a reach
on a rock
on a slant
on a small scale
on a stretch
on a string
on a sudden
on a sudden impulse
on a treadmill
on account
on account of
on account of this
on account of what
on account of which
on all accounts
on all counts
on all fours
on all fours with
on all hands
on all sides
on all tongues
on amicable terms
on an easy bowline
on an even keel
on an infinitesimal scale
on and off
on and on
on approval
on bad terms
on bail
on balance
on base
on bedrock
on behalf of
on bended knee
on board
on board ship
on budget terms
on call
on center
on chosen
on cloud nine
on condition
on condition that
on consignment
on credit
on deck
on demand
on deposit
on dit
on divers occasions
on draft
on dry land
on duty
on eagle's wings
on earth
on easy terms
on edge
on end
on equal terms
on even ground
on even terms
on every hand
on every side
on everyone's lips
on everyone's tongue
on faith
on familiar terms
on file
on fire
on foot
on footback
on friendly terms
on furlough
on good terms
on guard
on hand
on hands and knees
on her beam-ends
on her own bottom
on high
on hire
on holiday
on horseback
on ice
on impulse
on instinct
on intimate terms
on its beam-ends
on its side
on key
on land
on leash
on leave
on line
on live
on loan
on no account
on no condition
on no occasion
on occasion
on offer
on one
on one occasion
on one side
on one's beam-ends
on one's hands and knees
on one's last legs
on one's uppers
on order
on pain of
on paper
on parole
on passage
on penalty of
on pension
on pins and needles
on principle
on probation
on purpose
on reconsideration
on record
on relief
on route to
on sabbatical leave
on schedule
on second thought
on security
on shank's mare
on shank's pony
on shipboard
on ships
on short commons
on short notice
on side
on sight
on slippery ground
on solid ground
on soundings
on speaking terms
on stilts
on stream
on sufferance
on sure ground
on tap
on tenterhooks
on terms
on terms of equality
on terra firma
on that account
on that ground
on that occasion
on the
on the Book
on the agenda
on the air
on the alert
ton the anvil
on the anxious bench
on the anxious seat
on the assumption that
on the attack
on the average
on the back of
on the ball
on the bare possibility
on the barricades
on the bash
on the beach
on the beam
on the beam's ends
on the beam-ends
on the beat
on the beaten track
on the bench
on the berth
on the bias
on the blink
on the block
on the boards
on the books
on the borderline
on the bounce
on the brain
on the brink
on the brink of
on the bum
on the button
on the calendar
on the cards
on the carpet
on the chance
on the cheap
on the coattails of
on the confines of
on the contrary
on the course
on the crest
on the crest of the wave
on the critical list
on the cuff
on the decline
on the defensive
on the descendant
on the docket
on the dole
on the dot
on the double
on the double-quick
on the downgrade
on the downward track
on the earth
on the edge
on the edge of
on the edge of tears
on the eve of
on the evidence
on the face of
on the face of it
on the face of the earth
on the face of the globe
on the fence
on the fire
on the flank of
on the floor
on the fly
on the fritz
on the gad
on the go
on the good side of
on the ground
on the heading
on the heel and toe
on the high road
on the high road to
on the high seas
on the high side
on the hip
on the hoof
on the hook
on the hop
on the horizon
on the horns of a dilemma
on the house
on the in with
on the increase
on the instant
on the jar
on the job
on the jump
on the knees of the gods
on the knocker
on the lam
on the lap of the gods
on the left
on the level
on the lift
on the lines of
on the lookout
on the lookout for
on the loose
on the low side
on the make
on the march
on the mark
on the market
on the mend
on the minute
on the model of
on the money
on the move
on the nail
on the nod
on the nose
on the off chance
on the offensive
on the order of
on the other hand
on the outs
on the outs with
on the outside
on the pad
on the parish
on the part of
on the peak
on the pinnacle
on the point
on the point of
on the present occasion
on the qt
on the quiet
on the rack
on the ragged edge
on the razor's edge
on the rebound
on the receiving end
on the return
on the right
on the right scent
on the right side of
on the right track
on the rise
on the road
on the road to
on the rocks
on the run
on the safe side
on the same footing
on the same level
on the same old round
on the same plane
on the scent of
on the score of
on the shady side
on the shady side of
on the shelf
on the shelves
on the shoulders of
on the sick list
on the side
on the skids
on the skirts of
on the sly
on the spot
on the spur of the moment
on the square
on the stage
on the stick
on the stocks
on the straight
on the streets
on the strength of
on the subject of
on the summit
on the supposition that
on the surface
on the table
on the take
on the tapis
on the throne
on the tip of your tongue
on the top
on the town
on the track of
on the trail of
on the tramp
on the turn
on the up-and-up
on the upbeat
on the upgrade
on the upswing
on the verge
on the verge of
on the wagon
on the wane
on the watch
on the watch for
on the water cart
on the water wagon
on the way
on the way to
on the whole
on the wind
on the wing
on the wrong
on the wrong tack
on thin ice
on this account
on this side of the grave
on tick
on time
on tippytoe
on tiptoe
on to
on top
on top of
on top of the heap
on top of the roost
on top of the world
on tour
on trial
on trust
on vacation
on velvet
on view
on visiting terms
on welfare
on what account
on what occasion
on wheels
on which
on which occasion
on your
on your back
on your beam-ends
on your belly
on your bended knees
on your coattails
on your deathbed
on your feet
on your guard
on your hands
on your head
on your high horse
on your hind legs
on your hunkers
on your knees
on your last legs
on your legs
on your mark
on your marrowbones
on your mettle
on your mind
on your nose
on your own
on your own account
on your own ground
on your own hook
on your own initiative
on your own responsibility
on your own say-so
on your own time
on your shitlist
on your toes
on your travels
on your uppers
on your way
on your word
on your word of honor
on-
on-again-off-again
on-board
on-coming
on-ding
on-dit
on-drive
on-glaze
on-glide
on-go
on-going
on-hit
on-limits
on-line
on-off switch
one fourth
one half
one hoss shay
one hundred thousand
one in a million
one in a thousand
one in a way
one in ten thousand
one leg
one man
one mind
one o'clock
one of the people
one of these days
one of us
one old cat
one or two
one small difficulty
one thing leads to another
one thing nor the other
one thing to another
one time
one touch of nature
one up
one up on
one voice
one vote
one's adieus
one's all
one's ancestors
one's best
one's best effort
one's best endeavor
one's betters
one's blind side
one's crowd
one's damndest
one's darndest
one's days are numbered
one's disposal
one's doom is sealed
one's due
one's fathers
one's heels
one's hour is come
one's level best
one's mouth
one's move
one's native ground
one's native heath
one's native place
one's number is up
one's own choice
one's own discretion
one's own initiative
one's own man
one's own sweet time
one's own will
one's race is run
one's say
one's set
one's turn
one's two cents' worth
one's utmost
one's worth
one-a-cat
one-act
one-acter
one-and-a-half
one-armed
one-armed bandit
one-base hit
one-berry
one-blade
one-bladed
one-buttoned
one-by-one
one-celled
one-chambered
one-class
one-classer
one-colored
one-crop
one-cusped
one-day
one-decker
one-dimensional
one-dimensional wave
one-dollar
one-eared
one-egg
one-eighty
one-eyed
one-eyedness
one-finned
one-flowered
ones self
onga-onga
onglette file
onion couch
onion dome
onion flute
onion fly
onion foot
onion louse
onion maggot
onion mildew
onion red
onion roll
onion salt
onion sauce
onion set
onion smudge
onion smut
onion structure
onion twitch
onion-eyed
onionskin pink
oniro-
onium compound
onization potential
only a few
only a step
only choice
only have eyes for
only human
only if
only just
only not
only now and then
only occasionally
only once
only think
only too
only when necessary
only when the spirit moves
only yesterday
only-begotten
onomato-
onomatopoeic word
onshore breeze
ont-
onto-
ontological argument
ontological proof
ontrary to expectation
onus probandi
onward and upward
onward course
onyx marble
oo-
oo-la-la
oolastema filament
oop cit
ooze leather
ooze out
op art
op artist
op cit
op-
opal blue
opal glass
opal gray
opal matrix
opal-tinted
opaline green
opaque color
opaque context
opaque projector
open Pandora's box
open a can of worms
open a show
open a show cold
open account
open aerial
open air
open an account with
open an offensive
open and aboveboard
open arms
open as day
open book
open chain
open circuit
open city
open classroom school
open cluster
open communion
open conflict
open country
open couplet
open court
open cut
open day
open discussion
open door
open enemy
open enrollment
open field
open fire
open for discussion
open forum
open game
open hand
open hand knot
open heart
open her up
open hostilities
open house
open housing
open into
open juncture
open letter
open mandate
open market
open market operations
open mind
open one's mouth
open order
open policy
open position
open primary
open quarrel
open question
open road, the
open rupture
open secret
open sentence
open sequence
open sesame
open shop
open sight
open space
open sphere
open stock
open string
open syllable
open system
open the
open the door to
open the draft
open the eyes
open the eyes to
open the floodgates
open the light
open the lock
open the mind
open the possibility of
open the purse
open the sluices
open the throttle
open the way
open the way for
open throttle
open time
open to
open to all
open to criticism
open to doubt
open to error
open to question
open to reproach
open to solution
open to suspicion
open to the public
open to view
open trailer
open union
open up
open up on
open up the possibility of
open verdict
open waggon
open war
open warfare
open wound
open your big fat mouth
open your big mouth
open your eyes
open your eyes to
open your lips
open your mind to
open your mouth
open-air
open-air theater
open-airish
open-airishness
open-airism
open-airness
open-and-shut
open-and-shut case
open-armed
open-armedly
open-back
open-back press
open-backed
open-bill
open-bladed
open-breasted
open-caisson
open-chested
open-circuit
open-coil
open-countenanced
open-crib
open-cribbed
open-door
open-door policy
open-doored
open- eared
open-end
open-end bond
open-end fund
open-end investment company
open-end wrench
open-ended
open-endedness
open-eyed
open-eyedly
open-face
open-face sandwich
open-faced
open-field
open-fire
open-flowered
open-frame girder
open-front
open-fronted
open-frontedness
open-gaited
open-grained
open-handed
open-handedly
open-headed
open-heart surgery
open-hearted
open-spacedness
open-spoken
open-spokenly
open-spokenness
open-tank
open-tide
open-timber
open-timber roof
open-timbered
open-timbre
open-top
open-topped
open-view
open-visaged
open-weave
open-web
open-webbed
open-webbedness
open-well
open-windowed
open-windowedness
open-work
open-worked
opencast mining
opening bit
opening die
opening gun
opening move
opening price
opening time
opening up
openness to sensation
openness to sight
openside planer
opera ballet
opera bouffe
opera box
opera buffa
opera buffas
opera cape
opera cloak
opera comique
opera dancer
opera festival
opera flannel
opera glass
opera glasses
opera hat
opinion poll
opinion sampling
opinion survey
opinion-sampler
opistho-
opium den
opium drinker
opium eater
opium poisoning
opium poppy
opium smoker
opium taker
opium-drinking
opium-drowsed
opium-eating
opium-shattered
opium-smoking
opium-taking
opossum mouse
opossum shrimp
opossum tree
opossum wood
opponent colors theory
opportunity cost
oppose change
opposed to
opposed to change
opposed-piston engine
opposing party
opposite as black and white
opposite as day and night
opposite as fire and water
opposite as light and darkness
opposite as the poles
opposite camp
opposite number
opposite poles
opposite prompt
opposite prompt side
opposite sex
opposite side
opposite tide
opposite to
opposite-leaved
oppositi-
opposition party
opposition to change
opposition voice
oppression of spirit
opra bouffe
opra comique
opsonic immunity
opsonic index
opsonic therapy
opsonocytophagic test
opt for
opt out
opt out of society
optic axis
optic chiasm
optic disc
optic disk
optic nerve
optic neuritis
optic thalamus
optical activity
optical air mass
optical altimeter
optical bench
optical character reader
optical crown
optical density
optical double star
optical flint
optical glass
optical illusion
optical instrument
optical instruments
optical isomer
optical isomerism
optical maser
optical microscope
optical path
optical physics
optical pyrometer
optical rotation
optical scanning
optical telescope
optical tooling
optically active
optically inactive
optico-
optimum capacity
optimum programming
optional bond
optional dividend
optional primary
optional referendum
opto-
opus araneum
opus consutum
opus incertum
opus isodomum
opus pectineum
opus pseudoisodomum
opus reticulatum
or Harry
or buts
or circuit
or else
or ever
or not
or steal
or the instrument evidencing
or-
ora pro nobis
oracle of Dodona
oral cavity
oral communication
oral contraceptive
oral evidence
oral examination
oral groove
oral history
oral interpretation
oral method
oral poetry
oral society
oral surgery
oral-genital stimulation
orang-outang
orang-utan
orange III
orange aphid
orange aurora
orange basketworm
orange berry
orange blossom
orange chipper
orange chrome yellow
orange chromide
orange coneflower
orange daisy
orange flower water
orange grower
orange gum
orange hawkweed
orange juice
orange lead
orange leaf rust
orange lily
orange madder
orange maggot
orange marmalade
orange melon
orange milkweed
orange milkwort
orange mineral
orange ocher
orange orchard
orange peel
orange peel reflector
orange peeler
orange pekoe
orange quince
orange quit
orange rust
orange scab
orange scale
orange spoon
orange stick
orange sulfur
orange sulphur
orange sunflower
orange swallowwort
orange tip
orange vermilion
orange water
orange wife
orange wine
orange-blossom
orange-colored
orange-crowned
orange-eared
orange-eye butterfly bush
orange-fleshed
orange-flower
orange-flowered
orange-headed
orange-hued
orange-leaf
orange-leaf beetle
orange-peel bucket
orange-red
orange-rufous
orange-shaped
orange-sized
orange-striped
orange-tailed
orange-tawny
orange-throated
orange-tip
orange-tipped
orange-tree
orange-winged
orange-yellow
orate fratres
oratio obliqua
oratio recta
oratorio society
orb of day
orb of night
orb weaver
orbiculato-
orbit sweeper
orbit the earth
orbit the moon
orbital angular momentum
orbital electron
orbital index
orbital quantum number
orbital velocity
orbiting geophysical observatory
orbiting observatory
orbiting solar observatory
orbito-
orchard bush
orchard fruit
orchard grass
orchard heater
orchard heating
orchard house
orchard oriole
orchard valve
orchella weed
orchestra bells
orchestra circle
orchestra leader
orchestra pit
orchestral bells
orchestral horn
orchestral musician
orchestral score
orchid family
orchid fly
orchid peat
orchid pink
orchid rose
orchid tree
orchid-orchilla weed
ordeal bark
ordeal bean
ordeal by battle
ordeal by fire
ordeal by lots
ordeal by water
ordeal root
ordeal tree
order about
order arms
order around
order bill of lading
order blank
order in council
order of battle
order of being
order of business
order of magnitude
order of nature
order of succession
order of the day
order of worship
order paper
order port
order up
order-book
ordered around
ordered field
ordered pair
orderly bin
orderly book
orderly officer
orderly room
orderly sergeant
ordinal number
ordinary Joe
ordinary algebra
ordinary differential equation
ordinary jubilee
ordinary life insurance
ordinary man
ordinary people
ordinary point
ordinary ray
ordinary run
ordinary run of things
ordinary seaman
ordinary share
ordinary shares
ordinary stock
ordinary wave
ordinary, the
ordinary-language philosophy
ordinato-punctate
ordnance corps
ordnance datum
ordnance engineer
ordnance engineering
ordnance map
ordnance officer
ordnance rocket
ordnance sergeant
ore bed
ore body
ore bridge
ore car
ore charger
ore chute
ore digger
ore dressing
ore handler
ore hearth
ore mill
ore miner
ore process
ore rotundo
ore shoot
ore smelter
ore weigher
ore-bearing
ore-buying
ore-crushing
ore-extracting
ore-forming
ore-handling
organic chemistry
organic chlorine
organic disease
organic electricity
organic fertilizer
organic matter
organic mechanism
organic mechanist
organic nature
organic phosphate insecticide
organic psychosis
organic remains
organic structure
organic unity
organization insignia
organization man
organized crime
organized ferment
organized labor
organized matter
organized militia
organized reserves
organo-
orgone box
orgone energy
orgone theory
orgone-energy accumulator
ori-ellipse
oriel window
orient blue
orient pink
orient red
orient the chart
orient the map
orient yellow
orient yourself
oriental beetle
oriental cockroach
oriental poppy
oriental roach
oriental rug
orientate yourself
orientation course
orifice meter
origanum oil
original condition
original jurisdiction
original sin
orthophosphorous acid
orthoptic exercises
ortolan bunting
orycto-
os magnum
osage orange
oscheo-
oscillating current
oscillating engine
oscillating universe theory
oscillation circuit
oscillation constant
oscillation engine
oscillation number
oscillation transformer
oscillation-cylinder engine
oscillator relay actuator
oscillator relay control
oscillatory behavior
oscillatory discharge
oscillograph data
oscillograph recorder
oscilloscope tube
oscine bird
osco-umbrian
osculating circle
osculating plane
osier cornel
osier willow
osier-bordered
osier-fringed
osier-like
osier-woven
osmi-iridium
osmio-
osmium lamp
osmium oxide
osmium tetroxide
osmo-
osmotic pressure
osmotic shock
osmund brake
osmund furnace
osmund iron
oso-berry
osseo-
osseous rheumatism
osso bucco
osso buco
oste-
osteitis deformans
ostensible motive
ostensible partner
ostentatious complexity
ostentatious devotion
ostentatious profundity
osteopo-
osteopathic hospital
ostraco-
ostrich fern
ostrich-egg
ostrich-feather
ostrich-feather grass
ostrich-plume
oswego tea
ot-
otaheite apple
other continuums
other face
other fish to fry
other from
other half
other self
other side
other side of the coin
other side of the picture
other some
other than
other things being equal
other world
other-directed
other-directedness
other-direction
other-group
other-self
otic vesicle
otitis externa
otitis interna
otitis media
otium cum dignitate
oto-
ottava alta
ottava bassa
ottava rima
otter board
out of a clear sky
out of a job
out of accord
out of action
out of all bounds
out of all proportion
out of all reason
out of bounds
out of breath
out of character
out of commission
out of conceit with
out of condition
out of contact
out of control
out of countenance
out of court
out of danger
out of date
out of debt
out of doors
out of earreach
out of earshot
out of employ
out of fashion
out of favor
out of focus
out of form
out of funds
out of gear
out of hand
out of harm's reach
out of harm's way
out of harness
out of hearing
out of humor
out of it
out of its element
out of joint
out of keeping
out of kelter
out of kilter
out of line
out of line with
out of luck
out of measure
out of order
out of phase
out of pitch
out of place
out of play
out of plumb
out of pocket
out of practice
out of print
out of proportion
out of question
out of range
out of reach
out of repair
out of season
out of shape
out of sight
out of sight out of mind
out of sorts
out of soundings
out of spirits
out of square
out of step
out of stock
out of style
out of sympathy
out of temper
out of the battle
out of the blue
out of the common
out of the habit of
out of the meshes
out of the mind
out of the ordinary
out of the pale
out of the perpendicular
out of the picture
out of the question
out of the running
out of the sphere of
out of the toils
out of the way
out of the woods
out of the world
out of this
out of this world
out of time
out of tone
out of touch
out of training
out of trim
out of true
out of tune
out of tune and harsh
out of turn
out of use
out of whack
out of whole cloth
out of wind
out of work
out of working order
out of your bearings
out of your control
out of your depth
out of your element
out of your hands
out of your head
out of your league
out of your mind
out of your mind with fear
out of your misery
out of your power
out of your reckoning
out of your senses
out of your skull
out of your teens
out of your wits
out on a limb
out on a rail
out on strike
out sister
out the window
out to
out tray
out with
out with it
out-
out-Herod
out-and-out
out-and-out lie
out-and-outer
out-argue
out-ask
out-babble
out-boarder
out-bound
out-bowed
out-brag
out-building
out-burn
out-by
out-cargo
out-clearer
out-clearing
out-college
out-country
out-craft
out-door
out-field
out-fielder
out-group
out-guard
out-herod
out-herod Herod
out-kneed
out-migrant
out-migrate
out-migration
out-of
out-of-bounds
out-of-center
out-of-course
out-of-date
out-of-dateness
out-of-door
out-of-doors
out-of-fashion
out-of-focus
out-of-hand
out-of-humor
out-of-joint
out-of-line
out-of-office
out-of-order
out-of-place
out-of-plumb
out-of-pocket
out-of-print
out-of-reach
out-of-school
out-of-season
out-of-stater
out-of-stock
out-of-the-common
out-of-the-way
out-of-the-world
out-of-town
out-of-towner
out-of-townish
out-of-tune
out-of-tunish
out-of-turn
out-of-vogue
out-office
out-parish
out-patient
out-pension
out-pointed
out-quarter
out-relief
out-room
out-sentry
out-settlement
out-soul
out-station
out-street
out-take
out-throw
out-thrust
out-top
out-travel
out-voter
out-wall
out-worker
outa sight
outboard cruiser
outboard motor
outboard motorboat
outboard profile
outburst of anger
outburst of laughter
outcast of society
outcrop mine
outdoor theater
outer atmosphere
outer automorphism
outer bar
outer barrister
outer ear
outer face
outer garments
outer jib
outer layer
outer planet
outer product
outer side
outer skin
outer space
outer station
outer-directed
outermost reaches of space
outfit car
outing flannel
outlaw strike
outlet box
outlet plate
outline stitch
outlook over
outlying picket
outpatient clinic
outpost of advancing day
outpost province
output conductance
output current
output data
output indicator
output lag
output measurement
output oscillation
output pulse
output quantity
output resistance
output signal
output transformer
output tube
output voltage
outrigger canoe
outrigger torpedo
outs with
outside broadcast
outside broker
outside caliper
outside chance
outside clinch
outside finish
outside form
outside home
outside hope
outside in
outside jaunting car
outside lap
outside lead
outside left
outside loop
outside market
outside of
outside pickup
outside right
outside roll
outside securities
outside the gates
outside the pale
outside work
outsmart yourself
outstanding accounts
outstanding debt
outstanding feature
outstanding securities
outstretched hand
outstrip the wind
outward appearance
outward show
outward-bound
outward-bonder
outward-facing
outward-flow turbine
ov-
oval chuck
oval compass
oval file
oval kumquat
oval window
oval-arched
oval-berried
oval-bodied
oval-bored
oval-faced
oval-figured
oval-headed
oval-lanceolate
oval-leaved
oval-shaped
oval-truncate
oval-visaged
ovals of Cassini
ovario-
ovate-acuminate
ovate-cordate
ovate-cuneate
ovate-cylindrical
ovate-cylindrical
ovate-deltoid
ovate-ellipsoidal
ovate-elliptic
ovate-lanceolate
ovate-leaved
ovate-oblong
ovate-orbicular
ovate-rotundate
ovate-serrate
ovate-serrate
ovate-subulate
ovate-triangular
ovato-
on builder
oven furnace
oven thermometer
oven tit
oven wood
oven-bake
oven-baked
oven-bird
oven-dried
oven-dry
oven-ready
oven-shaped
over a barrel
over again
over against
over and above
over and over
over and over again
over head and ears
over head and ears in
over head and ears in love
over my dead body
over the board
over the counter
over the hill
over the hills and far away
over the hump
over the side
over the top
over the water
over there
over your head
over-
over-abound
over-age
over-all
over-and-over stitch
over-anxious
over-arm
over-bold
over-capitalize
over-caution
over-cautious
over-confident
over-correct
over-counter
over-credulous
over-curious
over-dear
over-deck
over-delicate
over-develop
over-discharge
over-eager
over-earnest
over-estimate
over-excite
over-exert
over-expose
over-feed
over-gear
over-greedy
over-hard
over-hasty
over-indulge
over-inform
over-issue
over-king
over-labour
over-liberal
over-lip
over-long
over-measure
over-modest
over-nice
over-people
over-persuade
over-please
over-populate
over-print
over-produce
over-proof
over-proportion
over-read
over-reckon
over-refine
over-rent
over-riding
over-round
over-rule
over-scrupulous
over-sell
over-shoe
over-size
over-soul
over-subscribe
over-supply
over-the-counter
over-the-counter drug
over-the-counter market
over-the-counter securities
over-train
over-trouble
over-trust
over-under
over-value
over-weight
over-wet
over-wise
over-zeal
overall length
overbearing pride
overcast stitch
overcome your resistance
overcome yourself
overcorrection of error
overcurrent relay
overdo it
overdose of
overdraft kiln
overdraw your account
overdrawn account
overextend yourself
overflow bug
overflow pipe
overflow with
overflow with energy
overflow with gratitude
overflowing eyes
overhand knot
overhead camshaft
overhead door
overhead lighting
overhead price
overhead railway
overhead-valve engine
overheated economy
overland stage
overlap fault
overlap radar
overlay glass
overload breaker
overload circuit
overload circuit breaker
overload relay
overload starter
overload switch
overlook distinctions
overlook no possibility
overlook nothing
overlooking no possibility
overly permissive
overmonopo-lizing
overnight bag
overnight sensation
overnight telegram
overopenness to conviction
overopenness to persuasion
overplay your hand
overreach yourself
overreact to
overseas bar
overseas cap
overseas operations
overseas telegram
overshoot the field
overshoot the mark
overshot wheel
overstay the market
overstep the bounds
overstep your bounds
overstep your prerogatives
overstep your rights
overstuffed chair
overt act
overthrow your mind
overthrow your reason
overthrust fault
overtime pay
overture and beginners
overweening pride
overwhelming defeat
ovi-
ovo-
ovo-testis
ovo-viviparous
owala oil
owala tree
owe a grudge
owe it to
owe it to yourself
owe you no thanks
owing to
owl butterfly
owl car
owl fly
owl midge
owl monkey
owl moth
owl parrot
owl swallow
owl's light
owl's-crown
owl-eyed
owl-faced
owl-glass
owl-haunted
owl-headed
owl-light
owl-sighted
owl-wide
owl-winged
owlet moth
owlet nightjar
own accord
own account
own authority
own choice
own correspondent
own discretion
own free will
own hands
own hook
own initiative
own power
own responsibility
own say-so
own sweet way
own up
own volition
own way
own yourself in the wrong
own-form
own-root
own-rooted
owning up
ox antelope
ox ball
ox balm
ox bile
ox bot
ox daisy
ox dance
ox feather
ox fence
ox heart
ox louse
ox rail
ox ray
ox sole
ox team
ox warble
ox-
ox-bird
ox-bow
ox-eye
ox-eyed
ox-eyed arch
ox-foot
ox-harrow
ox-head
ox-headed
ox-horn
ox-stall
ox-tail
ox-tongue
ox-tongue partisan
oxa-
oxal-
oxalic acid
oxalo-
oxbow chest
oxbow front
oxbow lake
oxeye bean
oxeye camomile
oxeye daisy
oxeye molding
oxford cloth
oxford down
oxford movement
oxi-
oxidation number
oxidation potential
oxidation state
oxidation-reduction
oxide blue
oxide brown
oxide purple
oxide red
oxide yellow
oxidizing agent
oxidizing flame
oxime group
oxo process
oxo reaction
oxo-
oxonium compound
oxtail soup
oxter plate
oxy acid
oxy-
ox-acetylene
oxy-calcium
oxy-salt
oxyacetylene blowpipe
oxyacetylene cutting
oxyacetylene torch
oxyacetylene welder
oxyacetylene welding
oxycalcium light
oxychlor-
oxodiacetic acid
oxygen acid
oxygen effect
oxygen lance
oxygen mask
oxygen ratio
oxygen recorder
oxygen tank
oxygen tent
oxygen therapy
oxygen-acetylene
oxygen-acetylene cutting
oxygen-acetylene welding
oxygen-hydrogen welding
oxyhydrogen blowpipe
oxyhydrogen light
oxyhydrogen microscope
oxyquinoline sulphate
oyer and terminer
oyster agaric
oyster bank
oyster bar
oyster bay
oyster bed
oyster canoe
oyster catcher
oyster crab
oyster cracker
oyster culture
oyster dredge
oyster drill
oyster farmer
oyster fork
oyster fungus
oyster grass
oyster gray
oyster knife
oyster mine
oyster mushroom
oyster park
oyster pink
oyster plant
oyster plover
oyster rake
oyster rock
oyster scale
oyster schooner
oyster scow
oyster shell
oyster sloop
oyster stew
oyster tongs
oyster tree
oyster white
oyster-catcher
oyster-culturist
oyster-shaped
oyster-shell bark louse
oyster-shell scale
oysters in the half shell
oysters on the half shell
oystershell scale
oz ap
oz av
oz t
ozaena-
ozon-
ozone layer
ozone paper
ozonic ether
p & p
p's and q's
p-n junction
p-type
p/e ratio
pF
pH
pH meter
pW
pa system
paca-rana
pace egg
pace off
pachy-
pacific time
pack a punch
pack animal
pack away
pack bearer
pack carrier
pack drill
pack driver
pack duck
pack hoister
pack horse
pack ice
pack in
pack mule
pack needle
pack of cigarettes
pack of dogs
pack of lies
pack of nonsense
pack of troubles
pack off
pack on
pack on sail
pack puller
pack rat
pack road
pack rolling
pack sack
pack sheet
pack tent
pack the deal
pack train
pack twine
pack up
pack wall
pack-bearing
pack-horse
pack-laden
pack-needle
pack-saddle
package advertising
package bargaining
package conveyer
package deal
package price
package store
package tour
packaged goods
packaged house
packaged tour
packed caucus
packed cell volume
packed deal
packed jury
packed like herrings
packed like sardines
packed out
packed-up
packet boat
packet day
packet folio
packet ship
packet-boat
packing box
packing case
packing fraction
packing house
packing nut
packing plant
packing ring
pad crimp
pad eye
pad foot
pad groom
pad hook
pad horse
pad saddle
pad saw
pad stone
padded cell
paddle beam
paddle board
paddle boat
paddle box
paddle hole
paddle plate
paddle shaft
paddle staff
paddle steamer
paddle tennis
paddle tumbler
paddle wheel
paddle wing
paddle your own canoe
paddle-shaped
paddle-wheel
paddock pipe
paddy blast
paddy field
paddy lucern
paddy wagon
paddy-bird
paddyswhack almanac
padge owl
padlock injunction
padlock law
padouk wood
padparadschah sapphire
paean of cheers
paed-
paedo-
pagan deity
pagan divinity
pagan priest
pagano-Christian
pagano-Christianism
page boy
page chair
paint binder
paint bridge
paint brusher
paint cleaner
paint drier
paint finish
paint frame
paint grinder
paint horse
paint hose
paint in bright colors
paint in glowing colors
paint in its true colors
paint keg
paint locker
paint mixer
paint pony
paint pot
paint pretty pictures of
paint primer
paint process
paint remover
paint roller
paint room
paint strake
paint the lily
paint the town red
paint thinner
paint work
paint yourself into a corner
paint-beplastered
paint-filler
paint-filling
paint-mixing
paint-removing
paint-splashed
paint-spotted
paint-spraying
paint-stained
paint-washing
paint-worn
painted beauty
painted bunting
painted cup
painted grass
painted greenling
painted lady
painted pony
painted snipe
painted tongue
painted trillium
painted turtle
painted woman
painter etcher
painter etching
painter graver
painter graving
painter stainer
painter's colic
painter's cream
painter-stainer
painting with the gift of speech
pair annihilation
pair case
pair of bellows
pair of binoculars
pair of compasses
pair of glasses
pair of pincers
pair of scales
pair of scissors
pair of spectacles
pair of suspenders
pair of tongs
pair of trousers
pair of tweezers
pair of twins
pair of virginals
pair of winks
pair off
pair production
pair royal
pair-horse
pair-oar
pair-oared
pair-royal
paired with
paisley print
pajama party
pak-choi
pak-choi cabbage
pak-chois
pakpak-lauin
pal around with
pal up
pal up with
pal with
car
palace court
guard
revolution
palaeo-
palais de danse
glide
kino
guard
guard
palatial residence
tonsil
to as a corpse
as a forpined ghost
a ghost
death
his shirt
bark
blue chip
brandy
broomrape
catechu
color
corydalis
elder
horse
laurel
rider

pale-blooded
blue
bright
cheeked
colored
complexioned
-dried
-eared
-eyed
-face
-faced
-gray
-green
-hued
-leaved
-livered
-looking
-red
pale-reddish
pale-refined
pale-souled
pale-spirited
pale-spotted
pale-striped
pale-tinted
pale-visaged
pale-yellow
pale-
paleolithic man
paleontological geology
pales weevil
palette knife
paling board
palisade cell
palisade crown
palisade parenchyma
palisade worm
palkee gharry
pall-like
pall-mall
palladium red
palladium sponge
pallet board
pallet box
pallet eye
pallet knife
pallet leather
pallet stone
pallet tail
pallial sinus
palliative operation
palliative treatment
pallid-faced
pallid-fuliginous
pallid-gray
pallid-looking
pallid-ochraceous
pallid-tomentose
pallio-
pallisado crown
pally walsy
palm beetle
palm branch
palm butter
palm cabbage
palm capital
palm cat
palm chat
palm civet
palm cockatoo
palm crab
palm dove
palm family
palm fern
palm for
palm grass
palm grease
palm greaser
palm greasing
palm green
palm grub
palm honey
palm house
palm kale
palm kernel
palm leaf
palm lily
palm marten
palm nut
palm off
palm off on
palm oil
palm on
palm peach
palm play
palm reader
palm squirrel
palm starch
palm stay
palm sugar
palm sunday
palm swift
palm upon
palm vaulting
palm warbler
palm wax
palm weevil
palm willow
palm wine
palm worm
palm-bearing
palm-crowned
palm-fringed
palm-kernel oil
palm-leaf fan
palm-leaf hat
palm-leaved grass
palm-oil
palm-oil chop
palm-reading
palm-shaded
palm-shaped
palm-thatched
palm-tree
palm-veined
palma christi
palma samandoca
palmarosa oil
palmati-
palmella stage
palmer fly
palmer tree
palmer trout
palmer worm
palmer-worm
palmetto barrens
palmetto flag
palmetto green
palmetto scrub
palmi-
palmitic acid
palmy days
palmyra wood
palo blanco
palolo worm
palpebral fissure
palpitation of the heart
palsy-quaking
palsy-shaken
palsy-shaking
palsy-sick
palsy-stricken
palsy-struck
palsy-walsy
paltry affair
paludal fever
paludi-
paly-bendy
pam head
pampas cat
pampas deer
pampas formation
pampas fox
pampas grass
pampas-grass
pamper yourself
pampered darling
pan amalgamation
pan american day
pan boiler
pan bolt
pan broiler
pan conveyer
pan fish
pan for gold
pan grave
pan gravy
pan head
pan ice
pan out
pan shot
pan supari
pan-
pan-Latin
pan-Saxon
pan-american
pan-americanism
pan-anglican
pan-broil
pan-broiled
pan-broiling
pan-fired
pan-fried
pan-fry
pan-frying
pan-headed
pan-leaf
pan-loaf
pan-pipe
pan-sexualism
pan-shaped
pancake bell
pancake engine
pancake ice
pancake landing
pancake plant
panchen lama
panchromatic film
pancreas ptyalin
pancreat-
pancreatic digestion
pancreatic duct
pancreatic fibrosis
pancreatic juice
pancuronium bromide
panda car
pandemic disease
pander to
pandora shell
panel beater
panel bed
panel board
panel body
panel den
panel discussion
panel heating
panel house
panel length
panel lighting
panel patch
panel photograph
panel pin
panel plane
panel point
panel saw
panel show
panel strip
panel switching
panel system
panel thief
panel truck
panel van
panel wall
panel wheel
pangs of conscience
panic bar
panic bent
panic bolt
panic fear
panic grass
panic party
panic terror
panic-driven
panic-pale
panic-prone
panic-proof
panic-stricken
panic-strike
panic-struck
panic-stunned
panne velvet
pannier pack
pannikin boss
panoramic radar
panoramic shot
panoramic sight
panoramic telescope
pansy orchid
pansy purple
pansy violet
pansy-colored
pansy-growing
pansy-purple
pansy-violet
pansy-yellow
pant after
pant for
pant suit
pant-
panta-
panttechnicon van
panther cat
panther cowrie
panther lily
panther piss
pantie girdle
pantile lath
pantile roof
panting stringer
panto-
pantograph snaffle
pantograph trolley
pantomime dame
pantothenic acid
pants suit
panty girdle
panty hose
panty-hose
panzer division
panzer warfare
papa rock
papal brief
papal cross
papal infallibility
papanicolaou test
papaw family
paper sculpture
paper seller
paper shale
paper sorter
paper stainer
paper standard
paper surplus
paper tape
paper tiger
paper title
paper towel
paper toweling
paper tree
paper varnisher
paper war
paper wasp
paper work
paper works
paper-backed
paper-baling
paper-bound
paper-capped
paper-chasing
paper-clothed
paper-coated
paper-coating
paper-collared
paper-covered
paper-cutter
paper-cutting
paper-drilling
paper-embossing
paper-faced
paper-filled
paper-folding
paper-footed
paper-hangings
paper-lined
paper-mended
paper-palisaded
paper-paneled
paper-patched
paper-saving
paper-selling
paper-shell
paper-shelled
paper-shuttered
paper-slitting
para-nitrophenol
para-phenetidine
para-rescue
para-ski
para-toluidine
parabolic aerial
parabolic antenna
parabolic reflector
parabolic-reflector microphone
parachute approach
parachute badge
parachute brake
parachute drogue
parachute flare
parachute jump
parachute jumper
parachute light
parachute light ball
parachute rigger
parachute spinnaker
parachute troops
paracoto bark
parade armor
parade bed
parade ground
parade rest
parade your wares
paradental pyorrhea
paradigm case
paradise apple
paradise bird
paradise duck
paradise finch
paradise fish
paradise flower
paradise flycatcher
paradise gallery
paradise grackle
paradise green
paradise grosbeak
paradise nut
paradise plant
paradise seed
paradise stock
paradise tree
paradox gun
paradoxical sleep
paraffin distillate
paraffin hydrocarbon
paraffin oil
paraffin paper
paraffin scale
paraffin series
paraffin wax
paraffin xylol
paraffin-base
paraffin-base oil
paraglyph printing
paragonite schist
parainfluenza virus
paralinguistic communication
parallel axiom
parallel bar
parallel bars
parallel column
parallel cousin
parallel cousin marriage
parallel dash
parallel fifths
parallel file
parallel forces
parallel intervals
parallel line
parallel middle body
parallel motion
parallel octaves
parallel of altitude
parallel of latitude
parallel operation
parallel postulate
parallel projection
parallel rule
parallel ruler
parallel rulers
parallel rules
parallel sailing
parallel series
parallel top
parallel trench
parallel turn
parallel vector
parallel-flow turbine
parallel-line scanning
parallel-veined
parallelogram law
parallelogram of forces
parallelogram rule
paralysis agitans
paralysis agitans
paralysis of authority
paralytic dementia
paralytic rabies
paralytic stroke
parametric amplifier
paramine brown
paramount estate
paranitraniline red
paranoiac psychosis
paranoid delusion
paranoid personality
paranoid psychosis
paranoid schizophrenia
paraphase amplifier
parasite drag
parasite resistance
parasitic drag
parasitic plant
parasitic suppressor
parasitic vowel
parasol ant
parasol fern
parasol mushroom
parasol pine
parasol skirt
parasol wing
parasol-shaped
parasympathetic nervous system
parathyroid extract
parathyroid gland
parathyroid hormone
parathyroid tetany
paratoid gland
paratroop tactics
paratrooper boots
paratyphoid bacillus
paratyphoid fever
parce que
parcel carrier
parcel checker
parcel delivery
parcel gilding
parcel of land
parcel out
parcel paper
parking light
carling lot
carling meter
carling orbit
carling ramp
carling ticket
carlington's disease
parl proc
parlatoria scale
parlament cake
parlament heel
parlament hinge
parlament house
parlament man
parliamentary agent
parliamentary government
parliamentary law
parliamentary private secretary
parliamentary secretary
parliamentary train
parlor Bolshevik
parlor boarder
parlor car
parlor grand
parlor house
parlor pink
parlour car
parlour game
parlous straits
parochial church council
parochial council
parochial school
parol arrest
parol contract
parole femne
parole law
paroquet auklet
paroquet bur
parotid duct
parotid gland
paroxysmal tachycardia
parquet circle
parquet floor
parrel truck
parrot bullfinch
parrot cry
parrot disease
parrot fever
parrot fish
parrot green
parrot mouth
parrot's-bill
parrot's-feather
parrot-beak
parrot-beaked
parrot-billed
parrot-coal
parrot-fashion
parrot-fish
parrot-gray
parrot-learned
parrot-mouthed
parrot-nosed
parrot-red
parrot-toed
pars intermedia
parsley bed
parsley crown
parsley fern
parsley pie
parsley piert
parsley wreath
parsley-flavored
parsley-leaved
parsnip wine
parson bird
parson's nose
parson-bird
part and parcel
part by part
part company
part exchange
part from
part gate
part music
part of speech
part of writing
part owner
part singing
part song
part time
part with
part work
part-created
part-done
part-earned
part-finished
part-heard
part-off
part-opened
part-owner
part-score
part-song
part-time
part-time worker
part-timer
part-writing
partake in
partake of
partake of the Lord's Supper
parted and fretty
parted from
parted per tierce
parterre box
parterre boxes
parti pris
parti-color
parti-colored
parti-coloured
parti-decorated
parti-mortgage
parti-named
parti-striped
partial amnesia
partial blindness
partial darkness
partial denture
partial derivative
partial differential
cal part differential equation
partial eclipse
partial fraction
partial fractions
partial hold deck
partial ordering
partial pressure
partial product
partial score
partial sum
partial to
partial tone
partial vacuum
partially ordered
partially ordered set
pariceps criminis
participant observation
participant observer
participate in
participating bond
participating insurance
participating mortgage
participating preferred
participating preferred stock
participatory democracy
particle accelerator
particle counter
particle of difference
particle physics
particle separation
particle velocity
particular affirmative
particular average
particular choice
particular estate
particular lien
particular negative
particular quantifier
particular solution
particulate inheritance
parties litigant
partin of wood
parting bead
parting chisel
parting cup
parting gate
parting of the ways
parting shard
parting shot
parting strip
parting tool
parting words
partisan election
partisan politics
partisan spirit
partition bulkhead
partition law
partition line
partner in crime
partner plate
partnered with
partners with
pass in the thoughts
pass in your checks
pass in your chips
pass into
pass into your hands
pass judgment
pass key
pass law
pass master
pass muster
pass off
pass off on
pass on
pass out
pass out cold
pass out of sight
pass out of the picture
pass over
pass over Jordan
pass over lightly
pass point
pass sentence
pass sentence on
pass the Rubicon
pass the buck
pass the eyes over
pass the fingers over
pass the hat
pass the queer
pass the time
pass the time of day
pass through
pass through your head
pass through your mind
pass time
pass to the order of the day
pass under review
pass under the name of
pass understanding
pass up
pass upon
pass water
pass with flying colors
pass you by
pass your lips
pass your time in
pass your word
pass-
pass-book
pass-by
pass-bye
pass-guard
pass-key
pass-man
pass-out
passage at arms
passage bed
passage bird
passage board
passage boat
passage d'arms
passage grave
passage hawk
passage money
passage of arms
passage of time
passage penny
passage work
passage-boat
passage-free
passage-making
passage-work
passaree boom
passe-partout
passe-partouts
passe-temps
passed away
passed ball
passed by
passed master
passed on
passed out
passed over
passed up
passed-master
passenger agent
passenger capacity
passenger car
passenger density
passenger falcon
passenger list
passenger locomotive
passenger manager
passenger mile
passenger mileage
passenger pigeon
passenger plane
passenger steamer
passenger train
passenger-mile
passenger-pigeon
passer-by
passerine bird
passers-by
passing around
passing away
passing belief
passing bell
passing by
passing fancy
passing note
passing over
passing shot
passing spring
passing strake
passing strange
passing the buck
passing through
passing up
passing word
passing-note
passion cross
passion flower
passion fruit
passion nail
passion play
passion sunday
passion week
passion-blazing
passion-breathing
passion-colored
passion-distracted
passion-driven
passion-feeding
passion-filled
passion-flower
passion-fraught
passion-frenzied
passion-guided
passion-kindled
passion-kindling
passion-led
passion-proud
passion-ridden
passion-shaken
passion-smitten
passion-stirred
passion-stung
passion-swayed
passion-thrilled
passion-thrilling
passion-torn
passion-tossed
passion-wasted
passion-winged
passion-worn
passive algolagnia
passive immunity
passive noun
passive obedience
passive reason
passive resistance
passive resister
passive self-annihilation
passive voice
passive-aggressive reaction
passive-dependence reaction
passive-minded
passive measures
past and gone
past bearing
past comprehension
past danger
past dispute
past due
past expectation
past experience
past history
past hope
past master
past mistress
past one's head
past participle
past perfect
past perfect tense
past praying for
past progressive tense
past recall
past recollection
past tense
past time
past times
past use
past your prime
past-due
past-master
paste grain
paste mold
paste on
paste wash
paste water
paste-egg
paste-up
pastel blue
pastel color
pastel gray
pastel orange
pastel painting
pastel-tinted
pasteur treatment
pasteurized milk
pastor-elect
pastoral care
pastoral counseling
pastoral drama
pastoral elegy
pastoral epistle
pastoral letter
pastoral poet
pastoral poetry
pastoral prayer
pastoral staff
pastoral theology
pastrami sandwich
pastry bag
pastry chef
pastry cook
pastry cream
pastry custard
pastry flour
pastry shell
pastry tube
pasture bird
pasture grass
pasture land
pasture on
pasture rose
pasture thistle
pasty-faced
pasty-footed
pat hand
pat on the back
pat on the cheek
pat on the head
pat pend
pat yourself on the back
pat-a-cake
pat-pat
patch board
patch bolt
patch box
patch pocket
patch test
patch things up
patch together
patch up
patch up a friendship
patch up a quarrel
patch-box
patching plaster
patchouli oil
patchwork quilt
pate d'amande
pate de foie gras
patellar reflex
patent anchor
patent block
patent flour
patent hammer
patent leather
patent light
patent log
patent medicine
patent note
patent office
patent right
patent slip
patent space
patent still
patent-cut jib
pater patratus
paternal ancestor
paternal domicile
paternal love
paternal roof
paternity suit
paternoster line
path of least resistance
path-
pathetic fallacy
patho-
pathologic anatomy
pathological chemistry
pathological condition
pathological drinker
pathological drunkenness
pathological indecisiveness
pathological intoxication
pathological liar
pathological lying
pathological type
patience dock
patience of Job
patience-dock
patient as Job
patient man
patient of
patina green
patio process
patr-
patres conscripti
patri-
patria potestas
patriarchal basilica
patriarchal cross
patriarchate of Alexandria
patriarchate of Antioch
patriarchate of Constantinople
patriarchate of Jerusalem
patriots' day
patristic philosophy
patristic theology
patrol boat
patrol bomber
patrol car
patrol plane
patrol torpedo boat
patrol wagon
patron of drama
patron saint
patronal festival
patronizing attitude
patten maker
patter song
pattern after
pattern bargaining
pawl head
pawl post
pawl rim
pawn ticket
pax in bello
pax tecum
pax vobiscum
pay COD
pay a compliment
pay a visit
pay addresses to
pay after deductions
pay after taxes
pay and allowances
pay as you go
pay at sight
pay attention
pay attention to
pay attentions to
pay back
pay back in full measure
pay bed
pay by installments
pay cash
pay cash down
pay cash on delivery
pay cash on the barrelhead
pay clerk
pay close attention
pay conscience money
pay court to
pay damages
pay dearly
pay dirt
pay divine honors to
pay down
pay envelope
pay exorbitantly
pay for
pay heed
pay heed to
pay homage to
pay honor to
pay in
pay in advance
pay in full
pay in kind
pay load
pay mind to
pay more than it's worth
pay no attention
pay no attention to
pay no mind
pay no regard to
pay off
pay off old scores
pay off the head
pay old debts
pay on
pay one in his own coin
pay out
pay over
pay phone
pay raise
pay regard to
pay reparation
pay reparations
pay respect to
pay roll
pay scot and lot
pay someone back in his own coin
pay spot cash
pay station
pay strict attention
pay suit to
pay the bill
pay the bills
pay the costs
pay the debt of nature
pay the debt to nature
pay the forfeit
pay the penalty
pay the piper
pay the shot
pay through the nose
pay to the tune of
pay too much
pay tribute
pay tribute to
pay up
pay you in your own coin
pay you in your own currency
pay your
pay your addresses to
pay your court to
pay your dues
pay your respects to
pay your share
pay your way
pay-
pay-TV
pay-all
pay-as-you-go
pay-day
pay-off
pay-rent
pay-roller
paying back
paying guest
paying off
paying out
paying the bills
paying up
paymaster general
paymaster-generalship
payment bill
payment in kind
payno regard to
payroll deduction insurance
payroll padding
pe-tsai cabbage
pea bean
pea beetle
pea blight
pea coal
pea comb
pea crab
pea flower
pea green
pea grit
pea huller
pea in the shoe
pea jacket
pea measle
pea mildew
pea moth
pea ore
pea rifle
pea sheller
pea shrub
pea soup
pea souper
pea tree
pea vetchling
pea vine
pea weevil
pea-brained
pea-chick
pea-coat
pea-combed
pea-flower
pea-flowered
pea-jacket
pea-picking
pea-shoot
pea-sized
pea-soup
pea-soup fog
pea-souper
pea-soupy
pea-tree
peabody bird
peace and quiet
peace be to this house
peace be to you
peace be with you
peace be within thy walls
peace conference
peace dove
peace establishment
peace feelers
peace giver
peace guild
peace lover
peace of God
peace of heart
peace of mind
peace of soul
peace of spirit
peace offensive
peace offer
peace offering
peace officer
peace pipe
peace warrant
peace-abiding
peace-blessed
peace-breathing
peace-bringing
peace-enamored
peace-giving
peace-inspiring
peace-keeping force
peace-loving
peace-lulled
peace-offering
peace-preaching
peace-procuring
peace-restoring
peace-trained
peaceful change
peaceful coexistence
peaceful death
peaceful end
peaceful protest
peaceful sleep
peach aphid
peach bacteriosis
peach bark beetle
peach bell
peach blight
peach blister
peach bloom
peach blossom
peach borer
peach canker
peach color
peach fuzz
peach melba
peach moth
peach red
peach rosette
peach twig borer
peach wine
peach-blossom
peach-blow
peach-colored
peach-kernel oil
peach-leaved
peachblossom pink
peachbloom glass
peachtree borer
peachy-keen
peacock blue
peacock butterfly
peacock fan
peacock green
peacock heron
peacock iris
peacock moth
peacock ore
peacock pheasant
peacock poppy
peacock worm
peacock's feather
peacock's tail
peacock-blue
peacock-feathered
peacock-fish
peacock-flower
peacock-herl
peacock-hued
peacock-spotted
peacock-voiced
peak crest
peak factor
peak load
peak out
peaked cap
peaking circuit
peaky-faced
peal of applause
peal of laughter
peal of thunder
peal ringing
peanut bar
peanut brittle
peanut butter
peanut butter and jelly sandwich
peanut flour
peanut gallery
peanut oil
peanut politician
peanut politics
peanut tube
peanut worm
pear blight
pear blight beetle
pear borer
pear brandy
pear gauge
pear haw
pear midge
pear scale
pear shell
pear slug
pear squash
pear thorn
pear thrips
pear-leaved
pear-shaped
pearl ash
pearl barley
pearl blue
pearl bluish
pearl blush
pearl coating
pearl cotton
pearl danio
pearl diabase
pearl disease
pearl diver
pearl diving
pearl edge
pearl essence
pearl eye
pearl filler
pearl fisher
pearl fishing
pearl grain
pearl gray
pearl grey
pearl harbor
pearl hardening
pearl hen
pearl millet
pearl molding
pearl mussel
pearl oyster
pearl shell
pearl sheller
pearl shelling
pearl sinter
pearl spar
pearl spurry
pearl tapioca
pearl white
pearl-ash
pearl-barley
pearl-bearing
pearl-besprinkled
pearl-bordered
pearl-bush
pearl-coated
pearl-colored
pearl-crowned
pearl-encrusted
pearl-eyed
pearl-fishery
pearl-gemmed
pearl-gray
pearl-handled
pearl-headed
pearl-hued
pearl-like
pearl-lined
pearl-lipped
pearl-oyster
pearl-pale
pearl-pure
pearl-round
pearl-set
pearl-shell
pearl-studded
pearl-toothed
pearl-white
pearl-wreathed
pearl-yielding
pearly everlasting
pearly king
pearly nautilus
pearly-white
pearten up
peas in a pod
peasant blue
peasant cunning
peasant holder
peasant proprietor
peasant proprietorship
peasant revolt
peasant sleeve
peasant-born
pease brose
pease cod
pease pudding
peasecod breastplate
peat bank
peat bog
peat coal
peat digger
peat fiber
peat gas
peat hag
peat machine
peat moor
peat moss
peat reek
peat soil
peat spade
peat-roofed
peat-smoked
peau de soie
pebble cast
pebble dash
pebble gravel
pebble grinder
pebble heater
pebble leather
pebble mill
pebble powder
pebble vetch
pebble-covered
pebble-dashed
pebble-paved
pebble-paven
pebble-shaped
pebble-stone
pebble-strewn
pecan brown
peche melba
peck at
peck horn
peck of troubles
peck order
peckerwood mill
pecking order
peaky cypress
pectic acid
pectin sugar
pectini-
pectoral arch
pectoral cross
pectoral fin
pectoral girdle
pectoral muscle
pectoral sandpiper
peculiar expression
peculiar institution
peculiar people
peculiar thing
peculiar trait
pecuniary advantage
pecuniary aid
pecuniary resources
ped-
pedal board
pedal brake
pedal cords
pedal coupler
pedal curve
pedal extremity
pedal ganglion
pedal key
pedal keyboard
pedal note
pedal organ
pedal piano
pedal point
pedal polygon
pedal pushers
pedal surface
pedal wheel
pedal-pushers
pedately cleft
pedately veined
pedati-
peddler's cart
pede cloth
pede window
pedestal box
pedestal mount
pedestal pile
pedestal rock
pedestal table
pedestrian crossing
pedi-
pedigree clause
pedo-
pedunculate oak
pee your pants laughing
pee-pee
peek in
peek-bo
peel end
peel off
peel tower
peeled eye
peelie-wally
peeling disease
peen hammer
peen-to
peening rammer
peep frog
peep hawk
peep into the future
peep nap
peep of day
peep out
peep plate
peep show
peep sight
peep-bo
peep-hole
peep-show
peeping tom
peer at
peer group
peer into
peer of the realm
peer out
peers of the realm
peevish person
peg along
peg at
peg away
peg down
peg drum
peg float
peg leg
peg on
peg out
peg pants
peg the market
peg to hang on
peg tooth
peg top
peg-a-lantern
peg-tooth harrow
peg-top
pegged market
pegging awl
peking man
pelagic zone
pelargonic acid
pelargonium oil
pelican crossing
pelican fish
pelican flower
pelican hook
pell mell
pell-mell
pellagra-preventive factor
pellet bow
pellet molding
pellitory bark
pelo-
pelorus card
pelt rot
pelt wool
pelti-
pelting rain
pelvi-
pelvic arch
pelvic fin
pelvic girdle
pembrooke table
pen and ink
pen cancellation
pen driver
pen driving
pen feather
pen friend
pen in
pen keeping
pen machine
pen maker
pen mating
pen name
pen nib
pen pal
pen palsy
pen picture
pen point
pen portrait
pen portraiture
pen pot
pen pusher
pen pushing
pen sketch
pen up
pen yan
pen-
pen-and-ink
pen-bearing
pen-cancel
pen-clerk
pen-driver
pen-feather
pen-feathered
pen-fish
pen-pusher
pen-shaped
pen-tailed
pen-written
penal code
penal colony
penal institution
penal interest
penal law
penal retribution
penal servitude
penal settlement
penalty area
penalty bench
penalty box
penalty clause
penalty double
penalty envelope
penalty goal
penalty kick
penalty killer
penalty rates
penalty stroke
penang lawyer
penang nut
penang-lawyer
pencil beam
pencil blue
pencil box
pencil case
pencil cedar
pencil compass
pencil diamond
pencil drawing
pencil driver
pencil driving
pencil flower
pencil gate
pencil gating
pencil holder
pencil maker
pencil pusher
pencil pushing
pencil rod
pencil sharpener
pencil sharpening
pencil stone
pencil-beam antenna
pencil-case
pencil-formed
pencil-mark
pencil-shaped
pendant bow
pendant cloud
pendant post
pendant switch
pendant tackle
pendant-shaped
pendant-winding
pendent post
pendente lite
pendulum bob
pendulum clock
pendulum level
pendulum motion
pendulum press
pendulum pump
pendulum watch
pendulum wheel
penetrate into the mind
penetrated with
penetrating eye
penetrating look
penguin duck
penguin grass
peninsula pine
penis envy
penitent form
penitential Psalm
penitential act
penitential exercise
penitentiary book
pennant fish
pennant hoist
pennant-winged
pennati-
penner-up
penni-
penniless man
pennsylvania dutch
penny ante
penny arcade
penny bank
penny black
penny bridal
penny cake
penny dreadful
penny gaff
penny grass
penny hat
penny horrible
penny loaf
penny pies
penny pincher
penny post
penny rent
penny stock
penny stocks
penny tree
penny wedding
penny wheep
penny whistle
penny wisdom
penny-a-line
penny-a-liner
penny-cress
penny-dreadful
penny-farthing
penny-gaff
penny-grass
penny-pinch
penny-pincher
penny-pinchling
penny-plain
penny-stone
penny-whistle
penny-wise
penny-wise and pound-foolish
pension off
pensionable age
pensioned off
pensioning off
pent road
pent roof
pent-roof
pent-up
pent-up in the memory
penta-
penta-acetate
pentaerythritol tetranitrate
pentagon dodecahedron
pentagonal dodecahedron
pentane lamp
pentanoic acid
pentatonic scale
penteconta-
penthouse roof
pentobarbitone sodium
pentose nucleic acid
pentose sugar
pentyl acetate
pentyl alcohol
pentyl group
peony dahlia
peony-flowered
people at large
people in general
people of fashion
people’s democracy
people’s front
people’s republic
people’s war
people-blinding
people-born
people-devouring
people-king
people-loving
people-pestered
people-pleasing
pep pill
pep rally
pep talk
pep up
pepped up
pepper bush
pepper caster
pepper game
pepper mill
pepper oil
pepper plant
pepper pod
pepper pot
pepper red
pepper sauce
pepper spot
pepper tree
pepper turnip
pepper vine
pepper wheat
pepper-and-salt
pepper-and-salt rope
pepper-box
pepper-castor
pepper-pot
pepper-tree
peppercorn rent
peppered moth
peppermint camphor
peppermint geranium
peppermint gum
peppermint oil
peppermint stringbark
peppermint tree
peptic digestion
peptic ulcer
peptide bond
per an
per annum
per ascensum
per bend
per capita
per caput
per cent
per centum
per chevron
per compound
per contra
per descensum
per diem
per head
per mensem
per mil
per mill
per pais
per pale
per pro
per procuration
per procurationem
per saltire
per saltum
per se
per second per second
per simpliciter
per stirpes
per-
perboric acid
perceived noise decibel
percentage composition
percentage error
percentage tare
perception deafness
perceptual defence
perch pole
perching bird
perchlor-
perchloric acid
perchromic acid
percolate in
percolate into
percussion bullet
percussion cap
percussion drilling
percussion figure
percussion fire
percussion fuse
percussion hammer
percussion instrument
percussion lock
percussion section
percussion stop
percussion table
percussion-proof
percussive welding
peregrine falcon
pereira bark
peremptory challenge
peremptory plea
peremptory refusal
perennial pea
perennial phlox
perennial ryegrass
perennial treatment
perennial-rooted
perfect binding
perfect body
perfect cadence
perfect competition
perfect contrition
perfect flower
perfect fool
perfect game
perfect gas
perfect gentleman
perfect lady
perfect likeness
perfect number
perfect participle
perfect pitch
perfect radiator
perfect ream
perfect rhyme
perfect square
perfect tense
perfect type
perfect usufruct
perfect year
perfecting press
perfecting touch
perfective aspect
perfectly sure
perfector press
perfide Albion
perforated tape
perforated tracery
perforation gauge
perform a
perform a part
perform a part in
perform a rite
perform a role
perform action
perform aerobatics
perform as
perform divine service
perform music
perform on
perform rites
perform service
perform the act of love
perform the duties of
perform the functions of
perform the marriage act
perform the office of
perform your duty
performance test
performing area
performing arts
pergelisol table
peri-
peri-insular
periarteritis nodosa
pericline twinning
peridental membrane
peridot of Ceylon
perigean tide
perigean tides
peril point
peril-laden
perilla oil
perineo-
period of duty
period of existence
period of revolution
period of rotation
period piece
period style
periodic acid
periodic function
periodic law
periodic motion
periodic sentence
periodic system
periodic table
periodic wave
periodical cicada
periodical index
periodicity factor
periodontal membrane
periodontal tissue
periost-
periosteo-edema
peripatetic exercise
peripatetic journey
peripheral device
peripheral field
peripheral nervous system
peripheral neuritis
peripheral speed
peripheral vision
periscopic lens
perish the thought
perish with cold
perishing with hunger
periton-
periwig chair
periwinkle blue
perjure yourself
persistence of vision
persistent cruelty
persistent lactation
person in charge
person of consequence
person of fashion
person of importance
person of note
person of renown
person to be reckoned with
person-to-person
person-to-person call
persona grata
persona non grata
personae gratae
personae non gratae
personal adviser
personal aims
personal ambition
personal appearance
personal choice
personal column
personal conflict
personal correspondence
personal desires
personal effects
personal eq his essays
personal equation
personal file
personal idealism
personal identity
personal initiative
personal judgment
personal letter
personal liberty
personal matter
personal name
personal pronoun
personal property
personal property tax
personal remark
personal responsibility
personal shopper
personal sonar
personal staff
personal style
personal usage
personality bob
peter's pence
peter-boat
peter-penny
petit bleu
petit bourgeois
petit dejeuner
petit feu
petit four
petit juror
petit jury
petit larceny
petit mal
petit point
petit serjeanty
petit souper
petit treason
petit-bourgeois
petit-juror
petit-juryman
petit-maitre
petit-maire
petit-maitre
petit-mare
petit-negre
petit-noir
petite bourgeoisie
petite marmite
petite noblesse
petite perception
petites perceptions
petitio principii
petition nomination
petition-proof
petits bourgeois
petits fours
petr-
petrarchan sonnet
petri dish
petrified forest
petrified wood
petro-
petro-occipital
petrol engine
petrol station
petroleum asphalt
petroleum benzine
petroleum coke
petroleum engine
petroleum engineer
petroleum engineering
petroleum ether
petroleum grease
petroleum jelly
petroleum naphtha
petroleum spirit
petticoat breeches
petticoat government
petticoat insulator
petticoat narcissus
petticoat pipe
petty bourgeois
petty bourgeoisie
petty canon
petty captain
petty cash
petty cashbook
petty criticism
petty gambler
petty grafter
petty juror
petty jury
petty king
petty larceny
petty mind
petty officer
petty officer first class
petty officer second class
petty officer third class
petty politician
petty politics
petty sessions
petty theft
petty thief
petty treason
petty tyrant
petty-bag
petty-minded
petty-mindedly
petty-mindedness
petulant person
petunia violet
peu de chose
pew chair
pew hinge
pew opener
pew rent
pew rental
pew renter
pewter mill
phaeton butterfly
phago-
phagocytic immunity
phako-
phallic stage
phallic symbol
phallic worship
phallic worshiper
phanero-
phantom acceleration
phantom circuit
phantom larva
phantom limb
phantom minnow
phantom of the mind
phantom orchid
phantom picture
phantom red
phantom tumor
phantom wire
phantom-fair
phantom-white
pharaoh ant
pharmaceutical chemist
pharmaco-
pharmaco-oryctology
pharyng-
pharyngeal cavity
pharyngeal tonsil
pharyngo-
pharyngo-oesophageal
pharyngo-oral
phase adjustment
phase advancer
phase angle
phase contrast microscope
phase control
phase converter
phase difference
phase discriminator
phase in
phase inverter
phase microscope
phase modulation
phase out
phase rule
phase space
phase splitter
phase splitting
phase transformer
phase velocity
phase-contrast
phase-discriminating amplifier
phase-rotation relay
phase-shift microphone
phase-wound
phase-wound rotor motor
phases of the moon
phatic communion
pheasant cuckoo
pheasant duck
pheasant under glass
pheasant's eye
pheasant's-eye
pheasant's-eyes
pheasant-eyed
pheasant-plumaged
pheasant-shell
pheasant-tailed
phello-
phen-
phenacyl chloride
phenarsazine chloride
phenethyl alcohol
pheno-
phenobarbital sodium
phenol alcohol
phenol aldehyde
phenol coefficient
phenol red
phenol-phthalein
phenolic resin
phenolic urea
phenomenological psychology
phenomenological theology
phenyl acetate
phenyl alcohol
phenyl cyanide
phenyl ether
phenyl ethyl ether
phenyl group
phenyl iodide
phenyl isocyanate
phenyl mercaptan
phenyl methyl ketone
phenyl salicylate
phenyl valerate
phenylaminoproprionic acid
phenylene blue
phenylene group
phenylethyl alcohol
phenylethylbarbituric acid
phenylformic acid
phenylic acid
phenylmethylcarbinyl acetate
phenylpropyl acetate
phenylpyruvic oligophrenia
phi-meson
phi-phenomena
phi-phenomenon
phil-
philenor butterfly
philharmonic pitch
philo-
philosopher king
philosopher's stone
philosopher's wool
philosophers' stone
philosophic composure
philosophic doctrine
philosophic system
philosophic theory
philosophical anthropology
philosophical existentialism
philosophical existentialism
philosophical existentialist
philosophical idealism
philosophical induction
philosophical inquiry
philosophical investigation
philosophical optimism
philosophical optimist
philosophical pitch
philosophical proposition
philosophical speculation
philosophical theology
philosophical unitarianism
philosophicco-
philosophy learned from examples
philosophy of being
philosophy of organism
philosophy of signs
philosophy of the Academy
philosophy of the Garden
philosophy of the Lyceum
philosophy of the Porch
philosophy of the Stoa

phleb-
phlebo-
phloem fiber
phloem necrosis
phloem parenchyma
phloem ray

phloro-
phobic reaction
phoebe bird
phoenix fowl
phon-
phone book
phone call
phone number
phone-in

phonemic alphabet
phonetic alphabet
phonetic character
phonetic law
phonetic spelling
phonetic symbol

phonograph record
phony disease
phony dividend
phony money
phony peach
phony war
phoo-phoo
phos-
phosph-
phosphate rock
phosphine oxide
phospho-
phosphonium iodide
phosphor bronze
phosphor copper
phosphoric acid
phosphoric anhydride
phosphoro-
phosphorous acid
phosphorous anhy-drade
phosphorus chloride
phosphorus disease
phosphorus necrosis
phosphorus oxide
phosphorus oxychloride
phosphorus pentachloride
phosphorus pentoxide
phosphorus sesquisulfide
phosphorus sulphide
phosphorus trichloride
phosphoryl chloride
phosphoryl group
phosphoryl radical
phossy jaw
phot-
phote finish
photo base
photo finish
photo layout
photo relief
photo spread
photo-
photo-electric
photo-engraving
photo-finish
photo-galvanography
photo-mount
photo-offset
photo-reconnaissance
photo-reconnaissance plane
photo-retouch
photo-set
photo-setting
photochemical process
photoconductor cell
photoelectric cathode
photoelectric cell
photoelectric cell meter
photoelectric cells
photoelectric colorimeter
photoelectric counter
photoelectric current
photoelectric detector
photoelectric device
photoelectric effect
photoelectric emission
photoelectric image converter
photoelectric inspection machine
physiographic geology
physiologic epilepsy
physiological atmosphere
physiological botany
physiological chemistry
physiological individual
physiological phonetics
physiological psychology
physiological saline
physiological salt soluti
physiological salt solution
physiologically addictive
physo-
phyt-
phytic acid
phyto-
phytogenic infection
pi a form
pi meson
pi-jaw
pi-meson
pia mater
pia-arachnitis
pia-arachnoid
pia-matral
piacular offering
piano accordion
piano action
piano deal
piano duet
piano keys
piano lamp
piano nobile
piano organ
piano player
piano player roll
piano quartet
piano quintet
piano roll
piano score
piano stool
piano subito
piano trio
piano wire
piano-organ
piano-player roll
piano-violin
pica em
picaresque novel
picayune critic
piccolopasso red
pick a bone with
pick a hole
pick a quarrel
pick and choose
pick apart
pick at
pick clean
pick clock
pick dressing
pick eye
pick glass
pick hammer
pick holes
pick nits
pick off
pick on
pick out
pick over
pick rake
pick the bones of
pick the brains of
pick the lock
pick to pieces
pick tongs
pick up
pick up an acquaintance with
pick up information
pick up speed
pick up the cheek
pick up the mooring
pick up the tab
pick your brains
pick your pockets
pick your steps
pick your way
pick-
pick-a-back
pick-bearing
pick-me-up
pick-nosed
pick-off
pick-up
pick-up arm
pick-up sticks
pick-up-sticks
picture-seeking
picture-taking
picture-writing
pictures, the
piddling few
piddling number
pidgin English
pie baker
pie board
pie chart
pie dish
pie eater
pie filler
pie filling
pie in the sky
pie knife
pie maker
pie making
pie meat
pie piece
pie plate
pie rack
pie tin
pie vendor
pie wagon
pie wool
pie-baking
pie-eater
pie-eyed
pie-faced
pie-gow
pie-stuffed
piebald skin
piece accent
piece bien faite
piece brace
piece broker
piece by piece
piece de resistance
piece goods
piece justificative
piece mold
piece of advice
piece of ass
piece of cake
piece of eight
piece of evidence
piece of exchange
piece of gold
piece of good luck
piece of gossip
piece of guesswork
piece of land
piece of meat
piece of money
piece of news
piece of sharp practice
piece of silver
piece of virtu
piece of work
piece of writing
piece of your mind
piece out
piece price
piece price system
piece rate
piece together
piece wage
piece-dye
piece-dyed
piecing together
pie crust table
pied blackbird
pied goose
pied noir
pied wagtail
pied-
pied-a-terre
pied-billed
pied-billed grebe
pied-coated
pied-colored
pied-de-biche
pied-faced
pied-piping
pied-winged
piedmont glacier
pieds de cochon
pien check
pier arch
pier buttress
pier dam
pier glass
pier table
pier-head
pierce the ears
pierce the heart
pierce to the depths
pierced dollar
piercing eye
piercing look
piercing pain
piercing wind
pierian spring
pierre-perdu
pierrot show
piezo oscillator
piezo resonator
piezo-
piezoelectric crystal
piezoelectric effect
piezoelectric microphone
piff-paff
pig Latin
pig bed
pig boiling
pig breaker
pig cart
pig dealer
pig deer
pig hutch
pig in a poke
pig in clover
pig iron
pig lead
pig man
pig metal
pig tub
pig typhoid
pig wife
pig yoke
pig's ear
pig's wash
pig-back
pig-backed
pig-bed
pig-bellied
pig-breeding
pig-bribed
pig-chested
pig-dealing
pig-driving
pig-eating
pig-eyed
pig-faced
pig-farming
pig-fat
pig-footed
pig-haired
pig-haunted
pig-headed
pig-iron
pig-jaw
pig-jawed
pig-jump
pig-jumper
pig-keeping
pig-metal
pig-nut
pig-proof
pig-tailed
pig-tight
pigeon English
pigeon blood
pigeon breast
pigeon clock
pigeon flyer
pigeon grape
pigeon grass
pigeon hawk
pigeon hole
pigeon house
pigeon loft
pigeon pea
pigeon post
pigeon pox
pigeon timer
pigeon's milk
pigeon's-neck
pigeon-berry
pigeon-breast
pigeon-breasted
pigeon-breastedness
pigeon-hawk
pigeon-hearted
pigeon-hole
pigeon-house
pigeon-livered
pigeon-pea
pigeon-plum
pigeon-tailed
pigeon-toe
pigeon-toed
pigeon-wood
piggy bank
piggy-wiggy
piggyback car
piggyback control
piggyback rocket
pigment cell
pignus judiciale
pignus legale
pigs in blankets
pigs' feet
pigs' knuckles
pigsty bulwark
pigtail hook
pikaba hemp
pike hammer
pike perch
pike pole
pike sauce
pike squirrel
pike whale
pike-eyed
pike-gray
pike-snouted
piked dogfish
pil-
pilaster mass
pilaster strip
pile Pelion on Ossa
pile bent
pile bridge
pile builder
pile building
pile cap
pile drawer
pile drive
pile driver
pile dweller
pile dwelling
pile fender
pile hammer
pile house
pile in
pile it on
pile on
pile out
pile shoe
pile up
pile weave
pile weaving
pile wire
pile-built
pile-driven
pile-driver
pile-driving
pile-woven
pileated woodpecker
pilferage hazard
pilgrim bottle
pilgrim brown
pilgrim ring
pilgrim scallop
pilgrim's bottle
pilgrim's staff
pilgrimage psalm
pili nut
piling strip
pill bug
pill pipe
pill slab
pill tile
pill wood louse
pill, the
pill-boasting
pill-box
pill-dispensing
pill-gilding
pill-rolling
pill-shaped
pill-taking
pillar block
pillar bolt
pillar box
pillar crane
pillar cult
pillar dollar
pillar file
pillar lip
pillar mount
pillar of society
pillar of the church
pillar plate
pillar post
pillar saint
pillar stone
pillar-and-breast
pillar-box
pillar-shaped
pillow block
pillow fight
pillow lace
pillow lava
pillow sham
pillow slip
pillow sword
pillow word
pillow-case
pillow-shaped
pilo-
pilose bent grass
pilot balloon
pilot bird
pilot biscuit
pilot boat
pilot bread
pilot burner
pilot cell
pilot chart
pilot chute
pilot cloth
pilot driver
pilot engine
pilot film
pilot fish
pilot flag
pilot flame
pilot house
pilot jack
pilot jacket
pilot ladder
pilot lamp
pilot light
pilot method
pilot model
pilot motor
pilot nut
pilot officer
pilot pin
pilot plan
pilot plane
pilot plant
pilot plow
pilot program
pin pallet escapement
pin point
pin pool
pin prod
pin rack
pin rail
pin rod
pin seal
pin setter
pin something on someone
pin stripe
pin the tail on the donkey
pin tooth
pin tuck
pin tumbler
pin up
pin valve
pin vise
pin wheel
pin wire
pin wrench
pin your ears back
pin your faith to
pin your hope upon
pin yourself upon
pin-brained
pin-buttocked
pin-curl
pin-eyed
pin-feather
pin-fire
pin-head
pin-hole
pin-lever escapement
pin-money
pin-pallet escapement
pin-prick
pin-spotted
pin-striped
pin-tailed
pin-tailed sand grouse
pin-toed
pin-up
pin-wheel
pin-wing
pina cloth
pinacone-pinacolin
pine mouse
pine needle
pine nut
pine oil
pine resins
pine sawfly
pine sawyer
pine siskin
pine snake
pine tag
pine tar
pine tree
pine warbler
pine wool
pine worm
pine-apple
pine-barren
pine-bearing
pine-bordered
pine-built
pine-capped
pine-clad
pine-cone fish
pine-covered
pine-crested
pine-crowned
pine-dotted
pine-encircled
pine-fringed
pine-leaf scale
pine-needle oil
pine-sequestered
pine-shaded
pine-shipping
pine-tar oil
pine-tip moth
pine-tree
pine-tree flag
pine-wood
pineal apparatus
pineal body
pineal eye
pineal gland
pineapple cactus
pineapple disease
pineapple fiber
pineapple fungus
pineapple juice
pineapple oil
pineapple weed
piney dammar
piney tallow
piney woods
pinfall Wrestling
ping pong
ping-pong
pinhole camera
pinhole decay
pinhole pupil
pinion focusing microscope
pink bollworm
pink calla lily
pink champagne
pink coat
pink colors and pigments
pink corydalis
pink disease
pink elephant
pink elephants
pink eye
pink gin
pink grass
pink in
pink lady
pink locust
pink of perfection
pink poplar
pink rhododendron
pink salmon
pink salt
pink slip
pink spiders
pink spray
pink squirrel
pink stern
pink tea
pink vine
pink wine
pink-blossomed
pink-bound
pink-breasted
pink-checked
pink-cheeked
pink-coated
pink-colored
pink-eared
pink-eye
pink-eyed
pink-faced
pink-fleshed
pink-flowered
pink-foot
pink-footed
pink-hi
pink-leaved
pink-lipped
pink-ribbed
pink-shaded
pink-shelled
pink-skinned
pink-sterned
pink-striped
pink-tinted
pink-veined
pink-violet
pink-white
pinking iron
pinking shears
pinkster flower
pinnate-leaved
pinnate-ribbed
pinnate-veined
pinnati-
pinnatifid-lobed
pinned down
pinni-
pinning down
pinochle rummy
pinon grass
pinon pine
pinpoint bombing
pinpoint precision
pins and needles
pint pot
pint-pot
pint-size
pint-sized
pintado petrel
pintle boss
pintle chain
pintle hook
pinto bean
pintsch gas
pinup girl
pipe up a song
pipe vine
pipe welder
pipe wrench
pipe your eye
pipe-bending
pipe-boring
pipe-caulking
pipe-clay
pipe-clayey
pipe-clayish
pipe-cleaning
pipe-cutting
pipe-drawn
pipe-dream
pipe-dreaming
pipe-drilling
pipe-fish
pipe-joint cement
pipe-layer
pipe-line
pipe-necked
pipe-playing
pipe-puffed
pipe-roll
pipe-shaped
pipe-smoker
pipe-stone
pipe-tapping
pipe-thawing
pipe-threading
piperonyl alcohol
piperonyl aldehyde
piperonyl butoxide
pipes of Pan
piping cord
piping hot
piping time of peace
piping times
pippin file
pippin-faced
pippin-hearted
piptostegia root
pique your interest
pique yourself
pirate bird
pirate perch
pirate stream
pis aller
pisang wax
pisci-
pish-pash
pismo clam
piss about
piss and vinegar
piss artist
piss away
piss off
piss pot
piss you off
pissed off
pissed-off
pissy-eyed
pistachia galls
pistachio green
pistachio nut
pistacia gall
pistol carbine
pistol fire
pistol grip
pistol plant
pistol shot
pistol-handle knife
pistol-shaped
pistol-whip
pistol-whipping
piston displacement
piston drill
piston engine
piston motion
piston pin
piston plane
piston power
piston pump
piston ring
piston rod
piston spring
piston valve
piston-valve engine
pit against
pit against one another
pit bank
pit boss
pit brink
pit coal
pit craneman
pit dwelling
pit grave
pit hand
pit head
pit house
pit man
pit of Acheron
pit of your stomach
pit prop
pit sample
pit saw
pit sawing
pit Sawyer
pit tomb
pit viper
pit-a-pat
pit-black
pit-blackness
pit-coal
pit-eyed
pit-head frame
pit-headed
pit-hole
pit-marked
pit-pat
pit-patter
pit-rotted
pit-specked
pit-working
pita fiber
pita fibre
pita flax
pita floja
pitch accent
pitch and plunge
pitch and toss
pitch apple
pitch black
pitch board
pitch box
pitch camp
pitch chain
pitch chisel
pitch circle
pitch coal
pitch cone
pitch cylinder
pitch discharger
pitch factor
pitch in
pitch indicator
pitch into
pitch kettle
pitch line
pitch on
pitch opal
pitch pine
pitch pipe
pitch point
pitch pot
pitch ratio
pitch shot
pitch speed
pitch surface
pitch upon
pitch your tent
pitch-and-putt
pitch-and-run
pitch-and-run shot
pitch-and-toss
pitch-black
pitch-blackened
pitch-blackness
pitch-blende
pitch-brand
pitch-brown
pitch-colored
pitch-dark
pitch-darkness
pitch-diameter
pitch-faced
pitch-farthing
pitch-lined
pitch-marked
pitch-ore
pitch-pine
pitch-pipe
pitch-stained
pitched battle
pitched roof
pitcher house
pitcher mold
pitcher molding
pitcher plant
pitcher-plant
pitcher-shaped
pitchfork grass
pitching indicator
pitching niblick
pitching piece
pitching tool
pitchy darkness
pith ball
pith hat
pith helmet
pith knot
pithy saying
pitot tube
pitot-static tube
pits, the
pitter-patter
pituitary body
pituitary extract
pituitary gland
pity-bound
pity-moving
pity-worthy
pivotal point
pivot about
pivot bearing
pivot blow
pivot bridge
pivot joint
pivot man
pivot on
pivot pier
pivot span
pivot stand
pivot tooth
pix-jury
pixy ring
pixy stool
pixy-led
pizza pie
place a value on
place after
place against
place an order
place at your disposal
place before
place bill
place brick
place card
place confidence in
place emphasis on
place hitter
place holder
place hunter
place in
place in difficulty
place in office
place in the foreground
place in the sun
place in your way
place isomerism
place itself
place kick
place kicker
place mat
place name
place of arms
place of articulation
place of assignation
place of confinement
place of habitation or resort
place of torment
place of trade
place of vice
place of worship
place open
place out at interest
place parallel to
place reliance in
place reliance on
place seeker
place setting
place side by side
place the blame for
place the blame on
place the responsibility for
place to live
place to your account
place to your credit
place trust in
place under arrest
place under oath
place upon
place upon record
place where you hang your hat
place your feet carefully
place yourself
place-begging
place-brick
place-grabbing
place-holder
place-holding
place-hunter
place-hunting
place-kick
place-kicker
place-loving
place-money
place-name
place-names
place-naming
place-proud
place-seeking
placebo effect
placement examination
placement kick
placement test
placer claim
placer deposit
placer gravel
placer miner
placer mining
placery boom
placid-featured
placid-mannered
placing-out
placita coronae
placket hole
placo-
plagal cadence
plagal mode
plagio-
plagioclase-basalt
plagioclase-granite
plagioclase-porphyrite
plagioclase-porphyry
plagioclase-rhyolite
plague grasshopper
plague mark
plague one
plague spot
plague-beleagured
plague-free
plague-haunted
plague-infected
plague-infested
plague-ridden
plague-smitten
plague-spot
plague-spotted
plague-stricken
plain English
plain Jane
plain aerial
plain as a pikestaff
plain as day
plain as the nose on your face
plain bearing
plain chant
plain chocolate
plain clothes
plain dealer
plain dealing
plain folks
plain knit
plain lap
plain living
plain people
plain rail
plain sail
plain sailing
plain sense
plain sewing
plain song
plain speaking
plain speech
plain style
plain stylist
plain suit
plain text
plain to be seen
plain tripe
plain wanderer
plain weave
plain words
plain-bodied
plain-bred
plain-clothed
plain-clothes man
plain-darn
plain-dressing
plain-edged
plain-faced
plain-featured
planer saw
planer tree
planet differential
planet gear
planet wheel
planet-stricken
planet-struck
planetary colony
planetary electrons
planetary house
planetary mansion
planetary nebula
planetary precession
planetary shell
planetesimal hypothesis
plani-
planing hull
planing machine
planing mill
plank buttress
plank down
plank plating
plank road
plank scraper
plank-shear
plank-sheer
planked steak
plankton net
planktonic algae
planned economy
planned parenthood
planning blight
planning board
planning function
planning hull
plano-
plano-concave
plano-convex
planographic printing
planomilling machine
plant a mine
plant anatomy
plant and animal life
plant beard
plant breeder
plant bug
plant cane
plant cell
plant cutter
plant disease
plant factor
plant families
plant feeder
plant fibrin
plant food
plant formation
plant gapsesed
plant geographer
plant geography
plant hair
plant hemp
plant hormone
plant house
plant insulin
plant kingdom
plant life
plant louse
plant part
plant pathology
plant physiology
plant root
plant seed
plant stem
plant thermal efficiency
plant worship
plant worshiper
plant yourself
plant-animal
plant-cutter
plant-eater
plant-eating
plantain lily
plantain squirrel
plantain tree
plantain-eater
plantain-leaved
plantar ligament
plantar nerves
plantar reflex
plantar veins
plantation acre
plantation rubber
planter's punch
planting stick
plantlike flagellate
plash wheel
plate bender
plate bone
plate calender
plate circuit
plate clutch
plate column
plate conductance
plate coupling
plate culture
plate current
plate cutter
plate cylinder
plate driller
plate engraving
plate fulcrum scale
plate gear
plate girder
plate glass
plate glazing
plate heater
plate horse
plate jig
plate keel
plate machine
plate maker
plate mark
plate modulation
plate money
plate oven
plate pail
plate paper
plate piece
plate press
plate printer
plate proof
plate race
plate rail
plate resistance
plate shop
plate tectonics
plate tower
plate tracery
plate-bending
plate-carrier
plate-collecting
plate-cutting
plate-dog
plate-drilling
play cat and mouse with
play construction
play debt
play dirty pool
play doctor
play down
play drum
play ducks and drakes with
play dumb
play d
play fair
play fast and loose
play fast and loose with
play favorites
play first fiddle
play fixer
play footsie with
play for
play for a sucker
play for time
play games
play group
play havoc with
play hell
play hell with
play hide and seek
play hob
play hob with
play hooky
play into the hands of
play it by ear
play it just right
play it like a master
play jazz
play merry hell with
play mischief with
play music
play of color
play of colors
play of fancy
play of light
play of wit
play off
play on
play on the feelings
play on words
play one false
play opposite
play out
play peekaboo
play pipe
play politics
play possum
play pranks
play right
play safe
play script
play second fiddle
play someone false
play the badger game
play the buffoon
play the deuce
play the deuce with
play the devil
play the devil with
play the drums
play the field
play the fool
play the game
play the hell with
play the hypocrite
play the lead
play the market
play the merry hell with
play the mischief with
play the part of
play the ponies
play the pontiff
play the same broken record
play the same old record
play the same old song
play the same old tune
play the spy
play the violin
play therapy
play to the galleries
play to the gallery
play tricks
play truant
play up
play up to
play upon
play violin
play with
play with fire
play with marked cards
play with yourself
play you off against another
play your cards
play your cards well
play your part
play your proper role
play-act
play-bill
play-book
play-by-play
play-day
play-down
play-judging
play-loving
play-off
play-pretty
play-producing
play-reading
playback machine
played out
player piano
playful as a kitten
playground ball
playing God
playing area
playing around
playing by ear
playing card
playing cards
playing engagement
playing field
playing lightly over
playing possum
playing suit
playing trick
playing with fire
playing with yourself
plaza de toros
plea bargaining
plead for
plead guilty
plead ignorance
plead with
plead your case
plead your cause
pleasant company
pleasant journey
pleasant reception
pleasant stimulation
pleasant time
pleasant-eyed
pleasant-faced
pleasant-featured
pleasant-looking
pleasant-mannered
pleasant-minded
pleasant-natured
pleasant-sounding
pleasant-spirited
pleasant-spoken
pleasant-tasted
pleasant-tasting
pleasant-tongued
pleasant-voiced
pleasant-witted
please reply
please the crowd
please the nostrils
please yourself
pleased as Punch
pleased with
pleased with a rattle
pleased with yourself
pleasing style
pleasing to the eye
pleasure dome
pleasure dome of Kubla Khan
pleasure garden
pleasure giver
pleasure ground
pleasure lover
pleasure principle
pleasure seeker
pleasure taker
pleasure trip
pleasure-bent
pleasure-bound
pleasure-giving
pleasure-greedy
pleasure-loving
pleasure-pain
pleasure-seeker
pleasure-seeking
pleasure-shunning
pleasure-tempted
pleasure-tired
pleasure-wasted
pleasure-weary
pleasures of the mind
pledge keeper
pledge of secrecy
pledge taker
pledge the health of
pledge your honor
pledge your word
pledge-bound
pledge-free
plein air
plein jeu
plein-air
plein-air school
plein-airist
pleio-
plenary council
plenary indulgence
plenary inspiration
plenipotentiary power
pleno jure
plenty as blackberries
plenty good enough
plenty of notice
plenty to do
plenum system
pleo-
pleroma violet
plesio-
pleur-
pleurisy root
pleuro-
pleuro-peritoneum
pleuro-pneumonia
pleuropneumonia-like organism
pliant-bodied
pliant-necked
plica polonica
plicato-
plight your faith
plight your honor
plight your troth
plighted bride
plighted faith
plighted love
plighted troth
plimsoll mark
plinth block
plinth course
plio-
plisse crepe
plod along
plop down
plot a course
plot line
plot lines
plot of ground
plot of land
plot out
plot survey
plotting increment
plotting value
plotting board
plotting paper
plough back
plough-boy
plough-head
plough-land
plough-monday
plough-staff
plough-tail
ploughman's spikenard
plover egg
plover page
plover quail
plover-billed
plover-page
plow alms
plow anchor
plow back
plow back into
plow drill
plow hand
plow horse
plow iron
plow out
plow paddle
plow press
plow sole
plow steel
plow team
plow the deep
plow tree
plow truck
plow under
plow up
plow-bred
plow-cloven
plow-shaped
plow-torn
plowshare bone
pluck a crow with
pluck by the beard
pluck out
pluck the beard
pluck up
pluck up by the roots
pluck up heart
pluck up your spirits
pluck with someone
pluck-buffet
plug along
plug and feathers
plug at
plug away
plug bib
plug cap
plug casing
plug cock
plug drill
plug frame
plug hat
plug in
plug rod
plug switch
plug the same theme
plug tobacco
plug up
plug-hatted
plug-ugly
plugged up
plum bladder
plum blotch
plum brandy
plum broth
plum curculio
plum duff
plum fir
plum gouger
plum granite
plum grape
plum pocket
plum pudding
plum purple
plum scab
plum thrips
plum tree
plum violet
plum weevil
plum wine
plum yew
plum-blue
plum-brown
plum-cake
plum-colored
plum-duff
plum-green
plum-pie
plum-porridge
plum-purple
plum-shaped
plum-sized
plum-tinted
plum-tree
plumb bob
plumb bond
plumb joint
plumb level
plumb line
plumb rule
plumb the depths
plumb-
plumb-bob
plumb-line
plumb-rule
plumbago blue
plumbago gray
plumbago slate
plumber block
plumber's snake
plumber-block
plumbo-
plumbous oxide
plume feather
plume grass
plume moss
plume moth
plume nutmeg
plume of smoke
plume polypody
plume poppy
plunk down the money
plunk for
plural number
plural system
plural vote
plural voting
pluralistic idealism
pluri-
plus c'est la meme chose
plus ca change
plus fours
plus head
plus lens
plus ou moins
plus sight
plus sign
plus thread
plus-foured
plus-fours
plush copper
plush stitch
plutonic rock
plutonium bomb
plutonium reactor
ply metal
ply rolling
ply the oar
ply upon
ply yarn
ply your trade
plymouth brethren
plymouth cloak
plymouth rock
plywood saw
pn-
pneo-
pneum-
pneumat-
pneumatic clock
pneumatic hammer
pneumatic servo
pneumatic tire
pneumatic trough
pneumatic tyre
pneumatic-tired
pneumatico-
pneumatico-hydraulic
pneumato-
pocket watch
pocket-book
pocket-eyed
pocket-handkerchief
pocket-knife
pocket-money
pocket-size
pocket-sized
poco a poco
poco-curante
pod auger
pod borer
pod corn
pod fern
pod gimlet
pod rot
pod shrimp
pod-shaped
poddy-dodger
podo-
podophyllin resin
poe-bird
poecilo-
poet laureate
poet's narcissus
poet-artist
poet-dramatist
poet-farmer
poet-historian
poet-humorist
poet-in-residence
poet-king
poet-laureateship
poet-musician
poet-novelist
poet-painter
poet-patriot
poet-pilgrim
poet-playwright
poet-plowman
poet-preacher
poet-priest
poet-princess
poet-saint
poet-satirist
poet-seer
poet-thinker
poet-warrior
poetic division
poetic genius
poetic image
poetic imagery
poetic imagination
poetic inspiration
poetic justice
poetic kineticist
poetic kinetics
poetic language
poetic licence
poetic license
poetic prose
poetic realism
poetic realist
poetic source
poetic tachism
poetic tachist
poetic works
poetico-
poetico-antiquarian
poetico-architectural
poetico-grotesque
poetico-mystical
poetico-mythological
poetico-philosophic
poetry Muses
poetry image
poetry-proof
poets laureate
pogo stick
pogo-stick
poikilo-
point a moral
point alphabet
point at
point at issue
point bar
point blanket
point boat
point champain
point charge
point chisel
point co-ordinate
point count
point d'Angleterre
point d'appui
point d'esprit
point to
point to be solved
point transformation
point up
point-bearing pile
point-blank
point-blank refusal
point-by-point comparison
point-contact transistor
point-device
point-duty
point-event
point-junction transistor
point-lace
point-laced
point-on
point-particle
point-ring sight
point-set
point-set topology
point-to-point
point-to-point navigation
point-to-point race
pointed arch
pointed fox
pointed projection
pointing bone
pointing chisel
pointing doors
pointing mark
pointing out
pointing to
pointing tool
pointing trowel
points d'appui
points of the compass
poised against one another
poison bean
poison bush
poison dogwood
poison elder
poison gas
poison haw
poison hemlock
poison injector
poison ivy
poison mask
poison oak
poison parsley
poison pen
poison rye grass
poison sumac
poison sumach
poison tobacco
poison-laden
poison-pen
poison-pen letter
poison-pen writer
poison-sprinkled
poison-tainted
poison-tipped
poison-toothed
poisonous plant
poisonous plants
poitrine d'agneau
poitrine de veau
poke along
poke around
poke at
poke bonnet
poke brim
poke check
poke full of holes
poke fun at
poke in
poke into
poke out
poke the fire
poke your nose in
poke your nose into something
poke-bonnet
poke-bonneted
poke-brimmed
poke-cheeked
poke-easy
poke-pudding
poker dice
poker face
poker machine
poker work
poker-faced
poker-work
poky bonnet
polacca rig
polacca-rigged
poland china
pole vault
pole vaulter
pole vaulting
pole-armed
pole-axe
pole-dried
pole-jump
pole-masted
pole-shaped
pole-stack
pole-trap
pole-vault
pole-vaulter
poles apart
poles asunder
polewood stage
poli-sci
police action
police alarm
police badge
police band
police baton
police blotter
police boat
police captain
police car
police chief
police club
police commissioner
police constable
police court
police detective
police dog
police force
police headquarters
police inquiry
police inspector
police interrogation
police investigation
police judge
police jury
police justice
police lantern
police lieutenant
police magistrate
police matron
police office
police officer
políctico-ecclesiastical
políctico-economical
políctico-ethical
políctico-geographical
políctico-judicial
políctico-military
políctico-moral
políctico-orthodox
políctico-peripatetic
políctico-religious
políctico-sacerdotal
políctico-scientific
políctico-social
políctico-theological
polítics with bloodshed
polka dot
polka mazurka
polka-dot
polka-dotted
poll booth
cal degree
poll end
poll evil
poll parrot
poll pick
poll tax
poll watcher
poll-deed
poll-parrot
coroll-parroty
pollen analysis
pollen basket
pollen brush
pollen catarrh
pollen chamber
pollen count
pollen mass
pollen plate
pollen sac
pollen tube
pollen-covered
pollen-dusted
pollen-sprinkled
pollice verso
pollin-
polling booth
polling place
polling station
polyvinylidene resin
pom girl
pom-pom
pom-pom girl
pom-pom-pullaway
pomace fly
pome-citron
pome-like
pomegranate purple
pomfret-cake
pomme blanche
pomme de terre
pomme-lion
pommel bag
pommes blanches
pomp and circumstance
pompadour green
pompano shell
pompous person
pompous prolixity
pompous word
ponceau red
pond apple
pond crow
pond cypress
pond duck
pond lily
pond pine
pond scum
pond smelt
pond-apple
pond-scum parasite
pond-skater
ponder over
ponderosa pine
pondosa pine
pondus medicinale
pone bread
pons Varolii
pons asinorum
pont l'eveque
pont-levis
pontes Varolii
pontiff purple
pontoon bridge
pontoon dock
pontoon hull
pontoon lifeboat
poor farm
poor fist
poor gas
poor guardianship
poor health
poor husbandry
poor imitation
poor in spirit
poor john
poor judgment
poor law
poor lookout
poor man
poor man's gout
poor oat
poor opinion
poor outlook
poor person
poor possibility
poor prognosis
poor prospect
poor relation
poor relief
poor reputation
poor stewardship
poor taste
poor timing
poor tool
poor unfortunate
poor white
poor white trash
poor, the
poor-blooded
poor-box
poor-charactered
poor-clad
poor-debtor law
poor-do
poor-feeding
poor-folksy
poor-law
poor-minded
poor-rate
poor-sighted
poor-spirited
poor-spiritedly
poor-spiritedness
poor-will
poorly argued
poorly off
pop art
pop artist
pop ash
pop at
pop concert
pop culture
pop fly
pop foul
pop hero
pop in
pop into your head
pop literature
pop music
pop off
pop out
pop safety valve
pop the question
pop up
pop upon
pop valve
pop wine
pop your cherry
pop-
pop-corn
pop-gun
pop-off
pop-shop
pop-up
popcorn balls
popcorn flower
pope joan
pope's eye
pope's head
pope's nose
pope-holy
popeye catalufa
popinjay green
poplar birch
poplar borer
poplar box
poplar hawk
poplar worm
poplar-covered
poplar-crowned
poplar-flanked
poplar-leaved
portable radio
portable saw
portable television set
portal frame
portal vein
portal-to-portal
portal-to-portal pay
portative organ
portcullis money
porte cochere
porte-
porte-cochere
porte-monnaie
porte-monnaies
porteous roll
porter aux nues
porter chair
porter's lodge
porter-house
porterhouse steak
porthole die
portia tree
portion off
portion or point of time
portion out
portioned out
portland cement
portmanteau word
portrait bust
portrait camera
portrait flask
portrait lens
portrait painter
portrait painting
portrait sculpture
portrait statue
portraying in the mind
portuguese man-of-war
portulan chart
pose a question
pose against
pose as
pose for effect
pose over against
posigrade rocket
posing against
posing over against
position artillery
position buoy
position co-ordinate
position code converter
position coder
position data transmitter
position effect
position finder
position indicator
position isomer
position isomerism
position light
position line
position paper
position target
position tracker
position warfare
positional error
positional notation
positioning mechanism
positive column
positive declaration
positive definiteness
positive direction of pitch
positive direction of roll
positive direction of yaw
positive electricity
positive electron
positive fact
positive feedback
positive geotropism
positive ion
positive law
positive lens
positive lift axis
positive misprision
positive organ
positive philosophy
positive polarity
positive pole
positive ray
positive reinforcement
positive statement
positive transference
positive valence
positive-ion accelerator
positively right
poss stick
poss tub
posse comitatus
possess authority
possess incriminating evidence
possess nine lives
possess one of the facts
possess sexually
possess your soul in patience
possess yourself
possess yourself of
possessed of
possessed with a demon
possessed with a devil
possessive adjective
possessive case
possessive pronoun
posset pot
possibility upon a possibility
possible choice
possum haw
possum oak
post auger
post bill
post bills
post binder
post boat
post brake
post captain
post car
post card
post cedar
post chaise
post chariot
post coach
post croaker
post day
post exchange
post hoc
post hoc ergo propter hoc
post horn
post horse
post hospital
post house
post insulator
post locust
post meridiem
post mortem
post note
post oak
post obitum
post octavo
post office
post office box
post partum
post quarto
post race
post road
post school
post term
post time
post town
post trader
post up
post-
post-Adamic
post-Advent
post-Alexandrine
post-Aristotelian
post-Augustan
post-Augustinian
post-Aztec
post-Babylonian
post-Biblical
post-Caesarean
post-Cambrian
post-Carboniferous
post-Carolingian
post-Cartesian
post-Cesarean
post-Chaucerian
post-Christian
post-Christmas
post-Columbian
post-Confucian
post-Constantinian
post-Copernican
post-Crusade
post-Darwinian
post-Davidic
post-Devonian
post-Diocletian
post-Easter
post-Elizabethan
post-Eocene
post-Galilean
post-Gothic
post-Hittite
post-Homeric
post-Ibsen
post-Impressionist
post-Johnsonian
post-Jurassic
post-Justinian
post-Jutland
post-Kansan
post-Kantian
post-Leibnitzian
post-Leibnizian
post-Lent
post-Linnean
post-Marxian
post-Mendelian
post-Mesozoic
post-Miocene
post-Mishnaic
post-Mishnic
post-Mishnical
post-Mosaic
post-Mycenean
post-Napoleonic
post-Newtonian
post-Nicene Fathers
post-Oligocene
post-Ordovician
post-Paleozoic
post-Pauline
post-Pentecostal
post-Permian
post-Petrine
post-Phidian
post-Platonic
post-Pleistocene
post-Pliocene
post-Pythagorean
post-Reformation
post-Renaissance
post-Restoration
post-Revolutionary
post-Roman
post-Romantic
post-Shakespearean
post-Shakespearian
post-Silurian
post-Socratic
post-Talmudic
post-Talmudical
post-Tertiary
post-Transcendental
post-Triassic
post-Tridentine
post-Vedic
post-Victorian
post-Volstead
post-audit
post-bag
post-bellum
post-boat
post-boy
post-captain
post-chaise
post-classical
post-communion
post-cyclic
post-date
post-diluvial
post-diluvian
post-factum
post-fine
post-free
post-glacial
post-graduate
post-haste
post-horn
post-horse
post-house
post-impressionism
post-impressionistic
post-juvenal
post-kantian
post-mortem
c post-mortem clot
post-mortem examination
post-oak grape
post-obit
post-obit bond
post-obituary
post-office address
post-office box
post-office car
post-office order
post-officer
post-ordinar
post-partum
postmortem diagnosis
postmortem examination
postnasal drip
postoperative shock
postpainterly abstraction
postpainterly abstractionist
posture maker
posture making
posture-maker
pot ale
pot arch
pot barley
pot bottom
pot cheese
pot companion
pot culture
pot derby
pot earth
pot fisher
pot fisherman
pot furnace
pot garden
pot hat
pot kiln
pot lace
pot layering
pot lead
pot liquor
pot maker
pot marigold
pot marjoram
pot metal
pot plant
pot roast
pot shot
pot spinning
pot still
pot valve
pot wheel
pot-au-feu
pot-bellied
pot-belly
pot-boiler
pot-bound
pot-boy
pot-clay
pot-color
pot-earth
pot-gun
pot-gutted
pot-herb
pot-hole
pot-hook
pot-house
pot-hunter
pot-lead
pot-lid
pot-liquor
pot-luck
pot-metal
pot-pie
pot-pourri
pot-rustler
pot-shaped
pot-shot
pot-sick
pot-valiance
pot-valiancy
pot-valiant
pot-valiantly
pot-valiantry
pot-valliance
pot-valor
pot-valorous
pot-wabbler
pot-walloper
pot-walloping
pot-wobblor
potage a la julienne
potage a la tete de veau
potage a la tortue
potage au tomate
potage aux herbes
potage volaille a la reine
potash alum
potash feldspar
potash granite
potash hunger
potash niter
potash soap
potassio-
potassium acetate
potassium acid carbonate
potassium acid oxala
potassium acid oxalate
potassium acid sulphate
potassium acid tartrate
potassium alum
potassium amide
potassium antimonate
potassium antimonyl
potassium antimonyl tartrate
potassium argon dating
potassium biaurate
potassium bichromate
potassium binoxalate
potassium bisulfate
potassium bisulphate
potassium bitartrate
potassium bromide
potassium carbonate
potassium chlorate
potassium chloride
potassium chromate
potassium chrome alum
potassium chromic sulfate
potassium cobaltinitrite
potassium cyanide
potassium dichromate
potassium ethyl xanthogenate
potassium ferricyanide
potassium ferrocyanide
potassium fluoride
potassium hydrate
potassium hydrogen tartrate
potassium hydroxide
potassium hypoantimonate
potassium hypochlorite
potassium iodide
potassium manganate
potassium myronate
potassium nitrate
potassium oxalate
potassium permanganate
potassium persulphate
potassium rhodanide
potassium sodium tartrate
potassium sulfate
potassium sulphate
potassium tetroxalate
potassium thiocyanate
potassium xanthate
potassium-argon dating

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potato aphid
potato apple
potato ball
potato bean
potato beetle
potato blight
potato bug
potato cake
potato canker
potato cellar
potato chip
potato chips
potato crisp
potato fern
potato flour
potato fork
potato fungus
potato hook
potato masher
potato mosaic
potato moth
potato mottle
potato murrain
potato onion
potato peeler
potato race
potato salad
potato scab
potato set
potato soup
potato tree
potato vine
potato wart
potato weevil
potato whisky
potato worm
potato-sick
potbellied stove
potcher engine
potcher man
potent cross
potent-counterpotent
potential cautery
potential difference
potential divider
potential energy
potential gradient
potentiometric titration
pothooks and hangers
pott octavo
pott quarto
pott's disease
potter away
potter bee
potter wasp
potter's clay
potter's earth
potter's field
potter's wheel
pottern ore
pottery tissue
pottery tree
potting shed
pottle pot
pottle-bellied
pottle-bodied
pottle-crowned
pottle-deep
potty-chair
pou de ciel
pou sto
pouch bone
pouch-shaped
pouched mole
pouched rat
poulard wheat
poulette sauce
poult-de-soie
poulter's measure
poultry breeder
poultry breeding
poultry buyer
poultry buyer
poultry car
poultry car
poultry culture
poultry dealer
poultry dresser
poultry dressing
poultry fancier
poultry fancying
poultry farm
poultry farmer
poultry farming
poultry feed
poultry grower
poultry house
poultry husbandry
poultry judging
poultry keeper
poultry keeping
poultry raiser
poultry raising
poultry rearing
poultry shop
poultry show
poultry stall
poultry tick
poultry wire
poultry yard
pounce bag
pounce box
pounce on
pounce paper
pounce tree
pounce upon
pounce box
pouncet box
pouncing paper
pound Scots
pound apothecaries'
pound avoirdupois
pound away
pound boat
pound brush
pound cake
pound degree
pound in
pound lock
pound mile
pound net
pound of flesh
pound out
pound sovereign
pound sterling
pound the ear
pound troy
pound-cake
pound-folly
pound-foolish
pound-foolishness
pound-foot
pound-force
pound-trap
pound-weight
pounds in after trim
pounds of thrust
pour a broadside into
pour balm into
pour balm on
pour balm upon
pour down
pour down the drain
pour down the rathole
pour forth
pour in
pour it on
pour money into
pour oil on
pour oil on the blaze
pour oil on the fire
pour oil on troubled waters
pour oil upon
pour on
pour on the coal
pour out
pour out blood like water
pour out the vials of your wrath
pour out vials of wrath
pour over
pour plate
pour point
pour test
pour water into a sieve
pour water on
pour with rain
pourer-off
pourer-out
pouring basin
pouring basket
pouring box
pouring rain
pousse-caf
pousse-cafe
poverty birch
poverty grass
poverty plant
poverty subculture
poverty-proof
poverty-stricken
pow wow
powder and shot
powder barrel
powder beef
powder blue
powder box
powder boy
powder burn
powder charge
powder chest
powder compact
powder down
powder flag
powder flask
powder grain
powder gray
powder horn
powder house
powder keg
powder magazine
powder maker
powder metallurgy
powder mill
powder monkey
powder paper
powder pimperlimpimp
powder post
powder puff
powder room
powder ship
powder snow
powder train
powder-black
powder-blue
powder-charged
powder-down
powder-flask
powder-gray
powder-horn
powder-laden
powder-marked
powder-monkey
powder-post beetle
powder-posted
powder-puff
powder-scorched
powder-tinged
powdered milk
powdered soap
powdered sugar
powdery mildew
power amplifier
power base
power behind the throne
power brake
power brakes
power broker
power cab
power cable
power chain
power cruiser
power cut
power dive
power drill
power duster
power elite
power engineer
power engineering
power factor
power for good
power gas
power grab
power jack
power line
power load
power loading
power loom
power meter
power microscope
power mower
power of appointment
power of attorney
power of expression
power of mind
power of mind over matter
power of money
power of reason
power of sight
power of suggestion
power of the keys
power of thought
power off
power pack
power plant
power play
power plug
power point
power politics
power press
power pump
power punch
power rail
power reactor
power relay
power sander
power saw
power sawyer
power series
power servo
power set
power shaft
power shears
power shovel
power source
power spin
power sprayer
power station
power steering
power stroke
power structure
power struggle
power supply
power take-off
power to act
power tool
power train
power transformer
power tube
power vacuum
power vessel
power weaver
power wheel
power-assisted steering
power-breeder reactor
power-directional relay
power-dive
power-dived
power-diving
power-dove
power-driven
power-elated
power-hunger
power-hungry
power-loom
power-operate
power-operated
power-packed
practice on your credulity
practice philosophy
practice self-control
practice self-denial
practice sorcery
practice spiritualism
practice teacher
practice teaching
practice the golden rule
practice upon
practice-teach
practiced hand
prae-
praedium dominans
praedium serviens
praemunientes clause
praemunientes writ
praetorian guard
pragmatic logic
pragmatic sanction
pragmatic theory
pragmatic theory of truth
prairie acacia
prairie artichoke
prairie aster
prairie breaker
prairie button snakeroot
prairie chicken
prairie clover
prairie coneflower
prairie crab apple
prairie dock
prairie dog
prairie falcon
prairie fire
prairie fowl
prairie fox
prairie goose
prairie grouse
prairie hen
prairie itch
prairie june grass
prairie larkspur
prairie lily
prairie mallow
prairie marmot
prairie owl
prairie oyster
prairie phlox
prairie pine
prairie pointer
prairie poppy
prairie rattlesnake
prairie rocket
prairie rose
prairie sage
prairie schooner
prairie smoke
prairie soil
prairie squirrel
prairie turnip
prairie violet
prairie wakerobin
prairie warbler
prairie wolf
praise Father
praise God
praise and glorify God
praise meeting
praise the Lord
praise to excess
praise to the skies
praise ye Him all His hosts
praise ye the Lord
praise-begging
praise-deserving
praise-fed
praise-giving
praise-spoiled
praise-winning
pram bow
prank up
praso-
pray God that
pray do
pray for quarter
pray over
prayer bead
prayer beads
prayer book
prayer carpet
prayer flag
prayer machine
prayer mat
prayer meeting
prayer mill
prayer of thanks
prayer paper
prayer rug
prayer scarf
prayer service
prayer shawl
prayer tower
prayer wheel
prayer-answering
prayer-book
prayer-clenched
prayer-granting
prayer-hearing
prayer-lisping
prayer-loving
prayer-repeating
prayerful hope
praying cylinder
praying mantis
pre-
pre-Achaean
pre-Alfredian
pre-American
pre-Ammonite
pre-Ammonitish
pre-Armistice
pre-Arthurian
pre-Aryan
pre-Assyrian
pre-Augustan
pre-Augustine
pre-Babylonian
pre-Baconian
pre-British
pre-Buddhist
pre-Byzantine
pre-Cambrian
pre-Cambridge
pre-Canaanite
pre-Canaanitic
pre-Carboniferous
pre-Carolingian
pre-Catholic
pre-Celtic
pre-Centennial
pre-Chaucerian
pre-Chellean
pre-Chinese
pre-Christian
pre-Christianic
pre-Christmas
pre-Columbian
pre-Columbian art
pre-Congregationalist
pre-Congress
pre-Conquest
pre-Copernican
pre-Copernicanism
pre-Crusade
pre-Dantean
pre-Darwinian
pre-Darwinianism
pre-Dickensian
pre-Dorian
pre-Doric
pre-Dravidian
pre-Dravidic
pre-Dutch
pre-Easter
pre-Elizabethan
pre-Empire
pre-English
pre-French
pre-Georgian
pre-German
pre-Germanic
pre-Gothic
pre-Greek
pre-Han
pre-Hebrew
pre-Hellenic
pre-Hieronymian
pre-Hinduized
pre-Hispanic
pre-Homeric
pre-Inca
pre-Incan
pre-Incarial
pre-Indian
pre-Irish
pre-Islam
pre-Islamic
pre-Islamite
pre-Islamitic
pre-Israelite
pre-Israelitish
pre-Jewish
pre-Johannine
pre-Johnsonian
pre-Justinian
pre-Kantian
pre-Koranic
pre-Latin
pre-Linnaean
pre-Linnean
pre-Luciferian
pre-Lutheran
pre-Malay
pre-Malayan
pre-Malaysian
pre-Marxian
pre-Mendelian
pre-Messianic
pre-Methodist
pre-Mohammedian
pre-Mongolian
pre-Mosaic
pre-Moslem
pre-Muslim
pre-Mycenaean
pre-Napoleonic
pre-Newtonian
pre-Noachian
pre-Norman
pre-Norse
pre-Osmanli
pre-Palaeozoic
pre-Paleozoic
pre-Patrician
pre-Pauline
pre-Permian
pre-Persian
pre-Petrine
pre-Pharaonic
pre-Phidian
pre-Polish
pre-Pueblo
pre-Puebloan
pre-Raphael
pre-Raphaelism
pre-Raphaelite
pre-Raphaelitic
pre-Raphaelitish
pre-Raphaelitism
pre-Reconstruction
pre-Reformation
pre-Renaissance
pre-Restoration
pre-Revolution
pre-Roman
pre-Sargonic
pre-Saxon
pre-Semitic
pre-Shakespeare
pre-Shakespeare
pre-Shakespearian
pre-Silurian
pre-Socratic
pre-Solomonic
pre-Solonian
pre-Spanish
pre-Sumerian
pre-Syriac
pre-Syrian
pre-Tertiary
pre-Thanksgiving
pre-Tridentine
pre-Tudor
pre-Victorian
pre-Virgilian
pre-Volstead
pre-adamite
pre-amp
pre-audit
pre-axial
pre-chellean
pre-christian
pre-conquestal
pre-contract
pre-distortion
pre-earthly
pre-earthquake
pre-eclampsia
pre-eclamptic
pre-economic
pre-economical
pre-edit
pre-edition
pre-editor
pre-editorial
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pre-emptioner
pre-emptive
pre-emptively
pre-emptor
pre-emptory
pre-enable
pre-enact
pre-enaction
pre-enclose
pre-enclosure
pre-encounter
pre-encourage
pre-encouragement
pre-endeavor
pre-endorse
pre-endorsement
pre-endorser
pre-energetic
pre-energy
pre-enforce
pre-enforcement
pre-engage
pre-engagement
pre-engineering
pre-enjoy
pre-enjoyable
pre-enjoyment
pre-enlarge
pre-enlargement
pre-enlighten
pre-enlightener
pre-enlightening
pre-enlightenment
pre-enlist
pre-enlistment
pre-enroll
pre-enrollment
pre-entail
pre-entailment
pre-enter
pre-entertain
pre-entertainer
pre-entertainment
pre-enthusiasm
pre-enthusiastic
pre-entitle
pre-entrance
pre-entry
pre-enumerate
pre-enumeration
pre-envelop
pre-envelopment
pre-environmental
pre-epic
pre-epidemic
pre-epochal
pre-equalization
pre-equip
pre-equipment
pre-equity
pre-erect
pre-erection
pre-erupt
pre-eruption
pre-eruptive
pre-escape
pre-escort
pre-esophageal
pre-essay
pre-essential
pre-establish
pre-established
pre-establisher
pre-establishment
pre-esteem
pre-estimate
pre-estimation
pre-estival
pre-eter
pre- eternal
pre-evade
pre-evaporate
pre-evaporation
pre-evaporator
pre-evasion
pre-evidence
pre-evident
pre-evidently
pre-evite
pre-evolutional
pre-evolutionary
pre-evolutionist
pre-exact
pre-exaction
pre-examination
pre-examine
pre-experiment
pre-experimental
pre-expiration
pre-explain
pre-explanation
pre-explanatory
pre-expelode
pre-explosion
pre-expose
pre-exposition
pre-exposure
pre-expound
pre-expounder
pre-express
pre-expression
pre-expressive
pre-extend
pre-extensive
pre-extensively
pre-extent
pre-extinction
pre-extinguish
pre-extinguishment
pre-extract
pre-extraction
pre-fabulous
pre-free-trade
pre-glacial
pre-ignition
pre-judicial
pre-judiciary
pre-man
pre-operculum
pre-option
pre-orbital
pre-ordinate
pre-preference
pre-raphael
pre-raphaelite
pre-raphaelitism
pre-shrunk
pre-socratic
pre-sternum
pre-teens
preach to the winds
preacher bird
preaching brother
preaching friar
preaching-house
prealternate molt
prebasic molt
prebendal stall
precedent condition
precession of the equinoxes
precinct captain
precinct house
precinct leader
precious coral
precious heart
precious little
precious metal
precious metals
precious moonstone
precious opal
precious rascal
precious stone
precipitable water
precipitate yourself
precipitation hardening
precision balance
precision barometer
precision block
precision bomber
precision bombing
precision caliper
precision camera
precision casting
precision clock
precision focusing
precision gauge
precision gauge block
precision grinding
precision instrument
precision lathe
precision lens
precision meter
precision punch
precision scale
precision screw
precision tool
precision weight
precision-production control
preclinical medicine
precombustion engine
precordial anxiety
precordial pain
precordial region
predaceous diving beetle
predation pressure
predicate adjective
predicate calculus
predicate nominative
predicate noun
predicate objective
predicated on
predictable error
predictable response
predictable within limits
predisposed to
predominance of Aquarius
pree the mouth of
preen gland
preen yourself
prefabricated house
prefect apostolic
prefects apostolic
prefecture apostolic
prefectures apostolic
prefer a claim
prefer a petition
prefer charges
prefer to
prefer your own company
preference for the best
preference primary
preference share
preference shares
preference stock
preferential shop
preferential system
preferential treatment
preferential voting
prefernce bond
prefernce freight
preferred lie
preferred position
preferred stock
prefree-trade
prefrontal leucotomy
prefrontal lobotomy
pregenital fixation
pregnant imagination
pregnant moment
pregnant of good
pregnant with meaning
prehensile tail
prehistoric animal
prehistoric animals
prehistoric anthropology
prehistoric archaeology
prehistoric man
prehistoric races
prejudice against
prejudice the issue
prejudice-proof
prelapsarian state
prelate nullius
preliminary act
preliminary approach
preliminary convention
preliminary examination
preliminary measure
preliminary sign
preliminary signal
preliminary step
preliminary study
premarital relations
premarital sex
premature acceptance
premature baby
premature beat
premature contraction
premature judgment
premier danseur
premier performance
premiere danseuse
premiers danseurs
premium bond
premium bonds
premium gas
premium note
premium system
premonitory chill
premonitory plague
premonitory shiver
premonitory sign
premonitory symptom
prenatal Informal
prendre la balle au bond
prep school
prep schooler
preparatory act
preparatory instruction
preparatory measure
preparatory school
preparatory step
preparatory study
prepare against
prepare food
prepare for
prepare for burial
prepare for the evil day
prepare the ground
prepare the way
prepare to
prepare yourself
prepared and ready
prepared for
prepared for either course
prepared piano
prepared speech
prepared text
prepay station
prepositional phrase
prerogative court
prerogative instance
prerogative office
prerogative writ
presby-
preschool child
prescribe for
prescribed form
prescription drug
prescriptive grammar
preseasonal treatment
presence chamber
presence of God
presence of mind
presence room
presence-chamber
presenile dementia
present a bold front
present a petition
present a position paper
present a true bill
present arms
present difficulties
present itself
present itself to the mind
present itself to the thoughts
present no difficulties
present participle
present perfect
present tense
present the appearance of
present to
present to the eye
present to the eyes
present to the mind
present value
present your case
present yourself
present yourself to view
present-age
present-day
present-minded
present-time
presentation copy
presentation of the case
presentation time
presentative realism
presenting arms
preservative medium
preserve a balance
preserve a middle course
preserve an even course
preserve from oblivion
preserve your dignity
preserve your honor
preset board
preset control board
preside at the board
preside over
president general
president pro tempore
president-elect
presidential election
presidential government
presidential palace
presidential papers
presidential preference primary
presidential primary
presidential timber
presiding judge
presiding officer
press agency
press agent
press association
press bed
press boava
press box
press boy
press brake
press bundler
press bureau
press cake
press camera
press card
press charges
press clipper
press clipping
press cloth
press conference
press copy
press corrector
press correspondent
press cupboard
press down
press drill
press fastener
press feeder
press fit
press fitter
press forward
press gallery
press gang
press hard upon
press heavy on
press her
press in
press into service
press iron
press money
press notice
press objections
press of business
press of canvas
press of sail
press on
press onward
press operator
press out
press proof
press release
press roll
press section
press stud
press tender
press the attack
press time
press to the bosom
press to the ground
press upon
press your hand
press your suit
press, the
press-agent
press-agentry
press-bed
press-forgé
press-gang
press-made
press-mark
press-money
press-noticed
press-point
press-ridden
press-room
press-up
press-warrant
press-work
press-yard
pressed beef
pressed brick
pressed down
pressed for time
pressed glass
pressed hardboard
presser bar
presser foot
presser shoe
presser wheel
pressing boards
pressing iron
pressing out
pressure altimeter
pressure altitude
pressure atrophy
pressure blower
pressure boiler
pressure bottle
pressure box
pressure cabin
pressure center
pressure coil
pressure control
pressure cooker
pressure drag
pressure element
pressure evaporator
pressure fan
pressure filter
pressure gauge
pressure governor
pressure gradient
pressure group
pressure head
pressure hull
pressure ice
pressure indicator
pressure microphone
pressure mine
pressure neuropathy
pressure nozzle
pressure point
pressure producer
pressure pump
pressure recorder
pressure register
pressure regulator
pressure ridge
pressure saucepan
pressure sense
pressure siphon
pressure spot
pressure spring
pressure stage
pressure suit
pressure syllable
pressure tank
pressure transducer
pressure transmitter
pressure tube
pressure valve
pressure warrant
pressure welding
pressure wire
pressure-cook
pressure-fixing
pressure-group politics
pressure-reciprocating
pretty wit
pretty-behaved
pretty-by-night
pretty-face
pretty-faced
pretty-footed
pretty-humored
pretty-looking
pretty-mannered
pretty-pretty
pretty-spoken
pretty-toned
pretty-witted
prevail on
prevail over
prevail upon
prevail with
prevailing belief
prevailing sentiment
prevailing taste
prevailing westerlies
prevailing wind
prevenient grace
preventer backstay
preventer plate
preventer stay
prevention-proof
preventive custody
preventive dentist
preventive dentistry
preventive detention
preventive law
preventive measure
preventive medicine
preventive treatment
preventive war
previous question
previous time
previous to
prey on
prey on the mind
prey to blind fear
prey to malaise
prey upon
pribble-prabble
price ceiling
price control
price controls
primary anemia
primary atypical pneumonia
primary battery
primary burial
primary cell
primary coil
primary color
primary colour
primary contact
primary derivative
primary digestion
primary education
primary election
primary electron
primary evidence
primary form
primary group
primary highway
primary infection
primary intention
primary oocyte
primary optical area
primary phloem
primary pigment
primary processes
primary quality
primary road
primary scholar
primary school
primary schooler
primary sex character
primary sex characteristic
primary spermatocyte
primary stress
primary syphilis
primary trainer
primary type
primary wave
prime coat
prime cost
prime field
prime focus
prime hours
prime ideal
prime interest rate
prime interval
prime investment
prime issue
prime meridian
prime minister
prime ministry
prime mover
prime number
prime number theorem
prime of life
prime of the morning
prime of the year
prime rate
prime song
prime the pump
prime time
prime tone
prime vertical
prime-ministerial
prime-ministrieship
prime-ministry
primed for
primeval forest
priming boiler
priming charge
primitive Indo-European
primitive arch
primitive art
primitive church
primitive faith
primitive polynomial
primitive self
primitive settler
primo tenore
primp up
primrose green
primrose path
primrose peerless
primrose tree
primrose willow
primrose yellow
primrose-colored
primrose-decked
primrose-dotted
primrose-haunted
primrose-leaved
primrose-scented
primrose-spangled
primrose-starred
primrose-sweet
primrose-tinted
primrose-yellow
primuline color
primuline yellow
primum mobile
primus inter pares
primus stove
prince albert
prince charming
prince consort
prince elector
prince of wales
prince regent
prince royal
prince’s feather
prince’s pipe
prince’s-feather
prince’s-pine
prince-abbot
prince-angel
prince-bishop
prince-duke
prince-elector
prince-general
prince-killing
prince-poet
prince-president
prince-priest
prince-primate
prince-protected
prince-proud
prince-ridden
prince-teacher
prince-trodden
prince-wood
princes of India
princess pine
princess post
princess regent
princess royal
princess tree
princess-ship
principal argument
principal axis
principal boy
principal character
principal clause
principal diagonal
principal focus
prison-making
prison-taught
prisoner of war
prisoner's base
prisoner-of-war camp
prisoner-of-war stockade
prisoners' bars
prisse papyrus
pristine ignorance
prittle-prattle
private aims
private attorney
private aviation
private bill
private branch exchange
private business exchange
private checker
private company
private conference
private desires
private detective
private enterprise
private eye
private first class
private flying
private hospital
private hotel
private income
private information
private instructor
private international law
private investigator
private judgment
private knowledge
private law
private line
private matter
private means
private member
private ownership
private parts
private patient
private pilot
private plane
private practice
private press
private road
private room
private school
private secretary
private sector
private teaching
private treaty
private-duty nurse
private-enterprise
private-enterprise economy
private-line car
privation-proof
privet adelia
privet andromeda
privet hawk
privet honeysuckle
privilege from
privileged communication
privileged question
privy chamber
privy council
privy councilor
privy counsellor
privy parts
privy purse
privy seal
privy to
privy-councilship
prix fixe
prix fixes
prize court
prize crew
prize fight
prize fighter
prize fighting
prize flag
prize money
prize open
prize out
prize ring
prize sap
prize winner
prize-fight
prize-fighter
prize-giving
prize-playing
prize-ring
prize-taking
prize-winning
pro and con
pro bono publico
pro forma
pro forma balance sheet
pro memoria
pro patria
pro patria mori
pro rata
pro tanto
pro tem
pro tempore
pro-
pro-Abyssinian
pro-Alabaman
pro-Alaskan
pro-Algerian
pro-Alsatian
pro-American
pro-Americanism
pro-Anglican
pro-Arab
pro-Arabian
pro-Arabic
pro-Argentine
pro-Arian
pro-Aristotelian
pro-Armenian
pro-Asian
pro-Asiatic
pro-Athenian
pro-Australian
pro-Austrian
pro-Baconian
pro-Baptist
pro-Belgian
pro-Bessarabian
pro-Biblical
pro-Bohemian
pro-Bolivian
pro-Bolshevist
pro-Bolshevism
pro-Bolshevist
pro-Brazilian
pro-British
pro-Buddhist
pro-Bulgarian
pro-Burman
pro-Cambodia
pro-Cameroun
pro-Canadian
pro-Catholic
pro-Catholicism
pro-Ceylon
pro-Chilean
pro-Chinese
pro-Colombian
pro-Confederate
pro-Congolese
pro-Congressional
pro-Cuban
pro-Cyprus
pro-Czech
pro-Czechoslovakian
pro-Danish
pro-Darwin
pro-Darwinian
pro-Darwinism
pro-Denmark
pro-Dominican
pro-East
pro-Eastern
pro-Ecuador
pro-Egyptian
pro-Elizabethan
pro-Emersonian
pro-English
pro-Eskimo
pro-Ethiopian
pro-European
pro-Finnish
pro-Florentine
pro-France
pro-French
pro-Freud
pro-Freudian
pro-Gaelic
pro-Gentile
pro-German
pro-Ghana
pro-Gothic
pro-Grecian
pro-Greek
pro-Guatemalan
pro-Haitian
pro-Hawaiian
pro-Hellenic
pro-Hindu
pro-Hitler
pro-Honduran
pro-Hungarian
pro-Icelandic
pro-Indian
pro-Indonesian
pro-Iranian
pro-Iraq
pro-Iraqi
pro-Irish
pro-Israel
pro-Israeli
pro-Italian
pro-Jacobean
pro-Japanese
pro-Jeffersonian
pro-Jewish
pro-Jordan
pro-Korean
pro-Koweit
pro-Kuwait
pro-Laotian
pro-Latin
pro-Lebanese
pro-Liberian
pro-Lybian
pro-Madagascan
pro-Malayan
pro-Malaysian
pro-Methodist
pro-Mexican
pro-Monaco
pro-Moroccan
pro-Moslem
pro-Moslem
pro-Muslem
pro-Muslim
pro-Negro
pro-Nigerian
pro-Nordic
pro-North
pro-Northern
pro-Norwegian
pro-Oriental
pro-Panama
pro-Panamanian
pro-Paraguay
pro-Paraguayan
pro-Peruvian
pro-Philippine
pro-Polish
pro-Portuguese
pro-Presbyterian
pro-Protestant
pro-Prussian
pro-Quaker
pro-Renaissance
pro-Rumanian
pro-Russian
pro-Scandinavian
pro-Scriptural
pro-Scripture
pro-Somalia
pro-South
pro-Southern
pro-Soviet
pro-Spain
pro-Spanish
pro-Sudanese
pro-Sweden
pro-Swedish
pro-Swiss
pro-Switzerland
pro-Syrian
pro-Tunisian
pro-Turkey
pro-Turkish
pro-Unitarian
pro-United States
pro-Uruguayan
pro-Venezuelan
pro-Vietnamese
pro-West
pro-Western
pro-Whig
pro-Yugoslav
pro-Yugoslavian
pro-Zionism
pro-Zionist
pro-am
pro-art
pro-budgeting
pro-bus
pro-cathedral
pro-city
pro-co-operation
pro-form
pro-government
pro-immigrationist
pro-infinitive
pro-man
pro-modern
pro-observance
pro-oceanic
pro-ode
pro-oestrous
pro-oestrum
pro-oestrus
pro-oestrys
pro-opera
pro-operation
pro-opic
pro-opium
pro-orthodox
pro-orthodoxical
pro-orthodoxy
pro-ostracal
pro-ostracum
pro-otic
pro-pre-existentiary
pro-proctor
pro-rata
pro-rate
pro-rector
pro-rex
pro-skin
pro-state
pro-strike
pro-vice-chancellor
proAfrican
proactive inhibition
probability curve
probability density function
probability distribution
probability function
probability theory
probable cause
probable error
probate bond
probate court
probate duty
probate judge
probation officer
probatum est
probe scissors
probe-pointed
probirth-control
problem drinker
problem drinking
problem novel
problem play
problems in living
problon is a probability
proboscis monkey
procaine amide
procaryotic cell
proceed from
proceed out in the open
proceed to
proceed with
proces verbal
proces-verbal
proces-verbaux
process butter
process cheese
process control
process costing
process lag
process loop
process milling
process of time
process photos
process plate
process printer
process printing
process server
process shot
process variable
process-control system
process-server
processed cheese
processing solution
processing tax
procession flower
processional march
processionary moth
prochain ami
prochein ami
prochein amy
proclaim at Charing Cross
proclaim at the crossroads
proclaim at the market cross
professional status
professor emeritus
professor ordinarius
proffer aid
proffer yourself
proficiency badge
proficient in
profile board
profile cutter
profile drag
profile line
profile machine
profile map
profile microscope
profile paper
profile plan
profiling machine
profit and loss
profit and loss account
profit by
profit sharing
profit system
profit taking
profit-and-loss
profit-building
profit-making
profit-producing
profit-seeking
profit-sharing
profit-taking
profit-yielding
profound idiocy
profound knowledge
profound secret
profound sense
profound sleep
profound thought
prognostic chart
program clock
program director
program discriminator
program feed
program music
program of action
program of music
program of operation
program picture
programme music
programmed instruction
programmed learning
programming language
progress chart
progress clerk
progress of time
progressive conservative
progressive jazz
progressive proof
progressive school
progressive sorites
progressive tax
progressive taxation
progressive tense
progressive trials
prohibition-proof
prohibitory injunction
project over
projected window
projectile anchor
projectile lathe
projectile rocket
projecting microscope
projection booth
projection fiber
projection machine
projection print
projection printing
projection room
projection tube
projective geometry
projective property
projective test
projector lamp
projector tube
prolate spheroid
proletarian novel
proliferative arthritis
prolong the agony
prolonge knot
prolonged narcosis
promenade concert
promenade deck
promenade tile
promethea moth
prominent belly
promise in marriage
promise of harm
promise-bound
promise-breach
promise-breaking
promise-crammed
promise-fed
promise-fulfilling
promise-keeping
promise-led
promise-making
promise-performing
promised land
promissory note
promoter of the faith
promotional material
prompt dower
prompt note
prompt side
prompt the mind
prompter's box
prone before
prone float
prone pressure method
prone to
prong box
prong budding
prong chuck
prong die
prong hoe
prong key
prong-horned
pronghorn antelope
pronounce judgment
pronounce on
pronounce sentence
prony brake
proof against
proof armor
proof before letter
proof charge
proof coin
proof correction
proof leaf
proof paper
proof plane
proof planer
proof press
proof sheet
proof spirit
proof stress
proof-correct
proof-proof
proof-spirit
prop joint
prop man
prop root
prop up
prop word
prop-
prop-wash
propaganda novel
propaganda-proof
propanoic acid
propeller horsepower
propeller plane
propeller post
propeller race
propeller shaft
propeller thrust
propeller torque
propeller wash
propeller-drive gas turbine
propeller-jet engine
propelling charge
propelling nozzle
propelling pencil
propenyl alcohol
propenyl group
propenyl radical
proper adjective
proper claim
proper fraction
proper function
proper motion
proper name
proper noun
proper occasion
proper piloting
proper subalgebra
proper subset
proper task
proper thing
proper time
proper to
proper value
propertied person
property damage insurance
property insurance
property line
property man
property master
property owner
property right
property rights
property roll
property tax
property transfer
property-increment tax
property-owning
prophet flower
prophet of doom
prophet-bard
prophet-flower
prophet-king
prophet-painter
prophet-poet
prophet-preacher
prophet-statesman
prophetic revelation
prophetico-historical
prophylactic psychiatry
prophylactic psychology
propio-
propionic acid
propitiatory gift
propjet engine
proportional band
proportional control
proportional counter
proportional ionization chamber
proportional limit
proportional parts
proportional representation
proportional tax
proportioning lever
proposal bond
propose a question
propose to
proposed explanation
propositional calculus
propositional function
propound a question
proprietary colony
proprietary drug
proprietary hospital
proprietary medicine
proprietary name
proprietary rights
proprio motu
props from under one
props from under you
propter hoc
propulsion charge
propulsive duct
propulsive efficiency
propyl alcohol
propyl aldehyde
propylene glycol
propylphenyl acetate
pros and cons
pros-
proscenium arch
proscenium box
proscenium boxes
proscenium stage
prose fiction
prose poem
prose poet
prose poetry
prose rhythm
prose run mad
prose style
prose writer
prosecute a suit against
prosecute at law
prosecute to a conclusion
prosecuting attorney
prosecution-proof
prosodic form
prosodic pattern
prospect glass
prospective glass
prospective-glass
prosperity-proof
prosperous issue
prostate gland
prostatic fluid
prosthetic dentistry
prosthetic group
prostrate before
prostrate yourself
prostrate yourself before
prot-
prote-  
protean actor  
protected anchorage  
protected cruiser  
protection forest  
protection racket  
protective clothing  
protective coloration  
protective covering  
protective custody  
protective deck  
protective mimicry  
protective slope  
protective stock  
protective system  
protective tariff  
protective umbrella  
protector paravane  
protein crystal  
protein deficiency  
protein factor  
protein fever  
protein fibers  
protein milk  
protein plastic  
protein shock  
protein therapy  
protein-free  
proteolytic enzyme  
protero-  
protest against  
protest demonstration  
protest flag  
protest too much  
protested bill  
proteus animalcule  
prothetic vowel  
prothonotary apostolic  
prothonotary warbler  
proto-  
protocol sentence  
protocol statement  
proton gun  
proton number  
proton reaction  
proton-synchrotron  
protoxide of nitrogen  
protozoan disease
protracted meeting
protruding belly
proud as Lucifer
proud as a peacock
proud bearing
proud flesh
proud-blind
proud-blooded
proud-crested
proud-exulting
proud-glancing
proud-hearted
proud-looking
proud-minded
proud-mindedness
proud-paced
proud-pillared
proud-prancing
proud-quirered
proud-spirited
proud-stomached
provable fact
provascular tissue
prove false
prove out
prove the contrary
prove to be
prove true
prove up
prove your point
proved fact
proverbial saying
province-chancellor
provide a hedge
provide a rationale
provide against
provide against a rainy day
provide capital for
provide for
provide for a rainy day
provide money for
provide the wherewithal
provide with a roof
provided always
provided for
provided school
provided that
provident care
provident club
provident society
provincial court
provincial legislature
provincial parliament
provincial police
provincial tax
proving ground
proving out
provision account
provision of capital
provision tree
provisional government
provisionally accept
provisionally admit
provolone cheese
provost court
provost guard
provost marshal
provost-marshall
prow on
prowl after
prowl car
proximal convoluted tubule
proximate analysis
proximate cause
proxime accessit
proximity fuse
proximity fuze
proximity meter
proxy marriage
proxy statement
proxy voting
prudent administration
prudential administration
prune purple
prune tree
prunes and prisms
pruning hook
pruning saw
pruning shears
prurient interest
prussian blue
prussic acid
pry around
pry into
pry into the future
pry loose from
pry open
pry out
pry pole
psalm book
psalm singer
psalm tone
psalm tune
psammo-
pseudo- pseudo abolitionist
pseudo abstainer
pseudo academy
pseudo acceptance
pseudo accident
pseudo acid
pseudo acquaintance
pseudo actor
pseudo actress
pseudo aesthete
pseudo aestheticism
pseudo affection
pseudo agent
pseudo alliance
pseudo ally
pseudo alumna
pseudo alumnus
pseudo amateur
pseudo analogy
pseudo ancestor
pseudo angel
pseudo animal
pseudo animalism
pseudo announcement
pseudo apology
pseudo applicant
pseudo application
pseudo appointment
pseudo appreciation
pseudo aristocrat
pseudo arrest
pseudo art
pseudo artist
pseudo asceticism
pseudo assertion
pseudo association
pseudo astonishment
pseudo aunt
pseudo author
pseudo authoress
pseudo authorization
pseudo bacillus
pseudo banker
pseudo bankruptcy
pseudo baptism
pseudo bard
pseudo base
pseudo benefactor
pseudo benefactress
pseudo benevolence
pseudo bible
pseudo biographer
pseudo biography
pseudo biology
pseudo bird
pseudo bishop
pseudo boa
pseudo bookcase
pseudo boy
pseudo bride
pseudo broker
pseudo brokerage
pseudo brother
pseudo cancellation
pseudo candidacy
pseudo candidate
pseudo candor
pseudo captive
pseudo capture
pseudo catholic
pseudo catholicism
pseudo census
pseudo champion
pseudo championship
pseudo charity
pseudo chemist
pseudo chemistry
pseudo citizen
pseudo citizenship
pseudo clergy
pseudo clergyman
pseudo clerk
pseudo client
pseudo club
pseudo college
pseudo competitor
pseudo conclusion
pseudo cone
pseudo confession
pseudo confessional
pseudo confirmation
pseudo conflict
pseudo connection
pseudo consent
pseudo conservator
pseudo conversion
pseudo cook
pseudo cordiality
pseudo corporation
pseudo count
pseudo courtesy
pseudo courtier
pseudo cousin
pseudo creditor
pseudo crisis
pseudo critic
pseudo criticism
pseudo crystal
pseudo cult
pseudo cultivation
pseudo culture
pseudo date
pseudo death
pseudo declaration
pseudo deficit
pseudo delegate
pseudo delegation
pseudo democracy
pseudo deputation
pseudo deputy
pseudo devotee
pseudo devotion
pseudo dike
pseudo diplomacy
pseudo diplomat
pseudo distance
pseudo distribution
pseudo distributor
pseudo divination
pseudo divine
pseudo divinity
pseudo doctor
pseudo donation
pseudo donor
pseudo drama
pseudo dramatist
pseudo duke
pseudo earl
pseudo economics
pseudo economy
pseudo editor
pseudo editorial
pseudo education
pseudo educator
pseudo election
pseudo electorate
pseudo emotion
pseudo endeavor
pseudo enthusiasm
pseudo enthusiast
pseudo episcopacy
pseudo equality
pseudo ethics
pseudo etymologist
pseudo etymology
pseudo evangelist
pseudo example
pseudo exemplar
pseudo experiment
pseudo expert
pseudo exposure
pseudo fabric
pseudo failure
pseudo faith
pseudo fame
pseudo farmer
pseudo farming
pseudo father
pseudo femininity
pseudo feminism
pseudo feminist
pseudo fertilization
pseudo finality
pseudo flatterer
pseudo flattery
pseudo form
pseudo fruit
pseudo generosity
pseudo geniality
pseudo genius
pseudo gentility
pseudo gentleman
pseudo geyser
pseudo meditation
pseudo member
pseudo membership
pseudo memory
pseudo messenger
pseudo militarism
pseudo minister
pseudo ministry
pseudo miracle
pseudo modesty
pseudo monastery
pseudo monk
pseudo moralist
pseudo morality
pseudo myth
pseudo narcotism
pseudo nationalism
pseudo nobility
pseudo noble
pseudo nymph
pseudo occidentalism
pseudo occupation
pseudo official
pseudo officialism
pseudo orientalism
pseudo owner
pseudo pagan
pseudo parallel
pseudo parasite
pseudo parent
pseudo parson
pseudo participation
pseudo partner
pseudo partnership
pseudo pastor
pseudo pastorate
pseudo patriot
pseudo patriotism
pseudo patron
pseudo patronage
pseudo payment
pseudo peasant
pseudo peasantry
pseudo philanthropist
pseudo philanthropy
pseudo philologist
pseudo philology
pseudo philosopher
pseudo philosophy
pseudo physician
pseudo piety
pseudo pigmentation
pseudo poet
pseudo poetess
pseudo poetry
pseudo politician
pseudo politics
pseudo popularity
pseudo possession
pseudo possessor
pseudo poverty
pseudo precedent
pseudo prescription
pseudo presentiment
pseudo priest
pseudo priesthood
pseudo prince
pseudo principality
pseudo profession
pseudo professor
pseudo prohibition
pseudo prohibitionist
pseudo prophecy
pseudo prophet
pseudo prophetess
pseudo prosperity
pseudo psychologist
pseudo psychology
pseudo purity
pseudo ray
pseudo realism
pseudo recognition
pseudo recollection
pseudo reconciliation
pseudo reform
pseudo reformation
pseudo reformatory
pseudo reformer
pseudo registration
pseudo relation
pseudo relationship
pseudo relative
pseudo religion
pseudo republic
pseudo residence
pseudo resident
pseudo resignation
pseudo reversal
pseudo rheumatism
pseudo romanticism
pseudo royal
pseudo royalty
pseudo sacrilege
pseudo saint
pseudo saintliness
pseudo sanctity
pseudo sanctuary
pseudo satire
pseudo satirist
pseudo scholar
pseudo scholarship
pseudo science
pseudo scientist
pseudo sensation
pseudo sense
pseudo sensibility
pseudo servility
pseudo servitor
pseudo servitude
pseudo signature
pseudo siphon
pseudo slavery
pseudo socialism
pseudo socialist
pseudo specialist
pseudo specialty
pseudo specter
pseudo spirit
pseudo spirituality
pseudo statement
pseudo stem
pseudo student
pseudo subtlety
pseudo suicide
pseudo symptom
pseudo temperance
pseudo theft
pseudo tribe
pseudo tribulation
pseudo tribute
pseudo university
pseudo virgin
pseudo witness
pseudo worship
pseudo zeal
pseudo-
pseudo-African
pseudo-American
pseudo-Argentinean
pseudo-Argentinian
pseudo-Aristotelian
pseudo-Aryan
pseudo-Assyrian
pseudo-Australian
pseudo-Austrian
pseudo-Babylonian
pseudo-Baptist
pseudo-Belgian
pseudo-Bohemian
pseudo-Bolivian
pseudo-Brahman
pseudo-Brazilian
pseudo-Buddhist
pseudo-Bulgarian
pseudo-Canadian
pseudo-Carthaginian
pseudo-Catholic
pseudo-Chilean
pseudo-Chinese
pseudo-Christian
pseudo-Ciceronian
pseudo-Dantesque
pseudo-Democratic
pseudo-Dutch
pseudo-East Indian
pseudo-Egyptian
pseudo-Elizabethan
pseudo-English
pseudo-Episcopalian
pseudo-European
pseudo-French
pseudo-Georgian
pseudo-German
pseudo-Germanic
pseudo-Gothic
pseudo-Grecian
pseudo-Greek
pseudo-Hindu
pseudo-Homeric
pseudo-Hungarian
pseudo-Incan
pseudo-Indian
pseudo-Iranian
pseudo-Irish
pseudo-Italian
pseudo-Japanese
pseudo-Mayan
pseudo-Messianic
pseudo-Methodist
pseudo-Mexican
pseudo-Milotic
pseudo-Mohammedan
pseudo-Mohammedanism
pseudo-Mongolian
pseudo-Moslem
pseudo-Muslem
pseudo-Muslim
pseudo-Norwegian
pseudo-Panamanian
pseudo-Persian
pseudo-Polish
pseudo-Presbyterian
pseudo-Republican
pseudo-Roman
pseudo-Russian
pseudo-Semitic
pseudo-Serbian
pseudo-Shakespearian
pseudo-Shakespearian
pseudo-Socratic
pseudo-Spanish
pseudo-Swedish
pseudo-Turkish
pseudo-Vergilian
pseudo-Victorian
pseudo-Virgilian
pseudo-carp
pseudo-catholic
pseudo-christ
pseudo-code
pseudo-hieroglyphic
pseudo-intransitive
pseudo-ionone
pseudo-isometric
pseudo-occidental
pseudo-orthorhombic
pseudo-osteomalacia
pseudo-papal
pseudo-uniseptate
pseudo-urate
pseudo-urea
pseudo-uric
pseudoaortic insufficiency
pseudologia phantastica
pseudometric space
pseudonymous literature
psi particle
psi-
psych out
psych-
psychasthenic reaction
psyche knot
psyched up
psychedelic drug
psychedelic show
psychiatric evaluation
psychiatric ward
psychic apparatus
psychic bid
psychic blindness
psychic determinism
psychic energizer
psychic energy
psychic epilepsy
psychic income
psychic monism
psychic phenomena
psychic research
psychical phenomena
psychical research
psychically blind
psycho-
psycho-asthenics
psycho-physic
psycho-physical
psycho-therapeutic
psychoactive drug
psychoactive drugs
psychoanalytic method
psychoanalytic theory
psychoanalytic therapy
psychogenic disease
psychological block
psychological complex
psychological conditioning
psychological counseling
psychological defenses
psychological dependence
psychological dictionary
psychological evaluation
psychological fixation
psychological hedonism
psychological logic
psychological medicine
psychological moment
psychological novel
psychological primary
psychological profile
psychological screening
psychological stress
psychological support
psychological surrogate
psychological symbol
psychological test
psychological time
psychological warfare
psychologically addictive
psychology of depths
psychomotor disturbance
psychomotor epilepsy
psychoneurotic disorder
psychopathia martialis
psychopathia sexualis
psychopathic case
psychopathic condition
psychopathic hospital
psychopathic personality
psychopathic ward
psychophysical parallelism
psychosexual disorder
psychosocial medicine
psychosomatic disease
psychosomatic medicine
psychosomatic symptom
psychotic personality
psychrometric chart
psyllium seed
pterid-
pterido-
ptero-
pteroic acid
pteroylglutamic acid
pteroylmonoglutaic acid
pterygo-
pterygoid bone
pterygoid process
ptilo-
ptolemaic system
ptomaine poisoning
pub crawler
pub-crawl
pubertal gland
puberty gland
pubic hair
public acclaim
public accountant
public act
public address
public administration
public assistance
public bar
public baths
public belief
public bill
public charge
public company
public consciousness
public convenience
public corporation
public crib
public debt
public defender
public dishonor
public domain
public enemy
public enterprise
public entertainer
public eye
public figure
public gallery
public health
public health doctor
public health medicine
public health nurse
public health physician
public hospital
public house
public image
public international law
public knowledge
public law
public lending right
public librarian
public-school
public-service corporation
public-spirited
public-spiritedly
public-spiritedness
public-utility
public-voiced
publicity agent
publicity law
publicity man
publicity manager
publicity story
publicity-proof
publish a manifesto
publish the banns
publisher's catalog
publisher's list
publishing house
publishing industry
pubo-
puce oxide
puck-carrier
pucker up
pudding bag
pudding boom
pudding club
pudding face
pudding grass
pudding sleeve
pudding spar
pudding stone
pudding time
pudding-faced
pudding-pie
pudding-pipe tree
pudding-shaped
puddle ball
puddle bar
puddle duck
puddle rolls
puddle wall
puddling furnace
pudendal ulcer
puerperal fever
puerperal psychosis
puff adder
puff and blow
puff box
puff like a grampus
puff of air
puff of smoke
puff of wind
puff paste
puff pastry
puff pipe
puff shark
puff sleeve
puff up
puff-adder
puff-ball
puff-bird
puff-fish
puff-leg
puff-paste
puff-puff
puffed rice
puffed up
puffed wheat
puffer pipe
puffing up
pug dog
pug head
pug knife
pug mill
pug moth
pug nose
pug piling
pug-faced
pug-nosed
pug-pile
puisne judge
puisne justice
puke-stocking
pukka sahib
pull a blooper
pull a bluff
pull a boner
pull a boo-boo
pull a face
pull a fast one
pull a fast one on
pull a gun on
pull a lone oar
pull a long face
pull a proof
pull about
pull about your ears
pull an oar
pull apart
pull around
pull at the heartstrings
pull at the leash
pull away
pull back
pull box
pull broach
pull by the sleeve
pull clear
pull date
pull different ways
pull down
pull fo
pull for
pull in
pull in pieces
pull in your horns
pull lamp holder
pull off
pull on
pull out
pull out all the stops
pull out of it
pull over
pull pin
pull punches
pull rank
pull ropes
pull round
pull station
pull strap
pull strings
pull switch
pull the forelock
pull the strings
pull the wires
pull the wool over your eyes
pull through
pull to pieces
pull together
pull towards
pull up
pull up by the roots
pull up short
pull up stakes
pull wires
pull you up short
pull your leg
pull your own weight
pull your rank
pull your teeth
pull your weight
pull your wits together
pull yourself together
pull-
pull-back
pull-down
pull-drive
pull-in
pull-in torque
pull-off
pull-on
pull-on sweater
pull-out
pull-out torque
pull-over
pull-through
pull-through torque
pull-up
pull-up chair
pullboat logging
puller-in
puller-out
pullet disease
pulley block
pulley chain
pulley frame
pulley lathe
pulley oiler
pulley stile
pulley tackle
pulley tap
pulley-shaped
pulling boat
pulling down
pulling out
pulling power
pulling together
pulling-out
pullorum disease
pullulate with
pully-haul
pulse-jet
pulse-jet engine
pulse-jet propulsion
pulse-modulated radar
pulse-time modulation
pulsejet engine
pulsion diverticulum
pulsus alternans
pulvering day
pulverizer harrow
pumice soap
pumice stone
pumice-stone
pump bilge
pump bob
pump box
pump brake
pump cylinder
pump doctor
pump drill
pump for information
pump full of lead
pump gun
pump handle
pump house
pump out
pump priming
pump rod
pump room
pump sole
pump spear
pump staff
pump up
pump well
pump-action
pump-back method
pump-handle
pump-handler
pump-priming
pump-room
pump-well
pumping engine
pumping plan
pumping-back method
pumpkin ash
pumpkin head
pumpkin pine
pumpkin seed
pumpkin tree
pumpkin-colored
pumpkin-headed
pumpkin-seed
pumpkin-seed oil
puna grass
punch barrel
punch bowl
punch card
punch cards
punch cattle
punch cutter
punch full of holes
punch holder
punch house
punch in
punch ladle
punch lifter
punch line
punch mark
punch mat
punch out
punch pliers
punch press
punch spoon
punch the clock
punch-and-judy show
punch-ball
punch-bowl
punch-card data
punch-drunk
punch-hole
punch-marked
punch-up
punched card
punched cards
punched tape
punching bag
punching machine
punching press
punctuation mark
punctuation marks
puncture vine
puncture voltage
puncture your balloon
pungent meadow grass
pungle up
punish yourself
punishment of Tantalus
punishment that fits the crime
punishment-proof
punitive damages
punitive sanction
punk kid
punk oak
punk rock
punk tree
punkah wallah
punner bar
punt formation
punt gun
punt shooter
punt shooting
punto reverso
pup tent
pupa shell
pupa-shaped
pupil hour
pupil load
pupil teacher
pupil teachery
pupil-teacherdom
pupil-teachership
puppet government
puppet play
puppet player
puppet regime
puppet show
puppet valve
puppet-play
puppet-show
puppet-valve
puppy drum
puppy fat
puppy love
puppy-dog
pur sang
pur-
purchase book
purchase journal
purchase ledger
purchase money
purchase money bond
purchase record
purchase shears
purchase tax
purchase-money
purchasing agent
purchasing power
purchasing public
pure and simple
pure chemistry
pure color
pure culture
pure cussedness
pure democracy
pure form
pure imaginary
pure imaginary number
pure in heart
pure line
pure mathematics
pure mechanics
pure science
pure white
pure-blooded
pure-bosomed
pure-dye
pure-eyed
pure-food law
pure-heartedness
pure-minded
purebred horse
pureness of heart
purgatory hammer
purge away
purge yourself
purging nut
purification flower
purified cotton
purine base
purity rubric
purl stitch
purlieu-man
purlin plate
puro-
purple and fine linen
purple beard grass
purple bent
purple boneset
purple cestrum
purple chokeberry
purple color
purple daisy
purple finch
purple fish
purple fishery
purple foxglove
purple gallinule
purple heart
purple heron
purple lake
purple loosestrife
purple martin
purple medic
purple melick grass
purple mombin
purple mullein
purple oat
purple of Cassius
purple pall
purple passage
purple passages
purple patch
purple patches
purple rock cress
purple sage
purple sandpiper
purple shore crab
purple trillium
purple willow herb
purple wood grass
purple wood sorrel
purple wreath
purple-awned
purple-awned oat grass
purple-backed
purple-beaming
purple-berried
purple-black
purple-blue
purple-brown
purple-clad
purple-coated
purple-colored
purple-crimson
purple-dawning
purple-dyeing
purple-eyed
purple-faced
purple-flowered
purple-fringed
purple-fringed orchid
purple-glowing
purple-green
purple-headed
purple-hued
purple-leaved
purple-nosed
purple-red
purple-robed
purple-rose
purple-skirted
purple-spiked
purple-spotted
purple-staining
purple-stemmed
purple-streaked
purple-streaming
purple-tailed
purple-tipped
purple-top
purple-topped
purple-veined
purple-vested
purple-yellow
purpose clause
purpose of
purpose to yourself
purpose-built
purpura hemorrhagica
purpureo-
purre maw
purse atomizer
purse bearer
purse boat
purse crab
purse cutter
purse cutting
purse isinglass
purse line
purse maker
purse net
purse pride
purse race
purse ring
purse rope
purse seine
purse seiner
purse silk
purse snatcher
purse snatching
purse spider
purse string
purse strings
purse weight
purse-bearer
purse-eyed
purse-lined
purse-lipped
purse-mad
purse-pinched
purse-pride
purse-proud
purse-shaped
purse-snatching
purse-string
purse-string suture
purse-swollen
pus basin
pus cell
pus pan
push about
push along
push around
push aside
push back
push bicycle
push bolt
push broach
push broom
push button
push car
push cycle
push down
push drill
push fit
push forward
push from your thoughts
push hoe
push in
push moraine
push off
push on
push onward
push out
push out of place
push shot
push the panic button
push the pen
push the pencil
push through
push to one side
push to the wall
push up daisies
push upon
push your luck
push your way
push-
push-bike
push-button
push-button control
push-button plant
push-button telephone
push-button warfare
push-down
push-off
push-out chuck
push-pin
push-pull
push-pull microphone
push-start
push-up
pusher airplane
pusher grade
pusher plane
pusher propeller
pushing down
pushing under
pushing up daisies
puss clover
puss in the corner
puss moth
puss-cat
puss-moth
pussle-gutted
pussy clover
pussy wants a corner
pussy willow
pussy's toe
pussy's toes
pussy-foot
pustula maligna
put a bold face on
put a bold face upon
put a bridle on your tongue
put a bug in your ear
put a construction on
put a crimp in
put a curse on
put a duty on
put a false appearance upon
put a false construction on
put a false construction upon
put a figure on
put a flea in your ear
put a gloss upon
put a good face upon
put a half nelson on
put a hex on
put a juju on
put a mark on
put a penalty on
put a period to
put a question to
put a spoke in your wheel
put a spoke in your wheels
put a stop to
put a tuck in your tail
put about
put across
put all your eggs in one basket
put all your strength into
put an embargo on
put an end to
put an end to yourself
put and call
put apart
put aside
put asunder
put at a disadvantage
put at ease
put at your disposal
put away
put away for
put away thought
put back
put beef into it
put before
put behind one
put between
put beyond the pale
put by
put down
put down to
put faith in
put for
put forth
put forth buds
put forth leaves
put forth your strength
put forward
put heads together
put hep
put hip
put in
put in a call
put in a false light
put in a good word for
put in a hole
put in a new light
put in a nutshell
put in a spot
put in a trance
put in a word
put in a word for
put in an appearance
put in an order
put in an order for
put in black and white
put in bodily fear
put in commission
put in condition
put in danger
put in fear
put in for
put in force
put in good humor
put in hock
put in irons
put in jeopardy
put in mind
put in mothballs
put in motion
put in operation
put in opposition
put in order
put in pawn
put in phase
put in place
put in plain English
put in plain words
put in practice
put in proper fore-and-aft trim
put in remembrance
put in repair
put in requisition
put in shape
put in suit
put in the bag
put in the foreground
put in the minutes
put in the place of
put in the right
put in time
put in trim
put in tune
put in words
put in words of one syllable
put in working order
put in writing
put in your bad books
put in your black books
put in your head
put in your oar
put in your two cents
put in your two cents worth
put into
put into a flutter
put into a gas
put into effect
put into execution
put into port
put into practice
put into requisition
put into shape
put into the hands of
put into the picture
put into your head
put it
put it all behind one
put it all behind you
put it away
put it in few words
put it out of your thoughts
put it to
put it up to
put life into
put money in
put new life into
put next to
put obeah on
put off
put off mortality
put off the track
put on
put on a bold face
put on a burst of speed
put on a business basis
put on a business footing
put on a drive for
put on a false front
put on a false scent
put on a front
put on a harbor furl
put on a high
put on a pedestal
put on a show
put on airs
put on an act
put on an allowance
put on an even keel
put on blinders
put on edge
put on ice
put on immortality
put on long pants
put on long trousers
put on more sail
put on more speed
put on mourning
put on paper
put on parole
put on report
put on sail
put on side
put on steam
put on tape
put on the Index
put on the acid
put on the agenda
put on the air
put on the alert
put on the back burner
put on the block
put on the brakes
put on the dog
put on the drag
put on the feed bag
put on the gloves with
put on the grill
put on the map
put on the market
put on the new man
put on the rack
put on the record
put on the retired list
put on the right track
put on the ritz
put on the scales
put on the shelf
put on the soft pedal
put on the spot
put on the stage
put on the stand
put on the style
put on the track
put on to
put on to something hot
put on trial
put on weight
put on your considering cap
put on your feet
put on your guard
put on your thinking cap
put one on
put one on guard
put one's heart in one's mouth
put option
put out
put out a feeler
put out at interest
put out bag and baggage
put out buds
put out leaves
put out of action
put out of breath
put out of business
put out of commission
put out of countenance
put out of court
put out of existence
put out of face
put out of gear
put out of joint
put out of mind
put out of order
put out of place
put out of reach
put out of sight
put out of the way
put out of your head
put out of your mind
put out of your misery
put out of your thoughts
put out the welcome mat
put out to grass
put out to pasture
put out to sea
put over
put over against
put paid to
put pep into it
put pressure on
put price
put queries
put right
put six feet under
put somebody in his or her place
put someone on
put something across
put something aside
put something in the pot
put something over
put stock in
put straight
put teeth in
put the bee on
put the best color on
put the best face upon
put the bite on
put the blame on
put the cart before the horse
put the damper on
put the evil eye on
put the fear of God into
put the finger on
put the finisher on
put the finishing strokes on
put the finishing touches on
put the helm hard over
put the helm to leeward
put the helm up
put the jinx on
put the kibosh on
put the lid on
put the lid on it
put the pressure on
put the right foot forward
put the rudder amidships
put the rudder hard left
put the rudder hard over
put the rudder hard right
put the screw on
put the screw to
put the screws on
put the screws to
put the settler on
put the shot
put the skids to
put the skids under
put the touch on
put the worst face upon
put through
put through a deal
put through channels
put through the grind
put through the mill
put through the third degree
put to
put to advantage
put to bed
put to choice
put to death
put to flight
put to inconvenience
put to it
put to music
put to one side
put to press
put to rights
put to rout
put to school
put to sea
put to shame
put to silence
put to sleep
put to the blush
put to the proof
put to the question
put to the rack
put to the sword
put to the test
put to torture
put to trial
put to trouble
put to use
put to vote
put to your last shifts
put to your oath
put to your shifts
put to your wit's end
put together
put trust in
put two and two together
put under
put under a spell
put under an injunction
put under an interdict
put under an interdiction
put under an obligation
put under arrest
put under lock and key
put under oath
put under restraint
put under surveillance
put under the ban
put under the yoke
put up
put up a bluff
put up a bold front
put up a false front
put up a fight
put up a front
put up a howl
put up a job
put up a squawk
put up a struggle
put up an argument
put up as collateral
put up at
put up for auction
put up for sale
put up no barriers
put up the money
put up the shutters
put up the spout
put up to
put up with
put up with it
put up your hair
put upon
put upon oath
put upon record
put upon your mettle
put violently
put way upon
put with
put words in your mouth
put you in mind of
put you in the picture
put you in your place
put you on cloud nine
put you on top of the world
put you out
put you out of your misery
put you through your paces
put your Irish up
put your John Hancock on
put your arms around
put your back into
put your back into it
put your back to
put your back to the wall
put your back up
put your best foot forward
put your bristles up
put your cards on the table
put your cross on
put your dander up
put your eyes out
put your finger on
put your foot down
put your foot down on
put your foot in it
put your foot in your mouth
put your fur up
put your good name in jeopardy
put your hair up
put your hand to
put your hand to the plow
put your hands in your pockets
put your hands on
put your head in a lion's mouth
put your heart into
put your life on the line
put your mark on
put your mind at rest on
put your mind to
put your money on the line
put your monkey up
put your nose out of joint
put your pride in your pocket
put your shoulder to the wheel
put your teeth on edge
put your trust in
put your trust in God
put your two cents in
put your veto upon
put your weight in the scale
put your whole soul in
put yourself between disputants
put yourself down
put yourself down for
put yourself forward
put yourself in a spot
put yourself in another's shoes
put yourself in the hands of
put yourself out
put yourself out of court
put yourself out of the way
put yourself outside of
put yourself upon the
put zip into it
put-and-take
put-down
put-off
put-on
put-out
put-put
put-putter
put-up
put-up job
put-up market
put-upon
putative marriage
putrid matter
putt-putt
putter-forth
putter-in
putter-off
putter-on
putter-out
putter-through
putter-up
putting away
putting cleek
putting down
putting green
putting in
putting in order
putting on
putting on airs
putting out
putting out the eyes
putting stone
putting the best color on
putting together
putting two and two together
putting yourself between
putting-off
putting-stone
putty coat
putty eye
putty gloss
putty in your hands
putty knife
putty powder
putty-colored
putty-faced
putty-jointed
putty-looking
putty-powdered
putty-stopped
puzzle box
puzzle canon
puzzle lock
puzzle out
puzzle over
puzzle-brain
puzzle-cap
puzzle-headed
puzzle-monkey
puzzle-wit
puzzling problem
py-
pycno-
pye-dog
pygmy glider
pygmy weasel
pygmy-minded
pygo-
pyloro-
pyo-
pyogenic infection
pyorrhea alveolaris
pyorrhoea alveolaris
pyr-
pyramid flower
pyramid plant
pyramid selling
pyramid shell
pyramid-shaped
pyramidal number
pyramidal peak
pyramidal roof
pyramidal tent
pyrethrin I
pyrethrin II
pyrethrum yellow
pyreto-
pyrimidine base
pyrite type
pyrite yellow
pyrito-
pyritohedral group
pyro-
pyro-acid
pyrogallic acid
pyrogallol monoacetate
pyroligneous acid
pyroligneous alcohol
pyroligneous spirit
pyrometer cone
pyrometric bead
pyrometric cone
pyromucic aldehyde
pyrophosphoric acid
pyroracemic acid
pyrosulfuric acid
pyrosulphuric acid
pyrotechnic sponge
pyroxene group
pyroxylin plastic
pyrrhic victory
pyrrole red
pyrruvic acid
pyruvic acid
pyruvic aldehyde
pyx chest
pyx cloth
pyx veil
pyx-jury
q fever
q v
q-boat
qua-bird
quack doctor
quack grass
quack remedy
quack-quack
quad crown
quad demy
quad large
quad line
quad royal
quad small
quadrand compass
quadrand electrometer
quadrand plate
quadraphonic sound system
quadrate cross
quadratic equation
quadratic form
quadratic formula
quadratic residue
quadrat-quadration component
quadration of the circle
quadrennial circus
quadri-quadri-invariant
quadric surface
quadrilateral spinnaker
quadrille ruling
quadrumen merum
quadru-quadrangle counterpoint
quadruple fugue
quadruple time
quadruple-expansion
quadruplex telegraphy
quaff the bitter cup
quai d' orsay
quail brush
quail call
quail dove
quail hawk
quail pipe
quail snipe
quail-brush
quaint-costumed
quaint-eyed
quaint-felt
quaint-looking
quaint-notioned
quaint-shaped
quaint-spoken
quaint-stomached
quaint-witty
quaint-worded
quake grass
quake in your boots
quake in your shoes
quake like an aspen leaf
quake ooze
quaker gun
quaker meeting
quaker moth
quaker-colored
quaker-ladies
quaking aspen
quaking grass
quaking-grass
qualified negative
qualified veto
qualifying examination
qualitative analysis
quality binding
quality control
quality curve
quality factor
quality loop
quality stock
quality-control inspector
qualm of conscience
qualm-sick
quam libet
quandong nut
quantitative analysis
quantitative inheritance
quantitative meter
quantity control
quantity mark
quantity production
quantity surveying
quantity surveyor
quantity theorist
quantity theory
quantity theory of money
quantum chromodynamics
quantum electronics
quantum field theory
quantum liquid
quantum mechanics
quantum number
quantum optics
quantum statistics
quantum sufficit
quantum theory
quantum-mechanical
quarantine anchorage
quarantine flag
quarantine period
quare impedit
quarrel over
quarry bed
quarry face
quarry light
quarry miner
quarry out
quarry tile
quarry-faced
quarry-rid
quarrystone bond
quart major
quart minor
quart pot
quart-pot
quartal harmony
quarter ait
quarter at
quarter badge
quarter bar
quarter belt
quarter bend
quarter berth
quarter bill
quarter binding
quarter blanket
quarter block
quarter board
quarter boards
quarter boot
quarter box
quarter butt
quarter cask
quarter crack
quarter day
quarter deck
quarter dollar
quarter eagle
quarter evil
quarter face
quarter fast
quarter gallery
quarter galley
quarter grain
quarter hollow
quarter horse
quarter hour
quarter ill
quarter iron
quarter ladder
quarter lift
quarter light
quarter line
quarter miler
quarter nelson
quarter note
quarter of a century
quarter of a hundred
quarter pillar
quarter pitch
quarter plate
quarter point
quarter points
quarter rail
quarter rest
quarter round
quarter rudder
quarter screw
quarter section
quarter semitone
quarter sessions
quarter step
quarter stock
quarter tie
quarter tone
quarter watch
quarter-bound
quarter-breed
quarter-cast
quarter-cleft
quarter-cut
quarter-day
quarter-deck
quarter-decker
quarter-dollar
quarter-faced
quarter-final
quarter-finalist
quarter-foot
quarter-gallery
quarter-hollow
quarter-hoop
quarter-horse race
quarter-hour
quarter-inch
quarter-left
quarter-mile
quarter-miler
quarter-minute
quarter-month
quarter-moon
quarter-phase
quarter-pierced
quarter-pint
quarter-pound
quarter-right
quarter-run
quarter-second
quarter-sessions
quarter-sheet
quarter-size
quarter-turn stair
quarter-vine
quarter-wave
quarter-witted
quarter-yard
quasi agreement
quasi alarm
quasi alliance
quasi alumnus
quasi amateur
quasi amendment
quasi amusement
quasi angel
quasi animal
quasi answer
quasi apology
quasi appeal
quasi application
quasi appointment
quasi appreciation
quasi approval
quasi architect
quasi argument
quasi aristocracy
quasi aristocrat
quasi army
quasi arrangement
quasi art
quasi artist
quasi aspiration
quasi asset
quasi assignment
quasi assistance
quasi assurance
quasi asylum
quasi athlete
quasi attachment
quasi attack
quasi attainment
quasi attempt
quasi attendant
quasi attention
quasi attorney
quasi auditor
quasi author
quasi authority
quasi baby
quasi ballot
quasi bank
quasi banker
quasi bankruptcy
quasi banquet
quasi baptism
quasi disappeance
quasi disaster
quasi discipline
quasi discovery
quasi discrimination
quasi disgrace
quasi disgust
quasi dismissal
quasi distress
quasi distribution
quasi diversion
quasi division
quasi dominion
quasi donation
quasi doubt
quasi drama
quasi earnings
quasi easement
quasi economy
quasi education
quasi election
quasi emperor
quasi emphasis
quasi employment
quasi endorsement
quasi enemy
quasi enforcement
quasi engagement
quasi enrollment
quasi entertainment
quasi enthusiasm
quasi envy
quasi error
quasi escape
quasi estimation
quasi evidence
quasi exchange
quasi exclusion
quasi excuse
quasi executive
quasi exertion
quasi exile
quasi expectation
quasi expenditure
quasi expense
quasi experience
quasi expert
quasi explanation
quasi incentive
quasi inclination
quasi increase
quasi indifference
quasi inducement
quasi indulgence
quasi inference
quasi inheritance
quasi initiation
quasi injury
quasi injustice
quasi innocence
quasi inquiry
quasi insight
quasi inspection
quasi inspiration
quasi installation
quasi institution
quasi instruction
quasi insult
quasi integrity
quasi intention
quasi interest
quasi interference
quasi interview
quasi introduction
quasi invasion
quasi investigation
quasi invitation
quasi invoice
quasi judge
quasi judgment
quasi justice
quasi justification
quasi kindred
quasi king
quasi knowledge
quasi labor
quasi lady
quasi lament
quasi league
quasi legacy
quasi legality
quasi legislation
quasi liability
quasi liberty
quasi limit
quasi literature
quasi loan
quasi lord
quasi loss
quasi luxury
quasi magic
quasi maintenance
quasi majority
quasi management
quasi manager
quasi market
quasi masterpiece
quasi maximum
quasi melancholy
quasi member
quasi memory
quasi mercy
quasi merit
quasi message
quasi method
quasi millionaire
quasi minimum
quasi minister
quasi miracle
quasi misery
quasi mishap
quasi missionary
quasi monopoly
quasi mystery
quasi navy
quasi need
quasi neglect
quasi negligence
quasi neighbor
quasi neutrality
quasi news
quasi nobleman
quasi nomination
quasi notice
quasi novel
quasi obedience
quasi objection
quasi objective
quasi obligation
quasi observance
quasi observation
quasi obstacle
quasi occupation
quasi offense
quasi offer
quasi official
quasi omission
quasi opponent
quasi opposition
quasi optimist
quasi orator
quasi outrage
quasi owner
quasi ownership
quasi painter
quasi panic
quasi paradise
quasi pardon
quasi participation
quasi partisan
quasi partner
quasi patron
quasi payment
quasi penalty
quasi perfection
quasi person
quasi perusal
quasi philosopher
quasi pity
quasi plea
quasi pleasure
quasi pledge
quasi plenty
quasi poem
quasi policy
quasi politician
quasi possession
quasi poverty
quasi power
quasi praise
quasi preference
quasi prejudice
quasi preparation
quasi prepositional
quasi pressure
quasi prestige
quasi prevention
quasi principal
quasi principle
quasi prisoner
quasi privilege
quasi problem
quasi product
quasi profit
quasi progress
quasi prohibition
quasi promise
quasi prophecy
quasi proposal
quasi prosecution
quasi prosperity
quasi protection
quasi provocation
quasi punishment
quasi pupil
quasi purchase
quasi purity
quasi pursuit
quasi qualification
quasi quarantining
quasi quarrel
quasi quotation
quasi reality
quasi realization
quasi reason
quasi rebellion
quasi receipt
quasi recognition
quasi recollection
quasi reconciliation
quasi record
quasi recreation
quasi reduction
quasi reference
quasi refinement
quasi reform
quasi refusal
quasi registration
quasi rejection
quasi relief
quasi religion
quasi remedy
quasi reminder
quasi remittance
quasi remorse
quasi renewal
quasi rent
quasi repair
quasi replacement
quasi wager
quasi war
quasi warrant
quasi weakling
quasi wealth
quasi whisper
quasi wisdom
quasi witness
quasi wonder
quasi worship
quasi zeal
quasi-
quasi-American
quasi-Americanized
quasi-English
quasi-French
quasi-German
quasi-Grecian
quasi-Greek
quasi-Jacobean
quasi-Japanese
quasi-Latin
quasi-Spanish
quasi-absolute
quasi-absolutely
quasi-academic
quasi-academically
quasi-acceptance
quasi-accepted
quasi-accidental
quasi-accidentally
quasi-acquainted
quasi-active
quasi-actively
quasi-adequate
quasi-adequately
quasi-adjusted
quasi-admire
quasi-admired
quasi-admiring
quasi-adopt
quasi-adopted
quasi-adult
quasi-advantageous
quasi-advantageously
quasi-affectionate
quasi-affectionately
quasi-affirmative
quasi-affirmatively
quasi-alternating
quasi-alternatingly
quasi-alternative
quasi-alternatively
quasi-amateurish
quasi-amateurishly
quasi-amiable
quasi-amiably
quasi-amusing
quasi-amusingly
quasi-ancient
quasi-anciently
quasi-angelic
quasi-angelically
quasi-antique
quasi-anxious
quasi-anxiously
quasi-apologetic
quasi-apologetically
quasi-appealing
quasi-appealingly
quasi-appointed
quasi-appropriate
quasi-appropriately
quasi-artistic
quasi-artistically
quasi-aside
quasi-asleep
quasi-athletic
quasi-athletically
quasi-attempt
quasi-audible
quasi-audibly
quasi-authentic
quasi-authentically
quasi-authorized
quasi-automatic
quasi-automatically
quasi-awful
quasi-awfully
quasi-bad
quasi-bankrupt
quasi-basic
quasi-basically
quasi-beneficial
quasi-beneficially
quasi-benevolent
quasi-benevolently
quasi-biographical
quasi-biographically
quasi-blind
quasi-blindly
quasi-brave
quasi-bravely
quasi-brilliant
quasi-brilliantly
quasi-bronze
quasi-brotherly
quasi-calm
quasi-calmly
quasi-candid
quasi-candidly
quasi-capable
quasi-capably
quasi-careful
quasi-carefully
quasi-characteristic
quasi-characteristically
quasi-charitable
quasi-charitably
quasi-cheerful
quasi-cheerfully
quasi-civil
quasi-civilly
quasi-classic
quasi-classically
quasi-clerical
quasi-clerically
quasi-collegiate
quasi-colloquial
quasi-colloquially
quasi-comfortable
quasi-comfortably
quasi-comic
quasi-comical
quasi-comically
quasi-commanding
quasi-commandingly
quasi-commercial
quasi-commercialized
quasi-commercially
quasi-common
quasi-commonly
quasi-compact
quasi-compactly
quasi-constructively
quasi-consuming
quasi-content
quasi-contented
quasi-contentedly
quasi-continual
quasi-continually
quasi-continuous
quasi-continuously
quasi-contolled
quasi-contract
quasi-contrarily
quasi-contrary
quasi-contrasted
quasi-controlling
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quasi-conveniently
quasi-conventional
quasi-conventionally
quasi-converted
quasi-conveyed
quasi-convinced
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quasi-cordially
quasi-correct
quasi-correctly
quasi-courteous
quasi-courteously
quasi-craftily
quasi-crafty
quasi-criminal
quasi-criminally
quasi-critical
quasi-critically
quasi-cultivated
quasi-cunning
quasi-cunningly
quasi-cynical
quasi-cynically
quasi-damaged
quasi-dangerous
quasi-dangerously
quasi-daring
quasi-daringly
quasi-deaf
quasi-deafening
quasi-deafly
quasi-decorated
quasi-defeated
quasi-defiant
quasi-defiantly
quasi-definite
quasi-definitely
quasi-deify
quasi-dejected
quasi-dejectedly
quasi-deliberate
quasi-deliberately
quasi-delicate
quasi-delicately
quasi-delighted
quasi-delightedly
quasi-demanding
quasi-demandingly
quasi-democratic
quasi-democratically
quasi-dependence
quasi-dependent
quasi-dependently
quasi-depressed
quasi-desolate
quasi-desolately
quasi-desperate
quasi-desperately
quasi-despondent
quasi-despondently
quasi-determine
quasi-devoted
quasi-devotedly
quasi-difficult
quasi-difficultly
quasi-dignified
quasi-dignifying
quasi-diplomatic
quasi-diplomatically
quasi-disadvantageous
quasi-disadvantageously
quasi-disastrous
quasi-disastrously
quasi-discreet
quasi-discreetly
quasi-discriminating
quasi-discriminatingly
quasi-disgraced
quasi-disgusted
quasi-disgustedly
quasi-distant
quasi-distantly
quasi-distressed
quasi-diverse
quasi-diversely
quasi-diversified
quasi-divided
quasi-dividedly
quasi-double
quasi-doubly
quasi-doubtful
quasi-doubtfully
quasi-dramatic
quasi-dramatically
quasi-dreadful
quasi-dreadfully
quasi-dumb
quasi-dumbly
quasi-duplicate
quasi-dutiful
quasi-dutifully
quasi-dying
quasi-eager
quasi-eagerly
quasi-economic
quasi-economical
quasi-economically
quasi-educated
quasi-educational
quasi-educationally
quasi-effective
quasi-effectively
quasi-efficient
quasi-efficiently
quasi-elaborate
quasi-elaborately
quasi-elementary
quasi-eligible
quasi-eligibly
quasi-eloquent
quasi-eloquently
quasi-eminent
quasi-eminently
quasi-emotional
quasi-emotionally
quasi-empty
quasi-endless
quasi-endlessly
quasi-energetic
quasi-energetically
quasi-enforced
quasi-engaging
quasi-engagingly
quasi-entertaining
quasi-enthused
quasi-enthusiastic
quasi-enthusiastically
quasi-envious
quasi-enviably
quasi-episcopal
quasi-episcopally
quasi-equal
quasi-equally
quasi-equitable
quasi-equitably
quasi-equivalent
quasi-equivalently
quasi-erotic
quasi-erotically
quasi-essential
quasi-essentially
quasi-established
quasi-eternal
quasi-eternally
quasi-ethical
quasi-everlasting
quasi-everlastingly
quasi-evil
quasi-evilly
quasi-exact
quasi-exactly
quasi-exceptional
quasi-exceptionally
quasi-excessive
quasi-excessively
quasi-exempt
quasi-exiled
quasi-existent
quasi-expectant
quasi-expectantly
quasi-expedient
quasi-expeditiously
quasi-expensive
quasi-expensively
quasi-experienced
quasi-experimental
quasi-foolish
quasi-foolishly
quasi-forced
quasi-foreign
quasi-forgetful
quasi-forgetfully
quasi-forgotten
quasi-formal
quasi-formally
quasi-formidable
quasi-formidably
quasi-fortunate
quasi-fortunately
quasi-frank
quasi-frankly
quasi-fraternal
quasi-fraternally
quasi-free
quasi-freely
quasi-fulfilling
quasi-full
quasi-fully
quasi-gallant
quasi-gallantly
quasi-gaseous
quasi-gay
quasi-generous
quasi-generously
quasi-genteel
quasi-genteelly
quasi-gentlemanly
quasi-genuine
quasi-genuinely
quasi-glad
quasi-gladly
quasi-glorious
quasi-gloriously
quasi-good
quasi-gracious
quasi-graciously
quasi-grateful
quasi-gratefully
quasi-grave
quasi-gravely
quasi-great
quasi-greatly
quasi-guaranteed
quasi-guiltily
quasi-guilty
quasi-habitual
quasi-habitually
quasi-happy
quasi-harmful
quasi-harmfully
quasi-healthful
quasi-healthfully
quasi-heartily
quasi-hearty
quasi-helpful
quasi-helpfully
quasi-hereditary
quasi-heroic
quasi-heroically
quasi-historic
quasi-historical
quasi-historically
quasi-honest
quasi-honestly
quasi-honorable
quasi-honorably
quasi-human
quasi-humanistic
quasi-humanly
quasi-humble
quasi-humbly
quasi-humorous
quasi-humorously
quasi-ideal
quasi-idealistic
quasi-idealistically
quasi-ideally
quasi-identical
quasi-identically
quasi-ignorant
quasi-ignorantly
quasi-immediate
quasi-immediately
quasi-immortal
quasi-immortally
quasi-impartial
quasi-impartially
quasi-important
quasi-importantly
quasi-improved
quasi-inclined
quasi-inclusive
quasi-inclusively
quasi-increased
quasi-independent
quasi-independently
quasi-indifferent
quasi-indifferently
quasi-induced
quasi-indulged
quasi-industrial
quasi-industrially
quasi-inevitable
quasi-inevitably
quasi-inferior
quasi-inferred
quasi-infinite
quasi-infinity
quasi-influential
quasi-influentially
quasi-informal
quasi-informally
quasi-informed
quasi-inherited
quasi-initiated
quasi-injured
quasi-injurious
quasi-injurlously
quasi-innocent
quasi-innocently
quasi-innumerable
quasi-innumerably
quasi-insistent
quasi-insistently
quasi-inspected
quasi-inspirational
quasi-installed
quasi-instructed
quasi-insulted
quasi-intellectual
quasi-intellectually
quasi-intelligent
quasi-intelligently
quasi-intended
quasi-interested
quasi-interestedly
quasi-internal
quasi-internalized
quasi-internally
quasi-international
quasi-internationalistic
quasi-internationally
quasi-interviewed
quasi-intimate
quasi-intimated
quasi-intimately
quasi-intolerable
quasi-intolerably
quasi-intolerant
quasi-intolerantly
quasi-introduced
quasi-intuitive
quasi-intuitively
quasi-invaded
quasi-investigated
quasi-invisible
quasi-invisibly
quasi-invited
quasi-irregular
quasi-irregularly
quasi-jocose
quasi-jocosely
quasi-jocund
quasi-jocundly
quasi-jointly
quasi-judicial
quasi-kind
quasi-kindly
quasi-knowledgeable
quasi-knowledgeably
quasi-laborious
quasi-laboriously
quasi-lamented
quasi-lawful
quasi-lawfully
quasi-legal
quasi-legally
quasi-legendary
quasi-legislated
quasi-legislative
quasi-legislatively
quasi-legitimate
quasi-legitimately
quasi-liberal
quasi-liberally
quasi-literary
quasi-living
quasi-logical
quasi-organically
quasi-oriental
quasi-orientally
quasi-original
quasi-originally
quasi-partisan
quasi-passive
quasi-passively
quasi-pathetic
quasi-pathetically
quasi-patient
quasi-patiently
quasi-patriarchal
quasi-patriotic
quasi-patriotically
quasi-patronizing
quasi-patronizingly
quasi-peaceful
quasi-peacefully
quasi-perfect
quasi-perfectly
quasi-periodic
quasi-periodically
quasi-permanent
quasi-permanently
quasi-perpetual
quasi-perpetually
quasi-personable
quasi-personably
quasi-personal
quasi-personally
quasi-perusable
quasi-philosophical
quasi-philosophically
quasi-physical
quasi-physically
quasi-pious
quasi-piously
quasi-plausible
quasi-pleasurable
quasi-pleasurably
quasi-pledge
quasi-pledged
quasi-pledging
quasi-plentiful
quasi-plentifully
quasi-poetic
quasi-poetical
quasi-poetically
quasi-politic
quasi-political
quasi-politically
quasi-poor
quasi-poorly
quasi-popular
quasi-popularly
quasi-positive
quasi-positively
quasi-powerful
quasi-powerfully
quasi-practical
quasi-practically
quasi-precedent
quasi-preferential
quasi-preferentially
quasi-prejudiced
quasi-prepositional
quasi-prepositionally
quasi-prevented
quasi-private
quasi-privately
quasi-privileged
quasi-probable
quasi-probably
quasi-problematic
quasi-productive
quasi-productively
quasi-progressive
quasi-progressively
quasi-promised
quasi-prompt
quasi-promptly
quasi-proof
quasi-prophetic
quasi-prophetical
quasi-prophetically
quasi-prosecuted
quasi-prosperous
quasi-prosperously
quasi-protected
quasi-proud
quasi-proudly
quasi-provincial
quasi-provincially
quasi-provocative
quasi-provocatively
quasi-public
quasi-publicly
quasi-punished
quasi-pupillary
quasi-purchased
quasi-qualified
quasi-radical
quasi-radically
quasi-rational
quasi-rationally
quasi-realistic
quasi-realistically
quasi-reasonable
quasi-reasonably
quasi-rebellious
quasi-rebelliously
quasi-recent
quasi-recently
quasi-recognized
quasi-reconciled
quasi-reduced
quasi-refined
quasi-reformed
quasi-refused
quasi-registered
quasi-regular
quasi-regularly
quasi-regulated
quasi-rejected
quasi-reliable
quasi-reliably
quasi-relieved
quasi-religious
quasi-religiously
quasi-remarkable
quasi-remarkably
quasi-renewed
quasi-repaired
quasi-replaced
quasi-reported
quasi-represented
quasi-republican
quasi-required
quasi-rescued
quasi-residential
quasi-residentially
quasi-resisted
quasi-respectable
quasi-respectably
quasi-respected
quasi-respectful
quasi-respectfully
quasi-responsible
quasi-responsibly
quasi-responsive
quasi-responsively
quasi-restored
quasi-retired
quasi-revolutionized
quasi-rewarding
quasi-ridiculous
quasi-ridiculously
quasi-righteous
quasi-righteously
quasi-romantic
quasi-romantically
quasi-royal
quasi-royally
quasi-rural
quasi-rurally
quasi-sad
quasi-sadly
quasi-safe
quasi-safely
quasi-sagacious
quasi-sagaciously
quasi-saintly
quasi-sanctioned
quasi-sanguine
quasi-sanguinely
quasi-sarcastic
quasi-sarcastically
quasi-satirical
quasi-satirically
quasi-satisfied
quasi-savage
quasi-savagely
quasi-scholarly
quasi-scholastic
quasi-scholastically
quasi-scientific
quasi-scientifically
quasi-secret
quasi-secretive
quasi-secretively
quasi-secretly
quasi-secure
quasi-securely
quasi-sentimental
quasi-sentimentally
quasi-serious
quasi-seriously
quasi-settled
quasi-similar
quasi-similarly
quasi-sincere
quasi-sincerely
quasi-single
quasi-singly
quasi-skillful
quasi-skillfully
quasi-slanderous
quasi-slanderously
quasi-sober
quasi-soberly
quasi-socialistic
quasi-socialistically
quasi-sovereign
quasi-spatial
quasi-spatially
quasi-spherical
quasi-spherically
quasi-spirited
quasi-spiritedly
quasi-spiritual
quasi-spiritually
quasi-standardized
quasi-stationary
quasi-stellar object
quasi-stellar radio source
quasi-strenuous
quasi-strenuously
quasi-studious
quasi-studiously
quasi-stylish
quasi-stylishly
quasi-subjective
quasi-subjectively
quasi-submissive
quasi-submissively
quasi-successful
quasi-successfully
quasi-sufficient
quasi-sufficiently
quasi-superficial
quasi-superficially
quasi-superior
quasi-supervised
quasi-supported
quasi-suppressed
quasi-sympathetic
quasi-sympathetically
quasi-systematic
quasi-systematically
quasi-systematized
quasi-tangent
quasi-tangible
quasi-tangibly
quasi-technical
quasi-technically
quasi-temporal
quasi-temporally
quasi-territorial
quasi-territorially
quasi-testamentary
quasi-theatrical
quasi-theatrically
quasi-thorough
quasi-thoroughly
quasi-tolerant
quasi-tolerantly
quasi-total
quasi-totally
quasi-traditional
quasi-traditionally
quasi-tragic
quasi-tragically
quasi-tribal
quasi-tribally
quasi-truthful
quasi-truthfully
quasi-typical
quasi-typically
quasi-tyrannical
quasi-tyrannically
quasi-ultimate
quasi-unanimous
quasi-unanimously
quasi-unconscious
quasi-unconsciously
quasi-unified
quasi-universal
quasi-universally
quasi-uplift
quasi-utilized
quasi-valid
quasi-validly
quasi-valued
quasi-venerable
quasi-venerably
quasi-victorious
quasi-victoriously
quasi-violated
quasi-violent
quasi-violently
quasi-virtuous
quasi-virtuously
quasi-vital
quasi-vitally
quasi-vocational
quasi-vocationally
quasi-warfare
quasi-warranted
quasi-wealthy
quasi-whispered
quasi-wicked
quasi-wickedly
quasi-willing
quasi-willingly
quasi-wrong
quasi-young
quasi-zealous
quasi-zealously
quater-centenary
quaternary ammonium compound
quaternary ammonium salt
quaternion algebra
quaternion algebra
quaternion unit
quatre point
quatre premiers
quay punt
que sera sera
quean-cat
queen anne
queen anne's lace
queen bee
queen blue
queen bolt
queen butterfly
queen cactus
queen cage
queen cat
queen cattleya
queen cell
queen closer
queen conch
queen consort
queen dowager
queen excluder
queen fern
queen fritter
queen gold
queen mother
queen note
queen of heaven
queen of night
queen of puddings
queen of the meadow
queen of the prairie
queen olive
queen palm
queen post
queen regent
queen regnant
queen rod
queen shell
queen snake
queen staysail
queen stitch
queen substance
queen truss
queen's English
queen's birthday
queen's counsel
queen's evidence
queen's highway
queen's scout
queen's shilling
queen's ware
queen's wreath
queen-mother
queen-of-the-meadow
queen-of-the-prairie
queen-post
queen-post truss
queen-size bed
queens-ware
quick-eared
quick-fading
quick-falling
quick-fire
quick-firer
quick-firing
quick-flowing
quick-freeze
quick-freezer
quick-freezing
quick-froze
quick-frozen
quick-glancing
quick-gone
quick-growing
quick-guiding
quick-gushing
quick-handed
quick-laboring
quick-lunch
quick-lunch counter
quick-minded
quick-moving
quick-nosed
quick-paced
quick-piercing
quick-questioning
quick-raised
quick-returning
quick-rolling
quick-running
quick-saver
quick-scented
quick-scenting
quick-selling
quick-setting
quick-shifting
quick-shutting
quick-sighted
quick-sightedness
quick-speaking
quick-spirited
quick-spouting
quick-stepping
quick-talking
quick-tempered
quick-thinking
quick-thoughted
quick-thriving
quick-voiced
quick-winged
quick-witted
quick-wittedly
quick-wittedness
quick-wrought
quicken tree
quicken your pace
quickening grass
quickie strike
quickness to take offense
quickset hedge
quicksilver weed
quickstep march
quicumque vult
quid pro quo
quid pro quos
quids pro quo
quiet as a mouse
quiet as a street at night
quiet day
quiet death
quiet down
quiet ecstasy
quiet end
quiet good manners
quiet hour
quiet life
quiet mind
quiet please
quiet pleasure
quiet spell
quiet taste
quiet-colored
quiet-dispositioned
quiet-eyed
quiet-going
quiet-living
quiet-looking
quiet-mannered
quiet-minded
quiet-moving
quiet-patterned
quiet-seeming
quiet-spoken
quiet-tempered
quietistic painting
quod vide
quoddy boat
quoin post
quota immigrant
quota system
quotation board
quotation book
quotation mark
quotation marks
quotation noun
quote a price
quote chapter and verse
quote mark
quote out of context
quote yourself
quoted price
quotient group
quotient ring
quotient space
quotient verdict
r color
r-RNA
r-colour
r-less
rKET
rabbet draft
rabbet joint
rabbet plane
rabbet plank
rabbet-shaped
rabbinic hebrew
rabbit bandicoot
rabbit berry
rabbit breeder
rabbit brush
rabbit cat
rabbit ears
rabbit fev
rabbit fever
rabbit fish
rabbit flower
rabbit foot
rabbit louse
rabbit moth
rabbit punch
rabbit squirrel
rabbit stick
rabbit tick
rabbit tobacco
rabbit warren
rabbit's foot
rabbit's-foot
rabbit's-foot clover
rabbit-backed
rabbit-chasing
rabbit-ear
rabbit-ear faucet
rabbit-eared
rabbit-faced
rabbit-foot
rabbit-foot clover
rabbit-foot grass
rabbit-meat
rabbit-mouthed
rabbit-proof fence
rabbit-shouldered
rabbit-tail grass
rabbitskin glue
rabble rout
rabble-charming
rabble-chosen
rabble-courting
rabble-curbing
rabble-rouse
rabble-roused
rabble-rouser
rabble-rousing
raccoon dog
raccoon dog
raccoon fox
raccoon grape
raccoon oyster
raccoon perch
race against time
race board
race boat
race car
race card
race cloth
race cup
race extermination
race glass
race ground
race hatred
race horse
race horses
race knife
race meeting
race memory
race of man
race off
race plate
race prejudice
race problem
race psychology
race relations
race riot
race rotation
race runner
race snobbery
race stand
race suicide
race through the mind
race tool
race track
race week
race with
race with time
race your motor
race-begotten
race-course
race-horse
race-maintaining
race-murder
race-riding
race-running
race-track
race-wide
race-winning
racehorse grass
racemic acid
racemo-
racemose gland
rachi-
racial discrimination
racial immunity
racial memory
racial segregation
racial unconscious
racing car
racing crab
racing flag
racing form
racing gig
racing glass
racing iron
racing plate
racing saddle
racing shell
racing skate
racing skiff
racing stream
racing yacht
rack back
rack bar
rack block
rack car
rack clock
rack comb
rack locomotive
rack pillar
rack pin
rack punch
rack rail
rack railway
rack rent
rack saw
rack the rents
rack up
rack up the rents
rack wheel
rack your brains
rack-and-pinion
rack-and-pinion railroad
rack-and-pinion railway
rack-rent
rack-renter
rack-stick
racket court
racket press
racket wheel
racket-tail
rackets, the
racomo-oxalic
radar antenna
radar application
radar astronomer
radar astronomy
radar beacon
radar beacon buoy
radar bombsight
radar controls
radar countermeasure
radar defenses
radar dome
radar engineer
radar fence
radar highway patrol
radar interference
radar marked beacon
radar nacelle
radar navigation
radar nose
radar operation
radar parts
radar picket plane
radar pulse
radar reflector
radar scanner
radar screen
radar signal
radar speed meter
radar station
radar technician
radar telescope
radar tracking station
radar trap
radar-telephone relay
radial engine
radial motion
radial saw
radial symmetry
radial tire
radial triangulation
radial tyre
radial velocity
radial-flow turbine
radial-ply
radiant efficiency
radiant emittance
radiant energy
radiant exitance
radiant flux
radiant heat
radiant heater
radiant heating
radiant intensity
radiant point
radiant splendor
radiant-heat brooder
radiate cheer
radiate heat
radiate-veined
radiation atom
radiation belt
radiation counter
radiation counters and chambers
radiation fog
radiation pattern
radiation physicist
radiation physics
radiation potential
radiation pressure
radiation pyrometer
radiation sickness
radiation therapy
radiato-
radiato-undulate
radiator cap
radiator casing
radiator compound
radiator core
radiator foot
radiator gauge
radiator grille
radiator maker
radiator making
radiator tank
radiator valve
radical axis
radical change
radical chic
radical empiricism
radical empiricist
radical expression
radical operation
radical reform
radical right
radical rightism
radical sign
radical therapy
radici-
radio aerial
radio altimeter
radio amateur
radio antenna
radio astronomer
radio astronomy
radio show
radio signal
radio source
radio spectator
radio spectrum
radio star
radio station
radio technician
radio telescope
radio transmission
radio transmitter
radio tube
radio tubes
radio units
radio valve
radio wave
radio window
radio-active
radio-controlled lifeboat
radio-frequency
radio-frequency amplification
radio-frequency amplifier
radio-frequency circuit
radio-frequency echoes
radio-frequency heater
radio-frequency pulse
radio-frequency signal
radio-frequency stage
radio-frequency tube
radio-iodine
radio-navigational trainer
radio-phonograph
radio-phonograph combination
radio-record player
radio-ulna
radio-ulnar
radioactive decay
radioactive dust
radioactive element
radioactive elements
radioactive emanation
radioactive fallout
radioactive isotope
radioactive particle
radioactive radiation
radioactive series
radioactive substance
radioactive unit
radioactive units
radioactive waste
radiocarbon dating
radiological physics
radiosonde balloon
radiotelephone transmitter
radiotherapeutic substance
radiotherapeutic treatment
radish tree
radium B
radium bath
radium dial
radium emanation
radium lead
radium miner
radium paint
radium therapy
radium vermilion
radium-proof
radius bar
radius gauge
radius of action
radius of convergence
radius of curvature
radius of gyration
radius rod
radius trowel
radius vector
radius vectors
radix graminis
radix point
radon seed
raffia palm
raffle off
raffle wheel
raft body
raft dog
raft duck
raft ice
raft of money
raft port
rafted ice
rafter dam
rafter table
rag baby
rag bag
rag beater
rag bleacher
rag board
rag bolt
rag bush
rag carpet
rag chopper
rag dealer
rag doll
rag engine
rag fair
rag felt
rag gourd
rag lining
rag money
rag mop
rag offering
rag out
rag paper
rag peddler
rag pulp
rag rug
rag shop
rag stock
rag trade
rag tree
rag up
rag well
rag wheel
rag wool
rag work
rag-and-bone man
rag-and-chain pump
rag-bag
rag-bailing
rag-beating
rag-boiling
rag-bolt
rag-burn
rag-chew
rag-cutting
rag-fair
rag-made
rag-tag
rag-threshing
rag-time
rag-wheel
rage-crazed
rage-filled
rage-infuriate
rage-subduing
rage-swelling
rage-transported
ragged edge
ragged robin
ragged school
ragged staff
raggle block
raggle-taggle
raging fire
raging passion
raglan sleeve
ragman roll
ragman rolls
ragsorter's disease
ragtag and bobtail
ragtime band
ragtime music
ragweed family
rah-rah
raid the market
rail at
rail bead
rail car
rail chair
rail clip
rail dumper
rail ender
rail fence
rail filler
rail fork
rail guard
rail in
rail line
rail lock
rail maker
rail making
rail plate
rail setter
rail straightener
rail tongs
rail track
rail train
rail-bearing
rail-bending
rail-bonding
rail-borne
rain course
rain dance
rain doctor
rain dogs and polecats
rain down
rain forest
rain gauge
rain glass
rain god
rain gods
rain insurance
rain leader
rain lily
rain maker
rain making
rain or shine
rain out
rain pie
rain pipe
rain pitchforks
rain print
rain rot
rain shadow
rain shower
rain spot
rain suit
rain tadpoles
rain tree
rain water
rain wind rose
rain-awakened
rain-bearing
rain-beat
rain-beaten
rain-bird
rain-bitten
rain-bleared
rain-blue
rain-bright
rain-damped
rain-drenched
rain-driven
rain-dropping
rain-fowl
rain-fraught
rain-god
rain-gutted
rain-scented
rain-soaked
rain-sodden
rain-soft
rain-streaked
rain-swept
rain-threatening
rain-washed
rain-water
rain-water fish
rainbow bird
rainbow cactus
rainbow chaser
rainbow chasing
rainbow cordial
rainbow darter
rainbow fish
rainbow herring
rainbow moss
rainbow parrotfish
rainbow perch
rainbow runner
rainbow seaperch
rainbow snake
rainbow trout
rainbow-arched
rainbow-clad
rainbow-colored
rainbow-edged
rainbow-girded
rainbow-hued
rainbow-large
rainbow-painted
rainbow-sided
rainbow-skirted
rainbow-tinted
rainbow-winged
rainette green
rainwater pipe
rainy day
rainy season
rainy weather
raise Cain
raise Ned
raise a clamor
raise a cry
raise a din
raise a hand against
raise a howl
raise a hue and cry
raise a hue and cry against
raise a hullabaloo
raise a laugh
raise a question
raise a ruckus
raise a rumpus
raise a siege
raise a smile
raise a storm
raise aloft
raise an alarm
raise apprehensions
raise expectation
raise expectations
raise from the dead
raise ghosts
raise hell
raise hob
raise hob with
raise hope
raise merry hell
raise money
raise objections
raise sand
raise the curtain
raise the deuce
raise the devil
raise the dickens
raise the drawbridge
raise the elbow
raise the hue and cry
raise the hunt
raise the roof
raise the spirits
raise the temperature
raise to a fever heat
raise to a fever pitch
raise to more than one
raise up
raise up the voice
raise your choler
raise your dander
raise your eyebrows
raise your gorge
raise your hackles
raise your hand against
raise your hopes
raise your pay
raise your voice
raise your voice against
raised beach
raised doughnut
raised girt
raised in a barn
raised quarter-deck
raisin black
raisin bread
raisin grape
raisin purple
raisin tree
raisin wine
raisin-colored
raising bee
raising hammer
raising of temperature
raising plate
raising-piece
raison d'etat
raison d'etre
raison d'tre
raj-kumari
rake in
rake out
rake over the coals
rake up
rake up the past
rake vein
rake-hell
rake-off
rake-teeth
raked bow
raker tooth
raking bond
raking cornice
raking course
raking fire
raking over the coals
raking shore
raking-down
raking-over
ralli-car
rally around
rally round
rallying cry
rallying device
rallying point
rallying theme
ram bow
ram cat
ram down
ram down your throat
ram effect
ram in
ram leather
ram pressure
ram rocket
ram schooner
ram's horn
ram's-head lady's-slipper
ram's-horn
ram-air turbine
ram-cat
ram-headed
ram-jam
ram-jet engine
ram-jet propulsion
ram-line
ram-rod
ramage hawk
ramble on
ramble-scramble
ramjet engine
rammed earth
ramp along
ramp valley
rampant arch
rampant will
ramper eel
ramrod-stiff
ran-tan
ranch company
ranch country
ranch economics
ranch hand
ranch house
ranch life
ranch owner
ranch rider
ranch wagon
rand machine
randall grass
random access
random access memory
random bond
random data
random line
random motion
random point
random sample
random sampling
random shot
random-jointed
range angle
range finder
range finding
range grass
range horse
range itself
range light
range line
range mark
range marker
range masonry
range of accommodation
range of meaning
range of view
range of vision
range out
range over
range paralysis
range pole
range rake
range rider
range stove
range table
range the coast
range the world
range through
range with
range wool
range yourself on the side of
range yourself with
range-bred
range-marker generator
range-sweep amplifier
range-sweep generator
ranging pole
rank and file
rank beneath
rank first
rank high
rank low
rank out
rank under
rank-and-filer
rank-brained
rank-feeding
rank-growing
rank-grown
rank-minded
rank-out
rank-scented
rank-scenting
rank-smelling
rank-springing
rank-swelling
rank-tasting
rank-winged
ranking bar
ranking jumper
rankle in the breast
ransack your brains
ransom bill
ransom bond
rant and rave
rantum-scantum
ranz-des-vaches
rap full
rap on the knuckles
rap out an oath
rap session
rap sheet
rap shot
rap-full
rape butterfly
rape oil
rape wine
rapeseed oil
rapid eye movement
rapid fire
rapid glance
rapid recurrence
rapid slope
rapid succession
rapid transit
rapid-changing
rapid-fire
rapid-fire mount
rapid-firer
rapid-firing
rapid-flowing
rapid-flying
rapid-footed
rapid-mannered
rapid-passing
rapid-running
rapid-speaking
rapid-transit
rapier-like
rapier-proof
rapper-dandies
rapt attention
rapt away
rapt full
rapt in wonder
rapture-bound
rapture-breathing
rapture-bursting
rapture-giving
rapture-moving
rapture-ravished
rapture-rising
rapture-smitten
rapture-speaking
rapture-touched
rapture-trembling
rapture-wrought
rara avis
rare bird
rare book
rare earth
rare gas
rare good humor
rare metals
rare-bred
rare-earth element
rare-earth elements
rare-earth metal
rare-earth metals
rare-featured
rare-felt
rare-gifted
rare-painted
rare-qualified
rare-ripe
rare-seen
rare-shaped
rare show
rare-show
rarin' to go
raring to
rascally knave
rash conviction
rash impulse
rash-brain
rash-brained
rash-conceived
rash-embraced
rash-headed
rash-hearted
rash-levied
rash-minded
rash-pledged
rash-running
rash-spoken
rash-thoughted
rasher of bacon
rasing iron
rasing knife
rasp grass
rasp house
rasp palm
rasp pod
raspberry apple
raspberry beetle
raspberry bug
raspberry curl
raspberry mosaic
raspberry red
raspberry root borer
raspberry root rot
raspberry sawfly
raspberry wine
raspberry yellows
raspberry-jam
rasphead rockfish
rat cheese
rat claw foot
rat flea
rat flea
rat goose
rat hare
rat kangaroo
rat mite
rat mole
rat pineapple
rat poison
rat race
rat rhyme
rat snake
rat stop
rat tail
rat terrier
rat unit
rat's nest
rat's-tail
rat-a-tat
rat-bite fever
rat-catcher
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rat-eyed
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rat-kangaroos
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rat-lin
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rat-riddled
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rat-tail file
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rat-tailed maggot
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rat-trap
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ratatat-tat
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ratbite fever
ratchet brace
ratchet chain
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ratchet coupling
ratchet crank
ratchet drill
ratchet jack
ratchet stop
ratchet thread
ratchet tooth
ratchet wheel
ratchet-toothed
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rate base
rate cap
rate determination
rate highly
rate low
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rate making
rate of exchange
rate of interest
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rate-raising
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rated load
rathe-ripe
rather than
rating badge
rating flume
rating nut
ratio arm
ratio cognoscendi
ratio test
ration out
rational animal
rational calorie
rational faculty
rational form
rational function
rational ground
rational horizon
rational mechanics
rational number
rational psychology
rational theology
rational treatment
rational-emotive therapy
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raven-toned
raven-torn
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ravigote sauce
ravine deer
raving beauty
raving lunatic
raving mad
ravished away
ravison oil
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raw material
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raw wind
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raw-wool
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ray floret
razor-sharpening
razor-shell
razor-tongued
razor-weaponed
razor-witted
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reach a better place
reach a better world
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reach boat
reach boiling point
reach its season
reach land
reach manhood
reach maturity
reach of mind
reach orgasm
reach out
reach perfection
reach rod
reach safety
reach the age of consent
reach the breaking point
reach the depths
reach the ear
reach the ear of
reach the snapping point
reach to
reach twenty-one
reach voting age
reach womanhood
reach your destination
reach your ears
reach your goal
reach your majority
reach your nostrils
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read your hand
read your lines
read yourself in
read-write head
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readiness of feeling
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reading book
reading chair
reading desk
reading distance
reading glass
reading glasses
reading hook
reading in
reading lamp
reading man
reading matter
reading notice
reading pew
reading room
reading, writing, and arithmetic
reading-in machine
ready about
ready and willing
ready at hand
ready box
ready for
ready for anything
ready for bed
ready money
ready pen
ready reckoner
ready reply
ready retort
ready roofing
ready room
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ready to believe
ready to burst
ready to burst forth
ready to cry
ready to drop
ready up
ready wit
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ready yourself to
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real McCoy, the
real axis
real estate
real estate agent
real estate broker
real income
real issue
real lady
real man
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reaper file
reaper thresher
reaping hook
reaping machine
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rear aloft
rear arch
rear area
rear echelon
rear end
rear guard
rear its head
rear light
rear projection
rear sight
rear up
rear vault
rear-admiral
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rear-end
rear-guard
rear-horse
rear-steering
rear-vassal
rear-vault
rear-view mirror
rear-vision mirror
rearguard action
rearing bit
rearview mirror
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reason behind
reason for
reason for being
reason ill
reason in a circle
reason out
reason speciously
reason that
reason the point
reason to believe
reason why
reason with
reasonable charge
reasonable ground
reasonable hope
reasonable presumption
reasonable price
reasoning faculty
reasoning power
rebate plane
rebel clover
rebel yell
rebound clip
rebound leaf
rebus sic stantibus
rec room
recalcitrance point
recall dose
recall knowledge of
recall of ambassadors
recall to life
recall to mind
recapitulation theory
recapture clause
receipt book
receipt in full
receipt in full of all demands
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receive a false impression
receive absolution
receive an impression
receive credit
receive instruction
receive pleasure from
receive the Sacrament
receive with open arms
received meaning
receiver of stolen goods
receiver part
receiver parts
receiver-general
receiving antenna
receiving blanket
receiving line
receiving note
receiving order
receiving pallet
receiving set
receiving ship
receiving station
receiving tube
recent past
receptaculum seminis
reception hall
reception room
receptive mood
recess appointment
recess bed
recess committee
recess of the memory
recesses of the heart
recession from one another
recessional hymn
recessional march
recessive character
recharge your batteries
rechargeable-battery radio
reciprocal exchange
reciprocal insurance
reciprocal leveling
reciprocal ohm
reciprocal or mutual relation
reciprocal pronoun
reciprocal trade
reciprocal transfusion
reciprocating engine
reciprocity failure
reciprocity law
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recitativi secchi
recitativo accompagnato
recitativo secco
recitativo stromentato
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reciting note
reciting the rosary
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reckless expenditure
reckless person
reckless spending
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reckon in
reckon on
reckon up
reckon up to
reckon with
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red alder
red alert
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red algae
red ant
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red as a live coal
red as a lobster
red as a turkey-cock
red as blood
red as fire
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red bark
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red blindness
red blood
red blood cell
red blood corpuscle
red book
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red bug
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red chalk
red chokeberry
red clay
red clover
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red corpuscle
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red flag
red flash
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red hands
red hat
red heat
red herring
red hind
red horse
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red indian
red jasmine
red jungle fowl
red kauri
red kowhai
red label
red larkspur
red lattice
red lead
red leaf
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red light
red line
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red maids
red man
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red mass
red meat
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red mercuric sulfide
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red shift
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redress an injustice
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rei persecutoria
rei-ntrant
reign of Saturn
reign of St
reign of terror
reigning beauty
reim-kennar
rein in
rein orchis
reindeer flower
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reindeer moss
reindeer pest
reinforced bow
reinforced concrete
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reinsurance fund
reisner work
reject authority
reject back
rejection slip
rejoice in
rejoice in a seller's market
rejoice in the name of
rejoice the heart
rejoice with
relapsing fever
relate at large
relate in extenso
relate to
relate to emotionally
related by blood
related word
relating to
relation word
relative aperture
relative atomic mass
relative bearing
close by marriage
close clause
close complement
close density
close dispersion
close electron affinity
close frequency
close heading
close humidit
close humidity
close incidence
close magnitude
close major
close majority
close maximum
close minimum
close minor
relative molecular mass
close permeability
close permittivity
close pitch
close pronoun
close to
close topology
close wind
close-in-law
relatively prime numbers
relatives-in-law
relativistic quantum mechanics
relativity doublet
relativity shift
relax conditions
relax the condition
relax your grip
relax your hold
relaxation of tension
relay broadcast
relay fast
relay governor
relay hunger strike
relay links
relay race
relay receiver
relay register
relay station
relay stations
relay transmitters
relayer rail
release copy
release date
release therapy
released time
relegate to a place
relevant fact
relevant instance
reliability coefficient
reliance in
reliance on
relic area
relic of the past
relic-covered
relic-vending
relief etching
relief frame
relief map
relief method
relief motion
relief pallet
relief payments
relief pitcher
relief printing
relief ship
relief tube
relief valve
relief well
relief-carving
relieve the mind of
relieve you of
relieve your mind
relieve yourself
relieving arch
relieving tackle
religio-
religio-educational
religio-magical
religio-military
religio-philosophical
religio-political
religio-scientific
religions and sects
religious belief
religious believer
religious ceremony
religious discourse
religious education
religious faith
religious founder
religious house
religious humbug
religious hypocrite
religious leader
religious order
religious prophets
religious rites
religious school
religious truth
religious war
religious-minded
religious-mindedness
religiously exact
relinquish your life
relocation camp
reluctance amplifier
rely on
rely on fortune
rely upon
remain anonymous
remain at a distance
remain at peace
remain firm
remain in the shade
remain in your memory
remain incommunicado
remain motionless
remain neutral
remain on your hands
remain seated
remain stable
remain unmoved
remain valid
remainder theorem
remand home
remand school
remanent magnetism
remark upon
remarkably like
remarque proof
remedial measure
remedial of
remedy an injustice
remedy-proof
remembrance day
remind one of
remind you of
remission of sin
remit the penalty of
remittance man
remitent fever
remontoir escapement
remorse of conscience
remote age
remote cause
remote control
remote distance
remote future
remote handling
remote past
remote pickup
remote possibility
remote region
remote resemblance
remote time
remote-control
remote-controlled
remote-pickup unit
remotely like
remotely related
remotest corner of the world
remoulade sauce
remount cavalry
removal cutting
removal to Abraham's bosom
removal to heaven
remove all doubt
remove all restrictions
remove friction
remove from life
remove from office
removed from the record
removing the veil
remuneratory sanction
renal calculus
renal hematuria
renal pelvis
renal splanchnic nerve
rend asunder
rend from
rend the air
rend the eardrums
rend the ears
rend the firmament
rend the heart
rend the skies
render a service
render assistance
render blind
render credit
render honor to
render insensible
render lip service
render powerless
render recognition
render service to
render thanks
render up
rendering coat
rendering works
renew your strength
reni-
rennet bag
rennet casein
rennet ferment
renonuce the throne
rent charge
rent charger
rent control
rent gouger
rent insurance
rent money
rent out
rent party
rent resolute
rent seek
rent service
rent-charge
rent-collecting
rent-free
rent-paying
rent-producing
rent-raising
rent-reducing
rent-roll
rent-seck
rent-service
rental car
rental color income
rental library
rents seck
renunciation of the world
rep show
repair run
repair ship
repair shop
repair to
reparative surgery
repay in kind
repeat again
repeat by heart
repeat by rote
repeat like a broken record
repeat like a parrot
repeat order
repeat performance
repeat verbatim
repeat word for word
repeat yourself
repeated figure
repeated sounds
repeating decimal
repeating firearm
repeating theodolite
repeating watch
repent in sackcloth and ashes
repertory company
repertory drama
repertory show
repertory theater
repetition for effect
repetition for emphasis
replacement cost
replacement therapy
replacement transfusion
replacement vein
replica grating
reply by return mail
reply card
reply coupon
reply to
report card
report for duty
report out
report stage
reported speech
reporting pay
repose confidence in
repose in
repose on
repose on your laurels
repose upon
represent yourself to be
representative art
representative democracy
representative fraction
representative government
representative of the press
representative realism
representative town meeting
representative-elect
representing in the mind
repress a smile
repress your desires
repro proof
reproach yourself
reproduce after your kind
reproduce in kind
reproducing element
reproduction cost
reproduction proof
reproductive cell
reproductive imagination
reproductive organs
reproving look
reptilian age
republic of letters
request note
request stop
request the presence of
requiem mass
requiem shark
requiescant in pace
requiescat in pace
require an answer
required visit
requisition form
rere-
rere-brace
rere-dorter
rere-supper
res adjudicata
res gestae
res ipsa loquitur
res judicata
res publica
resale price maintenance
rescue device
rescue grass
rescue helicopter
rescue mission
rescue plane
research and development
research center
research engineer
research engineering
research establishment
research facility
research installation
research laboratory
research library
research material
research monograph
research paper
research plane
research professor
research rocket
research satellite
research station
research study
research worker
reserve account
reserve bank
reserve buoyancy
reserve city
reserve currency
reserve forces
reserve fund
reserve militia
reserve officer
reserve price
reserve ratio
reserve ration
reserve supply
reserve yourself
reserved list
reserved occupation
reserved power
reset action
reside in
resident commissioner
resident maid
resident physician
residential district
residual clay
residual magnetism
residual power
residual stress
residuary devisee
residuary legatee
resign from
resign your being
resign your life
resign yourself
resign yourself to
resignation bond
resigned-looking
resin alcohol
resin bee
resin canal
resin cerate
resin distiller
resin gnat
resin jack
resin oil
resin opal
resin plant
resin plastic
resin soap
resin spirit
resino-
resist believing
resist entreaty
resist persuasion
resist printing
resistance box
resistance butt welding
resistance capacitance
resistance coil
resistance coupling
resistance derivative
resistance drop
resistance fighter
resistance fighting
resistance frame
resistance furnace
resistance pyrometer
resistance thermometer
resistance to belief
resistance to change
resistance welding
resisting medium
resisting moment
resistive conductor
respiratory disease
respiratory leaf
respiratory nerve
respiratory pigment
respiratory plate
respiratory quotient
respiratory system
respiratory tree
respiratory trumpet
resplendent trogon
resplendently beautiful
respond to
respond to stimuli
responding note
responsary report
response generalization
response time
response to stimuli
responsible for
responsible person
responsory report
rest and be thankful
rest assured
rest cure
rest day
rest easy
rest energy
rest from your labors
rest hard upon
rest home
rest house
rest in
rest in confidence
rest in peace
rest in the arms of Morpheus
rest mass
rest on
rest on the shoulders of
rest on your laurels
rest on your oars
rest room
rest satisfied
rest stop
rest treatment
rest up
rest upon
rest upon your oars
rest with
rest your case
rest-balk
rest-cure
rest-cured
rest-giving
rest-harrow
rest-home
rest-ordained
rest-refreshed
rest-seeking
rest-taking
restaurant car
restful sleep
resting easy
resting in peace
resting of the case
resting place
resting point
restless cavy
restore harmony
restore self-respect
restore to health
restoring spring
restrain yourself
restraining hand
restraining order
restraint of trade
restrict to
restrict yourself
restricted class
restricted information
restricted practice
restricted propellant
restricted theory of relativity
restriction of intake
restrictive clause
restrictive covenants
restrictive practice
result clause
result from
result on
resultant force
resultant tone
resulting from
resurrecet-tasting liquid
resurrection body
resurrection bolly
resurrection fern
resurrection gate
resurrection man
resurrection pie
resurrection plant
resurrection woman
retail dealer
retail gossip
retail merchant
retail seller
retail store
retain in the thoughts
retain the memory of
retained earnings
retained income
retained object
retained objective complement
retaining fee
retaining wall
retardation method
retentive memory
retentive mind
retia mirabilia
reticular system
reticulate python
reticulated tracery
reticulated vessel
reticulato-
reticulo-
reticuloendothelial system
reticulum cell
reticulum cell sarcoma
retin-
retinal rod
retinitis pigmentosa
retino-
retire from office
retire from sight
retire from the world
retire into the shade
retire into your shell
retired list
retired professor
retirement benefits
retirement from office
retirement income insurance
retiring disposition
retold story
retonation wave
retort an accusation
retort drawer
retort stand
retrace your steps
retractable landing gear
retreaded tire
retreat into your mind
retreat into your shell
retreat into your thoughts
retreat to immaturity
retreating market
retributive justice
retro rocket
retro-
retro-float light
retro-ocular
retro-omental
retro-operative
retro-oral
retro-rocket
retro-umbilical
retro-uterine
retroactive inhibition
retroanterograde amnesia
retrograde amnesia
rets currach
return a true bill
return a verdict
return a verdict of not guilty
return address
return answer
return ball
return bead
return beam
return bend
return blow for blow
return card
return crease
return day
return evil for evil
return for answer
return game
return like for like
return match
return of evil for evil
return piece
return receipt
return shock
return signal
return thanks
return the compliment
return the like
return ticket
return to
return to dust
return to life
return to mind
return to reality
return to the earth
return to the fold
return to the soil
return to the starting point
return trap
return wall
return-cocked
return-day
return-flue boiler
return-tubular boiler
returning board
returning officer
rev counter
reveal a secret
reveal yourself
revealed religion
revealed truth
revel in
revel master
revel-rout
revenge in kind
revenge tragedy
revenue account
revenue bond
revenue cutter
revenue expenditure
revenue stamp
revenue tariff
reverbatory furnace
reverberation chamber
reverberation time
reverberatory furnace
reverberatory kiln
reverend sir
reverential regard
reversal film
reversal plate
reversal process
reverse bar
reverse bevel
reverse bid
reverse discard
reverse discrimination
reverse of fortune
reverse plate
reverse shot
reverse split
reverse transcriptase
reverse transfer resistance
reverse turn
reverse your field
reverse yourself
reverse-angle shot
reverse-charge
reverse-phase relay
reversed collar
reversed feedback
reversible reaction
reversible-disk plow
reversing light
reversing prism
reversing switch
reversing thermometer
reversion duty
reversion pendulum
reversion spectroscopy
reversionary annuity
revert to
review copy
review in retrospect
review of things past
revise your thoughts
revised edition
revised standard version
revised version
revival meeting
revolt at
revolting with
revolting with endured
revolution control
revolutionary calendar
revolutionary junta
revolutionary war
revolutions per minute
revolve in the mind
revolve on
revolve upon
revolving bookcase
revolving bookstand
revolving credit
revolving door
revolving fund
revolving lever
revolving on
revolving stage
revolving-jaw box chuck
revolving-jaw chuck
rewa-rewa
reward claim
reworked wool
rewrite man
rewrite rule
rex begonia
rez-de-chaussee
rh factor
rh-negative
rh-positive
rhabdo-
rhaeto-romanic
rheims version
rhein-berry
rheo-
rhesus baby
rhesus factor
rhesus monkey
rhetorical accent
rhetorical question
rhetorical stress
rheumatic disease
rheumatic fever
rheumatic heart disease
rheumatism of the heart
rheumatism root
rheumatism weed
rheumatism-root
rheumato-
rheumatoid arthritis
rhin-
rhine wine
rhino-
rhinoceros auklet
rhinoceros beetle
rhinoceros bird
rhinoceros bush
rhinoceros hide
rhinoceros hornbill
rhinoceros viper
rhinoceros-shaped
rhinolalia aperta
rhinolalia clausa
rhiz-
rhizo-
rhizoctonia disease
rhizosphere effect
rho particle
rhod-
rhode island bent
rhode island red
rhode island white
rhodes grass
rhodes scholar
rhodesian man
rhodium oil
rhodium wood
rhodo-
rhodonite pink
rhomb spar
rhomb-
rhomb-leaved
rhombic aerial
rhombic antenna
rhombo-
rhomboid-ovate
rhubarb wine
thumb line
rhumbline sailing
rhus dermatitis
rhus glabra
rhyme or reason
rhyme royal
rhyme scheme
rhyme word
rhyme-beginning
rhyme-composing
rhyme-fettered
rhyme-forming
rhyme-free
rhyme-inspiring
rhyme-tagged
rhyming dictionary
rhyming slang
rhyolite-porphyry
rhythm band
rhythm method
rhythm section
rhythm stick
rhythm-and-blues
rhythmic pattern
rhythmic phrase
rhythmic play
rhythmical accent
rhythmical accentuation
rhythmical stress
rib cage
rib cut
rib grass
rib lath
rib meristem
rib rifling
rib roast
rib steak
rib stitch
rib tickler
rib-bearing
rib-breaking
rib-faced
rib-grass
rib-grated
rib-mauled
rib-pointed
rib-poking
rib-roast
rib-sticking
rib-striped
rib-supported
rib-welted
ribband carvel
ribband lines
ribbed and smoked sheet
ribbed toad
ribble-rabble
ribbon brake
ribbon building
ribbon bush
ribbon candy
ribbon conveyer
ribbon copy
rice grass
rice grinder
rice grower
rice hen
rice huller
rice milk
rice mill
rice miller
rice mouse
rice paddy
rice paper
rice planter
rice polish
rice polisher
rice polishings
rice powder
rice rat
rice shell
rice tenrec
rice water
rice weevil
rice wine
rice-bird
rice-cleaning
rice-clipping
rice-eating
rice-field eel
rice-grading
rice-grain decoration
rice-grinding
rice-growing
rice-hulling
rice-paper
rice-paper tree
rice-planting
rice-polishing
rice-pounding
rice-root grass
rice-seed body
rice-water
rich as Croesus
rich harvest
rich hat
rich imagination
rich lode
rich man
rich man's panic
rich ore
rich rhyme
rich soil
rich source
rich uncle
rich vein
rich, the
rich-apparelled
rich-attired
rich-bedight
rich-bound
rich-built
rich-burning
rich-clad
rich-colored
rich-conceited
rich-distilled
rich-embroidered
rich-figured
rich-flavored
rich-fleeced
rich-fleshed
rich-glittering
rich-haired
rich-jeweled
rich-laden
rich-looking
rich-minded
rich-ored
rich-robed
rich-set
rich-soiled
rich-tasting
rich-toned
rich-voiced
rich-weed
rich-wrought
richard roe
riche bird
richly deserve
richly deserved
richness of meaning
ricinoleic acid
ricinus oil
rick carrier
rick-barton
rick-burton
rick-yard
rickettsial disease
ricochet fire
rictal bristle
rid of
rid yourself of
riddle ballad
riddle cake
riddle canon
riddle of the Sphinx
ride a broomstick
ride a hobby
ride a hobbyhorse
ride a storm
ride and tie
ride at anchor
ride bareback
ride down
ride easy
ride for a fall
ride full tilt against
ride gain
ride hard
ride hawse full
ride herd on
ride high
ride it out
ride on a rail
ride out
ride out a storm
ride out the storm
ride over
ride roughshod over
ride shank's mare
ride shank's pony
ride shotgun for
ride the beam
ride the high horse
ride the hobnail express
ride the sea
ride the shoe-leather
ride the skies
ride to a fall
ride to death
ride to hounds
ride to leeward
ride up
rider embolus
rider keelson
ridge beam
riffle through
rifle assembler
rifle ball
rifle bar
rifle bird
rifle bomb
rifle corps
rifle fire
rifle frock
rifle green
rifle grenade
rifle gun
rifle pit
rifle range
rifle salute
rifle shot
rifle tie
rifle-bird
rifle-range
rifle-shot
rifled slug
rift board
rift saw
rift valley
rift-sawed
rift-sawing
rift-sawn
rifty-tufty
rig down
rig for diving
rig out
rig shenanigan
rig the market
rig tree
rig up
rig-out
rig-up
rig-veda
rigged jury
rigged market
rigged oar
rigged out
rigger's knife
rigging angle of incidence
rigging loft
rigging plan
rigging screw
right about
right about face
right along
right along there with
right amount
right and left
right and proper
right angle
right as rain
right ascension
right away
right belief
right bower
right boys
right center
right circular cone
right circular cylinder
right conduct
right cylinder
right doctrine
right face
right field
right fielder
right five degrees rudder
right full rudder
right half rudder
right hand
right handsomely
right in the head
right itself
right line
right mind
right mood
right now
right of angry
right of asylum
right of center
right of common
right of eminent domain
right of emption
right of entry
right of preemption
right of put and call
right of search
right of sole emption
right of use
right of way
right off
right off the bat
right off the reel
right on
right on end
right people
right reverend
right rudder
right section
right side
right side of the tracks
right side of, the
right smart
right smart spell
right sort
right stage
right standard rudder
right taste
right ten degrees rudder
right thing, the
right thinking
right to vote
right triangle
right whale
right wing
right with
right you are
right-about
right-about-face
right-aiming
right-angle
right-angled
right-angled triangle
right-angledness
right-angular
right-angularity
right-away
right-bank
right-believed
right-believing
right-born
right-bout
right-brained
right-bred
right-center
right-central
right-down
right-drawn
right-eared
right-eyed
right-eyedness
right-footed
right-footer
right-forward
right-framed
right-hand
right-hand man
right-hand side
right-hand tool
right-handed
right-handedly
right-handedness
right-hander
right-handwise
right-ho
right-laid
right-lay
right-left handed
right-lined
right-made
right-meaning
right-minded
right-mindedly
right-mindedness
right-of-way
right-of-way signal
right-oh
right-onward
right-principled
right-running
right-shaped
right-shapen
right-side
right-sided
right-sidedly
right-sidedness
right-thinking
right-to-work law
right-turn
right-up
right-walking
right-wheel
right-wing
right-winger
right-wingish
right-wingism
rightabout-face
righteous indignation
righteous, the
righteye flounder
rightful authority
rightful succession
righting lever
righting moment
rights issue
rights of man
rights of women
rights-of-way
rigid airship
rigid control
rigid discipline
rigid frame
rigid motion
rigid supports
rigid-body
rigid-frame
rigid-nerved
rigid-seeming
rigor mortis
riled up
rilievi schiacciati
rilievo schiacciato
rilievo stiacciato
rill stope
rill-like
rim ash
rim blight
rim clutch
rim lighting
rim lock
rim man
rim of the horizon
rim pulley
rim ram ruf
rim saw
rim shaft
rim wheel
rim-bearing
rim-bending
rim-bound
rim-cut
rim-deep
rim-fire
rimble-ramble
rime frost
rime ice
ring gear
ring in
ring in the ear
ring in the ears
ring machine
ring main
ring man
ring micrometer
ring nebula
ring necrosis
ring of the nibelung
ring off
ring oiler
ring on the air
ring out
ring ouzel
ring peals
ring pin
ring road
ring rope
ring rot
ring screw
ring seizing
ring shake
ring shout
ring snake
ring spinner
ring spinning
ring spot
ring stone
ring taw
ring the bell
ring the changes
ring the tocsin
ring traveler
ring true
ring up
ring up the curtain
ring winding
ring with the praises of
ring your praises
ring-a-lievio
ring-a-rosy
ring-adorned
ring-around
ring-banded
ring-bark
ring-billed
riot gun
riot in
riot of color
riot of colors
riot police
riot squad
riotous living
rip apart
rip cord
rip current
rip from
rip hook
rip into
rip off
rip open
rip out
rip out an oath
rip panel
rip tide
rip to pieces
rip up
rip van winkle
rip-off
rip-rap
rip-roaring
rip-roaring drunk
rip-roarious
rip-saw
riparian right
ripe age
ripe for instruction
ripe idea
ripe old age
ripe rot
ripe stump
ripe wisdom
ripe-aged
ripe-bending
ripe-cheeked
ripe-colored
ripe-eared
ripe-faced
ripe-grown
ripe-looking
ripe-picked
ripe-red
ripe-tongued
ripe-witted
rising generation
rising ground
rising hinge
rising line
rising market
rising of the curtain
rising prices
rising rhythm
rising terminal
rising trot
rising vote
risk assuming
risk capital
risk premium
risk stating
risk your life
risus sardonicus
rite de passage
rite of confession
rite of intensification
rite of passage
ritual contamination
ritual impurity
ritual killing
ritual murder
ritual observance
ritual suicide
ritual uncleaness
ritualistic article
ritualistic book
ritualistic manual
ritually clean
ritually contaminated
ritually immerse
ritually impure
ritually pure
ritually unclean
ritz it
rivage green
river ash
river bank
river basin
river bass
river bed
river birch
river boulder
river bulrush
river carpsucker
river craft
rive deer
river dolphin
river driver
river front
river grass
river gunboat
river horse
river jack
river lamprey
river locust
river maple
river mussel
river novel
river oak
river of Hades
river of death
river of oblivion
river pilot
river rat
river road
river shrew
river sunflower
river wattle
river-blanced
river-borne
river-bottom
river-caught
river-drift
river-fish
river-formed
river-given
river-god
river-goddess
river-horse
river-sundered
river-water
river-watered
river-worn
riverbank grape
rivet buster
rivet carrier
rivet catcher
rivet forge
rivet heater
rivet hole
rivet in the memory
rivet knob
road oil
road pen
road plow
road race
road racer
road racing
road rash
road repairer
road roller
road runner
road scraper
road show
road sign
road tar
road test
road train
road wagon
road wheel
road works
road-bike
road-faring
road-fund licence
road-grading
road-hoggish
road-hoggism
road-maker
road-oiling
road-ready
road-test
road-testing
road-train
road-weary
road-wise
roan-tree
roar like a bull
roar of laughter
roar up
roar with laughter
roaring drunk
roaring fire
roaring forties
roaring mad
roaring success
roaring trade
roast beef
roast meat
roast sintering
roast-beef plant
rock wool
rock wren
rock'n roll
rock-'n'-roll
rock-and-roll
rock-and-roll group
rock-and-roll singer
rock-based
rock-basin
rock-battering
rock-bed
rock-begirdled
rock-bestudded
rock-bethreatened
rock-boring
rock-bottom
rock-bottom prices
rock-bound
rock-breaking
rock-built
rock-cistus
rock-clad
rock-cleft
rock-climb
rock-climber
rock-climbing
rock-concealed
rock-covered
rock-crested
rock-crushing
rock-cut
rock-drilling
rock-dusted
rock-dwelling
rock-eel
rock-embosomed
rock-encircled
rock-encumbered
rock-enthroned
rock-faced
rock-fallen
rock-fast
rock-fill
rock-fill dam
rock-firm
rock-firmed
rock-fish
rock-forming
rock-free
rock-frequenting
rock-girded
rock-girt
rock-hard
rock-hewn
rock-inhabiting
rock-loving
rock-melting
rock-piercing
rock-pigeon
rock-piled
rock-plant
rock-pulverizing
rock-razing
rock-reared
rock-ribbed
rock-roofed
rock-rooted
rock-rose
rock-rushing
rock-salt
rock-scarped
rock-shaft
rock-sheltered
rock-steady
rock-strewn
rock-studded
rock-throned
rock-thwarted
rock-torn
rock-weed
rock-wombed
rock-work
rock-worked
rockbound coast
rocker arm
rocker bent
rocker cam
rocker panel
rocket airplane
rocket and missile names
rocket apparatus
rocket assist
rocket boat
rocket bomb
rocket car
rocket engine
rod and reel
rod bayonet
rod bolt
rod breaker
rod epithelium
rod fiber
rod granule
rod mill
rod of empire
rod of office
rod peeler
rod rigging
rod vision
rod-bending
rod-boring
rod-caught
rod-cone theory
rod-drawing
rod-healing
rod-pointing
rod-polishing
rod-shaped
rodded joint
rode goose
rodent operative
rodent ulcer
roe deer
roe-deer
roebuck berry
roentgen equivalent man
roentgen ray
roentgen ray therapy
roentgen-ray cancer
roentgeno-
rogation day
roger de coverley
rogue elephant
rogue's badge
rogue's march
rogue's yarn
rogues' gallery
rohr flute
roister-doister
roister-doisterly
role-player
role-playing
roll about
roll and fillet molding
roll around
roll back
roll call
roll cloud
roll film
roll flat
roll in
roll in the dust
roll in the lap of luxury
roll in wealth
roll into one
roll lathe
roll logs
roll of coins
roll of honour
roll of the dead
roll of the wheel
roll on
roll on the ground
roll on the tongue
roll out
roll over
roll over and play dead
roll scale
roll the stone of Sisyphus
roll top
roll train
roll under the tongue
roll up
roll up into a ball
roll up your sleeves
roll welding
roll with the punches
roll-about
roll-away bed
roll-call
roll-collar
roll-cumulus
roll-leaf
roll-on/roll-off
roll-out
roll-over
roll-top
roll-top desk
roll-turning lathe
rolled flat
rolled glass
rolled gold
rolled into one
rolled oats
rolled roast
rolled-steel joist
roller bandage
roller bar
roller bearing
roller blind
roller bowl
roller chain
roller chock
roller coaster
roller dam
roller derby
roller fairlead
roller gate
roller gear
roller gin
roller grinder
roller jewel
roller mill
roller nest
roller press
roller shade
roller skate
roller skater
roller skates
roller skating
roller stock
roller towel
roller-backer
roller-blind shutter
roller-carrying
roller-grinding
roller-made
roller-milled
roller-milling
roller-reefing gear
roller-skate
roller-skated
roller-skating
roller-top
rolling barrage
rolling bunt
rolling chock
rolling chock
rolling country
rolling crest dam
rolling fire
rolling friction
rolling hitch
rolling hitcher
rolling in money
rolling in wealth
rolling kitchen
rolling machine
rolling mill
rolling on
rolling pin
rolling press
rolling rope
rolling stock
rolling stone
rolling-contact bearing
rolling-element bearing
rolling-key clutch
rolling-mill
rolling-pin
rolling-press
rolltop desk
roly-poliness
roly-poly
roly-poly grass
romaine lettuce
roman a clef
roman architecture
roman calendar
roman candle
roman catholic
roman collar
roman numeral
roman-fleuve
romance stanza
romance-empurpled
romance-hallowed
romance-inspiring
romance-making
romance-writing
romano-
romantic bond
romantic comedy
romantic melancholy
romantic tie
romantic tragedy
romantico-heroic
romantico-robustious
rome-penny
roof-building
roof-climbing
roof-deck
roof-draining
roof-dwelling
roof-gardening
roof-haunting
roof-reaching
roof-shaped
roof-tree
roofed-in
roofed-over
roofing nail
roofing paper
roofing tile
rook-coated
rooketty-coo
room and board
room clerk
room decoration
room decorator
room divider
room service
room temperature
room to spare
room to swing a cat
room trader
room-and-pillar
room-mate
room-ridden
room-temperature
rooming house
roost cock
roosting place
root and branch
root beer
root beer float
root borer
root canal
root canal therapy
root canal treatment
root cap
root cell
root cellar
root chord
root climber
root crop
root cutting
root determinative
root disease
root division
root field
root for
root gall
root graft
root grafting
root hair
root in
root knot
root mean square
root nodule
root of all evil
root on
root out
root parasite
root position
root pressure
root rot
root sheath
root test
root tip
root up
root vole
root weevil
root-bound
root-bruising
root-built
root-devouring
root-digging
root-eating
root-feeding
root-hardy
root-inwoven
root-mean-square
root-neck
root-parasitic
root-parasitism
root-prune
root-pruned
root-stock
root-torn
rooted belief
rooting out
rope belting
rope brake
rope bridge
rope brown
rope dancer
rope enough to hang yourself
rope greaser
rope house
rope in
rope ladder
rope machine
rope maker
rope molding
rope of sand
rope off
rope race
rope railway
rope shoes
rope socket
rope spinner
rope stitch
rope twine
rope yarn
rope's end
rope-band
rope-bound
rope-closing
rope-dancer
rope-driven
rope-driving
rope-end
rope-fastened
rope-girt
rope-laying
rope-muscled
rope-pulling
rope-reeved
rope-shod
rope-sight
rope-spinning
rope-stock
rope-stropped
rope-work
rope-yarn
rope-yarn knot
roped off
roping horse
roping palm
ropy lava
rory-cum-tory
rory-tory
rose oil
rose opal
rose pink
rose point
rose purple
rose quartz
rose rial
rose slug
rose stitch
rose tickseed
rose water
rose weevil
rose willow
rose window
rose wine
rose worm
rose-a-ruby
rose-apple
rose-back
rose-bay
rose-bellied
rose-blue
rose-breasted
rose-breasted grosbeak
rose-bright
rose-bush
rose-campion
rose-carved
rose-chafer
rose-checkered
rose-clad
rose-color
rose-colored
rose-colored glasses
rose-colored spectacles
rose-colorist
rose-colour
rose-coloured
rose-combed
rose-combed
rose-covered
rose-crowned
rose-cut
rose-diamond
rose-diffusing
rose-drop
rose-eared
rose-engine
rose-ensanguined
rose-faced
rose-fingered
rose-flowered
rose-fresh
rose-gathering
rose-geranium oil
rose-growing
rose-headed
rose-hedged
rose-hued
rose-leaf
rose-leaved
rose-lipped
rose-lit
rose-loving
rose-nail
rose-petty
rose-pink
rose-podded
rose-red
rose-tinged
rose-tree
rose-warm
rose-water
rose-window
rose-wreathed
rosemary oil
roseo-
rosetta stone
rosetta wood
rosetta-wood
rossette plate
rosewood oil
rosh hashanah
rosin grease
rosin jack
rosin oil
rosin plant
rosin rose
rosin soap
rosin spirit
rosso antico
rostral column
rosy era
rosy expectation
rosy finch
rosy outlook
rosy pastor
rosy-armed
rosy-blushing
rosy-bosomed
rosy-cheeked
rosy-colored
rosy-crimson
rosy-dancing
rosy-eared
rosy-faced
rosy-finger'd morn
rosy-fingered
rosy-hued
rosy-lipped
rosy-purple
rosy-red
rosy-tinted
rosy-tipped
rosy-toed
rosy-warm
rot grass
rot-gut
rot-steep
rotary cultivator
rotary current
rotary drill
rotary engine
rotary gap
rotary hoe
rotary photogravure
rotary plough
rotary plow
rotary press
rotary pump
rotary shutter
rotary storm
rotary tiller
rotary wing
rotary-beam antenna
rotary-cut
rotary-piston engine
rotary-wing aircraft
rouge plant
rough air
rough bent
rough bluegrass
rough breathing
rough cast
rough copy
rough corners
rough diamond
rough draft
rough edges
rough fish
rough go
rough guess
rough in
rough it
rough leaf
rough loader
rough log
rough measure
rough out
rough outline
rough passage
rough puff pastry
rough sea
rough sketch
rough spot
rough stuff
rough surface
rough trade
rough turner
rough up
rough usage
rough water
rough weather
rough wine
rough woodbine
rough-and-readiness
rough-and-ready
rough-and-tumble
rough-backed
rough-barked
rough-bearded
rough-bedded
rough-billed
rough-blustering
rough-board
rough-bordered
rough-cast
rough-cheeked
rough-clad
rough-clanking
rough-coat
rough-coated
rough-cut
rough-draw
rough-dried
rough-dry
rough-drying
rough-edge
rough-edged
rough-enter
rough-face
rough-faced
rough-feathered
rough-finned
rough-foliaged
rough-footed
rough-form
rough-fruitied
rough-furrowed
rough-grained
rough-grind
rough-grinder
rough-grown
rough-hackle
rough-hackled
rough-haired
rough-handed
rough-handedness
rough-headed
rough-hew
rough-hew them how we will
rough-hewed
rough-hewing
rough-hewn
rough-hob
rough-hobbled
rough-hull
rough-jacketed
rough-keeled
rough-leaved
rough-legged
rough-legged buzzard
rough-legged hawk
rough-level
rough-lipped
rough-living
rough-looking
rough-mannered
rough-necked
rough-paved
rough-plane
rough-plastered
rough-plow
rough-plumed
rough-podded
rough-point
rough-ream
rough-reddened
rough-rider
rough-ridged
rough-roll
rough-sawn
rough-scaled
rough-seeded
rough-shape
rough-sketch
rough-skinned
rough-spirited
rough-spoken
rough-square
rough-stalked
rough-stemmed
rough-stone
rough-stringed
rough-surfaced
rough-swelling
rough-tailed
rough-tanned
rough-tasted
rough-textured
rough-thicketed
rough-toned
rough-tongued
rough-toothed
rough-tree
rough-tree rail
rough-turn
rough-turned
rough-voiced
rough-walled
rough-weather
rough-winged
rough-winged swallow
rough-write
rougher-down
rougher-out
rougher-up
roughing mill
roughing roll
roughing stone
roughing-in
roughly speaking
roulette table
roulette wheel
round a bend
round a corner
round a point
round about
round and round
round angle
round arch
round as a ball
round clam
round dance
round dancing
round down
round hand
round heart
round herring
round in
round kumquat
round lot
round number
round of applause
round of beef
round of drinks
round of pleasure
round of pleasures
round of visits
round off
round on
round out
round pace
round robin
round scale
round seizing
round shot
round steak
round sum
round table
round the bend
round the clock
round to
round top
round tower
round trade
round transaction
round trip
round turn
round turn and half hitch
round turn in the hawse
round up
round whitefish
round window
round-about-face
round-arch
round-arched
round-arm
round-arm blow
round-armed
round-backed
round-barreled
round-bellied
round-beset
round-billed
round-blazing
round-bodied
round-boned
round-bottomed
round-bowed
round-bowlled
round-built
round-cell sarcoma
round-celled
round-cornered
round-crested
round-dancer
round-eared
round-edge
round-edged
round-end
round-eyed
round-faced
round-fenced
round-footed
round-fruited
round-furrowed
round-hand
round-handed
round-headed
round-heart
round-hoofed
round-horned
round-house
round-leafed
round-leaved
round-leaved dogwood
round-limbed
round-lipped
round-lobed
round-made
round-mouthed
round-nosed
round-podded
round-pointed
round-ribbed
round-rolling
round-rooted
round-seeded
round-shapen
round-shouldered
round-shouldred
round-sided
round-skirted
round-spun
round-stalked
round-table
round-table conference
round-tailed
round-the-clock
round-toed
round-topped
round-trip
round-trip ticket
round-tripper
round-trussed
round-turning
round-up
round-visaged
round-winged
round-wombed
round-worm
roundabout chair
roundabout system
roundabout way
rounded out
roundheaded apple tree borer
roundhouse curve
rounding adz
rounding off
rounding out
rounding-out
roundish-deltoid
roundish-faced
roundish-featured
roundish-leaved
roundish-ovate
roundish-oval
roundish-ovate
roundish-shaped
roundlobe chisel
rouse out
rout cake
rout chair
rout out
rout seat
route army
route march
route marker
route nationale
route order
route step
route survey
router patch
router plane
routing plane
rove beetle
rove iron
rove punch
rove-beetle
rove-over
rover ball
roving commission
roving iron
row away
row crop
row culture
row dry
row galley
row house
row of buttons
row of pins
row over
row vector
row-barge
row-boat
row-de-dow
row-dow-dow
row-off
row-port
rowan tree
rowan-tree
rowdy-dowdy
rowed of all
rowing boat
rowing crew
rowing machine
rowing port
rowlock arch
royal Canadian
royal antler
royal assent
royal authority
royal blue
royal coachman
royal colony
royal crown
royal duke
royal fern
royal fizz
royal flush
royal grant
royal icing
royal insignia
royal jelly
royal lily
royal marriage
royal mast
royal oak
royal palm
royal pendulum
royal personage
royal pink
royal poinciana
royal prerogative
royal purple
royal quarto
royal red
royal road
royal seat
royal stag
royal standard
royal tennis
royal warrant
royal water lily
royal-born
royal-chartered
royal-hearted
royal-rich
royal-souled
royal-spirited
royal-towered
royston crow
ruat caelum
rub against
rub against the grain
rub along
rub away
rub down
rub elbows with
rub in
rub iron
rub it in
rub noses
rub off
rub off corners
rub on
rub out
rub salt in the wound
rub the lamp
rub the picture off a nickel
rub the print off a dollar bill
rub the right way
rub the ring
rub the wrong way
rub up
rub your eyes
rub your hands
rub-a-dub
rub-dub
rubaiyat stanza
rubarth's disease
rubber ball
rubber band
rubber bandage
rubber cement
rubber check
rubber cheque
rubber cloth
rubber dinghy
rubber gloves
rubber goods
rubber hydrocarbon
rubber knife
rubber latex
rubber mallet
rubber oil
rubber plant
rubber plate
rubber shoes
rubber snake
rubber spreader
rubber stamp
rubber tissue
rubber tree
rubber varnisher
rubber vine
rubber-base paint
rubber-block print
rubber-coated
rubber-collecting
rubber-cored
rubber-covered
rubber-cutting
rubber-down
rubber-faced
rubber-growing
rubber-headed
rubber-lined
rubber-mixing
rubber-off
rubber-producing
rubber-proofed
rubber-reclaiming
rubber-set
rubber-slitting
rubber-soled
rubber-spreading
rubber-stamp
rubber-testing
rubber-tired
rubber-varnishing
rubber-yielding
rubberneck tour
rubbing alcohol
rubbing away
rubbing block
rubbing off
rubbing out
rubbing stone
rubbing varnish
rubbing-stone
rubbish bin
rubbish heap
rubbish unloader
rubble car
rubble masonry
rubble-work
rube faction
rube town
rubella vaccine
rubicon bezique
rubicon piquet
rubidium-strontium dating
ruby blende
ruby copper
ruby fly
ruby glass
ruby grass
ruby pin
ruby port
ruby red
ruby roller
ruby silver
ruby spaniel
ruby spinel
ruby sulphur
ruby wood
ruby zinc
ruby-berried
ruby-budded
ruby-circled
ruby-colored
ruby-crested
ruby-crowned
ruby-crowned kinglet
ruby-eyed
ruby-faced
ruby-headed
ruby-hued
ruby-lipped
ruby-lustered
ruby-necked
ruby-red
ruby-set
ruby-studded
ruby-throated
ruby-throated hummingbird
ruby-tinctured
ruby-tinted
ruby-toned
ruby-visaged
ruck up
rudder amidships
rudder angle
rudder band
rudder bar
rudder brake
rudder chain
rudder coat
rudder crosshead
rudder fish
rudder horn
rudder pedals
rudder pendant
rudder snug
rudder tackle
rudder torque
rudder-fish
ruddy duck
ruddy-bright
ruddy-brown
ruddy-cheeked
ruddy-colored
ruddy-complexioned
ruddy-faced
ruddy-gold
ruddy-haired
ruddy-headed
ruddy-leaved
ruddy-purple
ruddy-spotted
rude awakening
rude health
rude justice
rude reproach
rude-carved
rude-ensculptured
rude-fanged
rude-fashioned
rude-featured
rude-growing
rude-hewn
rude-looking
rude-made
rude-mannered
rude-spoken
rude-spokenrude-spun
rude-spin
rude-thoughted
rude-tongued
rude-washed
rudge wash
rue anemone
rue bargain
rue fern
rue oil
rue spleenwort
rue the day
ruff-coat
ruff-necked
ruff-tree
ruffed grouse
ruffian-like
ruffle your feathers
ruffle-
ruffle-headed
ruffled feelings
ruffy-tuffy
rufi-
rufo-
rufous-backed
rufous-banded
rufous-bellied
rufous-billed
rufous-breasted
rufous-brown
rufous-buff
rufous-chinned
rufous-colored
rufous-crowned
rufous-edged
rufous-haired
rufous-headed
rufous-hooded
rufous-naped
rufous-necked
rufous-rumped
rufous-spotted
rufous-tailed
rufous-tinged
rule with an iron fist
rule with an iron hand
rule-joint
rulebook slowdown
ruled out
ruled surface
ruled-out
ruler of th' inverted year
ruler-straight
rules committee
rules of conduct
rules of language
rules of war
ruling circle
ruling circles
ruling class
ruling classes
ruling elder
ruling engine
ruling machine
ruling out
ruling passion
ruly English
rum barge
rum blossom
rum cherry
rum essence
rum hound
rum mill
rum one
rum punch
rum ram ruf
rum shrub
rum sucker
rum truffle
rum-bred
rum-crazed
rum-drinking
rum-dum
rum-fired
rum-flavored
rum-hole
rum-mill
rum-nosed
rum-producing
rum-selling
rum-smelling
rumble seat
rumble-bumble
rumble-tumble
ruminate over
rummage out
rummage sale
rumored about
rump bone
rump roast
rump steak
rump-fed
rumpled feathers
rumpus room
run a chance
run a comparison
run a deficit
run a good chance
run a race
run a sample
run a specimen
run a temperature
run a tight ship
run a tilt
run a tilt at
run about
run abreast
run across
run afoul of
run after
run against
run aground
run along
run amok
run amuck
run an experiment
run around
run around with
run at
run at flank speed
run away
run away from
run away with
run back
run before
run before the wind
run before you can walk
run broadside on
run by
run circles around
run counter to
run down
run down the latitude
run down the wind
run dry
run end on
run for
run for it
run for office
run for your life
run for your money
run foul of
run from
run head and head
run head on
run in
run in couples
run in opposition to
run in pursuit of
run in the blood
run in the family
run in the head
run in with
run interference for
run into
run into a brick wall
run into a corner
run into danger
run into debt
run into money
run into port
run into the ground
run its course
run like a scared rabbit
run like mad
run low
run mad
run mad after
run neck and neck
run of luck
run of the cards
run of the mill
run of things
run off
run off at the mouth
run off with
run on
run on in a groove
run on like a mill race
run on the rocks
run out
run out a rope
run out a warp
run out of
run out of patience
run out of steam
run out of time
run out of town
run out on
run over
run parallel
run parallel to
run prow on
run ragged
run rings around
run riot
run scared
run short
run short of
run smack into
run smoothly
run the chance
run the eye over
run the eye through
run the fingers over
run the gauntlet
run the hazard
run the risk
run the show
run through
run to
run to earth
run to seed
run to waste
run together
run true to form
run true to type
run under bare poles
run up
run up a bill
run up a score
run up against
run up an account
run upon
run upon a bank
run wide open
run wild
run with
run with the pack
run with the wind
run with the wind quartering
run you hard
run your eye over
run your head against
run-about
run-around
run-down
run-down neighborhood
run-in
run-of-mill
run-of-mine
run-of-paper
run-of-the-mill
run-of-the-mine
run-on
run-on sentence
run-out
run-over
run-through
run-up
runaround, the
runaway ship
runaway shop
runaway victory
runcible spoon
rune-bearing
rune-inscribed
rune-staff
rune-stave
rune-stone
rung of the ladder
runic alphabet
runic character
runic symbol
runic verse
runner and tackle
runner bean
runner foot
runner peanut
runner stick
runner tackle
runner-up
runners-up
running English
rush through
rush to the assistance of
rush up on one
rush up on you
rush wheat
rush-bearer
rush-bearing
rush-bordered
rush-bottomed
rush-candle
rush-floored
rush-fringed
rush-girt
rush-grown
rush-hour
rush-leaved
rush-like
rush-margined
rush-ring
rush-seated
rush-stemmed
rush-strewn
rush-wove
rush-woven
russel cord
russell's viper
russet coat
russet-backed
russet-bearded
russet-brown
russet-coated
russet-colored
russet-golden
russet-green
russet-pated
russet-robed
russet-roofed
russia leather
russian blue
russian olive
russian thistle
russian wolfhound
russo-
rust brown
rust bucket
rust cement
rust coat
rust fungus
rust joint
rust mite
rust of antiquity
rust together
rust-cankered
rust-colored
rust-complexioned
rust-eaten
rust-preventing
rust-proofed
rust-red
rust-removing
rust-resisting
rust-stained
rust-worn
rust-yellow
rustic region
rustic style
rustic work
rustle up
rursts smuts
rusty black
rusty blackbird
rusty dab
rusty gum
rusty-branched
rusty-brown
rusty-coated
rusty-collared
rusty-colored
rusty-crowned
rusty-dusty
rusty-fusty
rusty-leaved
rusty-looking
rusty-red
rusty-rested
rusty-spotted
rusty-throated
ruthenium oxide
ruthenium red
rutherford atom
rye bread
rye grass
rye rust
rye smut
rye whiskey
rye whisky
rye-bread
rye-brome
rye-grass
spray
spoil
stilt
s'il vous plaît
s'il vous plait
sable antelope
sable iron
sable night
sable-bordered
sable-cinctured
sable-cloaked
sable-colored
sable-hooded
sable-lettered
sable-robed
sable-spotted
sable-stoled
sable-suited
sable-vested
sable-vested Night
sable-visaged
sabre-toothed tiger
sabicu wood
sac de nuit
sac fungus
sac-a-lait
sac-wrist
sacchar-
saccharic acid
saccharifying enzyme
saccharin insoluble
saccharin sodium
saccharine sorghum
saccharo-
saccharolactic acid
sacer vates
sachet powder
sack baler
sack baling
sack beater
sack borer
sack carrier
sack checker
sack cleaner
sack cloud
sack coal
sack coat
sack collector
sack cutter
sack doubler
sack dress
sack duty
sack elevator
sack emptier
sack examiner
sack hand
sack hoist
sack holder
sack lifter
sack machinist
sack maker
sack mender
sack moth
sack out
sack packer
sack printer
sack race
sack racer
sack racing
sack repairer
sack running
sack searcher
sack sewer
sack shaker
sack shoot
sack sorter
sack store
sack suit
sack superintendent
sack tackle
sack the
sack time
sack tree
sack up
sack weight
sack-bearer
sack-coated
sack-formed
sack-sailed
sack-shaped
sack-winged
sackcloth and ashes
sacking needle
sacr-
sacra peregrina
sacrament chapel
sacrament cloth
sacrament house
sacrament of matrimony
sacramental anointment
sacramental offering
sacramental wine
sacred Nine
sacred anchor
sacred article
sacred baboon
sacred bamboo
sacred calling
sacred canon
sacred cow
sacred ibis
sacred lotus
sacred mushroom
sacred music
sacred orders
sacred quality
sacred relics
sacred thread
sacred unction
sacred writings
sacred, the
sacred-bean family
sacrifice bunt
sacrifice fly
sacrifice hit
sacrifice yourself for
sacrificial anode
sacring bell
sacring-bell
sacro-
sacro-uterine
sad cake
sad case
sad disappointment
sad of heart
sad person
sad sack
sad sack of shit
sad times
sad tree
sad work
sad-a-vised
sad-colored
sad-eyed
sad-faced
sad-iron
sad-looking
sad-natured
sad-paced
sad-seeming
sad-tuned
sad-voiced
saddle band
saddle bar
saddle blanket
saddle block
saddle boiler
saddle bracket
saddle carpenter
saddle case
saddle chimes
saddle clip
saddle crutch
saddle currier
saddle cutter
saddle feathers
saddle fitter
saddle flap
saddle fungus
saddle gail
saddle girth
saddle glacier
saddle grafting
saddle gun
saddle hackle
saddle hand
saddle hip
saddle horn
saddle horse
saddle house
saddle hub
saddle iron
saddle joint
saddle key
saddle lap
saddle lashing
saddle leather
saddle maker
saddle making
saddle mat
saddle nail
saddle of mutton
saddle on
saddle ox
saddle oxford
saddle oyster
saddle pad
saddle pile
saddle piling
saddle pin
saddle pistol
saddle plant
saddle plate
saddle pocket
saddle point
saddle pommel
saddle press
saddle rack
saddle reef
saddle rock
saddle roof
saddle room
saddle rug
saddle seam
saddle seamer
saddle seat
saddle shell
saddle shoe
safe district
safe edge
safe finisher
safe fitter
safe hands
safe haven
safe lifter
safe lock
safe maker
safe painter
safe period
safe stuffer
safe-bestowed
safe-blower
safe-borne
safe-breaker
safe-conduct
safe-cracker
safe-deposit
safe-deposit box
safe-deposit vault
safe-edge file
safe-hidden
safe-hold
safe-keeping
safe-marching
safe-moored
safe-sequestered
safe-time
safeguarding duty
safety arch
safety belt
safety bicycle
safety bolt
safety buoy
safety cage
safety car
safety catch
safety chain
safety clause
safety control
safety curtain
safety disk
safety dog
safety edge
safety equipment
safety explosive
safety factor
safety film
safety first
safety funnel tube
safety fuse
safety fuze
safety glass
safety hanger
safety hoist
safety hook
safety island
safety isle
safety lamp
safety lift
safety link
safety lintel
safety lock
safety loop
safety man
safety match
safety nut
safety paper
safety pin
safety pinion
safety plug
safety rail
safety razor
safety roller
safety setscrew
safety shoes
safety spring
safety squeeze
safety squeeze play
safety stop
safety switch
safety switchboard
safety tire
safety tube
safety valve
safety wire
safety zone
safety-deposit
safety-deposit box
safety-deposit vault
safety-fund system
safety-pin
safety-valve
safflower carmine
safflower oil
sago fern
sago flour
sago grass
sago palm
sago plant
sago spleen
sago tree
sahuca bean
sail against the wind
sail arm
sail away
sail away from
sail before the wind
sail burton
sail by the wind
sail canvas
sail carrier
sail close to the wind
sail close-hauled
sail closer to the wind
sail coast-wise
sail down the wind
sail drill
sail duck
sail fine
sail fluke
sail for
sail free
sail full and by
sail furler
sail gang
sail grommet
sail ho
sail hook
sail hoop
sail in the teeth of the wind
sail in the wind's eye
sail into
sail into the wind's eye
sail keeper
sail lizard
sail loft
sail model
sail near the wind
sail needle
sail netting
sail off the wind
sail on the wind
sail packet
sail part
sail plan
sail pulley
sail room
sail rope
sail round
sail sewer
sail sewing
sail the ocean blue
sail the sea
sail thimble
sail thread
sail to the windward of
sail to windward
sail too close to the wind
sail too near the wind
sail trimmer
sail twine
sail under false colors
sail with the wind
sail with the wind aft
sail with the wind quartering
sail yard
sail-bearing
sail-borne
sail-broad
sail-carrying
sail-dotted
sail-filling
sail-over
sail-propelled
sail-stretched
sail-winged
sailfin sculpin
sailing aid
sailing auxiliary
sailing barge
sailing boat
sailing canoe
sailing car
sailing cruiser
sailing day
sailing dinghy
sailing instructions
sailing launch
sailing master
sailing match
sailing orders
sailing packet
sailing ship
sailing sucker
sailing trawler
sailing trim
sailing vessel
sailing vessels
sailing yacht
sailmaker's needle
sailmaker's palm
sailor blue
sailor boy
sailor cap
sailor fish
sailor gang
sailor hat
sailor helmsman
sailor laborer
sailor lad
sailor phrase
sailor plant
sailor suit
sailor tie
sailor's breastplate
sailor's choice
sailor's knot
sailor's-choice
sailor-fashion
sailor-fisherman
sailor-looking
sailor-mind
sailor-poet
sailor-soul
sailor-train
sailors' snug harbor
saint agnes's eve
saint andrew's cross
saint anthony's cross
saint anthony's fire
saint bernard
saint elmo's fire
saint louis encephalitis
saint maker
saint making
saint martin's summer
saint valentine's day
saint's day
saint's legend
saint-errant
saint-errantry
saint-john's-wort
saker falcon
sal alembroth
sal ammoniac
sal armoniac
sal soda
sal tartari
sal tree
sal volatile
sal-ammoniac
sal-prunella
salaam aleikum
salad bowl
salad burnet
salad course
salad days
salad dish
salad dressing
salad fork
salad herb
salad nicoise
salad oil
salad plate
salad rocket
salad server
salad spoon
salad tree
salai tree
salamander stove
salaried worker
salary deduction
salary savings insurance
sale and leaseback
sale at auction
sale block
sale by auction
sale note
sale price
sale to the highest bidder
sale-over
saleratus weed
sales account
sales agency
sales agent
sales book
sales campaign
sales check
sales engineer
sales floor
sales force
sales journal
sales ledger
sales manager
sales note
sales personnel
sales pitch
sales promotion
sales register
sales resistance
sales talk
sales tax
salfern stoneseed
sali-
salic law
salicyl alcohol glucoside
salicylic acid
salicylic aldehyde
salient angle
salient fact
salient point
salino-
salisbury steak
salivary digestion
salivary gland
salivary glands
salivary secretion
salk vaccine
salle a manger
salle d'armes
salle d'attente
salle de danse
sallee-man
sallow-cheeked
sallow-colored
sallow-complexioned
sallow-faced
sallow-looking
sallow-visaged
sally forth
sally lunn
sally picker
sally port
salmon brick
salmon cloud
salmon color
salmon disease
salmon family
salmon fisher
salmon fisherman
salmon fishery
salmon fishing
salmon fly
salmon hatchery
salmon herring
salmon ladder
salmon loaf
salmon oil
salmon peal
salmon pink
salmon river
salmon rod
salmon smelt
salmon spear
salmon spearing
salmon steak
salmon tail
salmon trout
salmon wheel
salmon-breeding
salmon-colored
salmon-haunted
salmon-pink
salmon-rearing
salmon-red
salmon-tinted
salmon-trout
salon de beaute
salon music
saloon bar
saloon car
saloon carriage
saloon deck
saloon keeper
saloon pistol
salping-
salpingo-
salpingo-oophorectomy
salpingo-oophoritis
salpingo-ovariotomy
salpingo-ovaritis
salpingo-ureterostomy
salt a mine
salt acid
salt and pepper beard
salt and pepper hair
salt away
salt barrel
salt bed
salt beef
salt block
salt bottom
salt box
salt brig
salt cake
salt cedar
salt chrome
salt coffer
salt conveyer
salt crusher
salt crystal
salt dome
salt down
salt drawer
salt dryer
salt duty
salt eel
salt elevator
salt evaporator
salt filler
salt filter
salt fireman
salt firm
salt fish
salt flat
salt furnace
salt garden
salt gauge
salt glaze
salt glazing
salt grainer
salt grape
salt grass
salt grinder
salt hay
salt heaver
salt holder
salt horse
salt in the wound
salt junk
salt kettle
salt lake
salt lick
salt loader
salt lump
salt maker
salt marsh
salt master
salt millman
salt mine
salt miner
salt of phosphorus
salt of sorrel
salt of the earth
salt out
salt pack
salt pan
salt pansmith
salt pit
salt plug
salt pocket
salt pond
salt pork
salt prairie
salt press
salt rammer
salt reed grass
salt refiner
salt rheum
salt room
salt screen
salt sea
salt seller
salt shaker
salt shop
salt shovel
salt soda
salt something away
salt spoon
salt spring
salt stain
salt stick
salt tax
salt tree
salt trimmer
salt trough
salt vase
salt washer
salt water
salt well
salt yard
salt-and-pepper
salt-box
salt-box house
salt-cat
salt-cellar
salt-cured
salt-edged
salt-free diet
salt-glazed
salt-glazed ware
salt-green
salt-hard
salt-incrusted
salt-laden
salt-loving
salt-marsh aster
salt-marsh caterpillar
salt-marsh fleabane
salt-marsh gerardia
salt-marsh goldenrod
salt-marsh grass
salt-marsh hen
salt-marsh mosquito
salt-marsh moth
salt-marsh terrapin
salt-meadow grass
salt-pan
salt-rheum weed
salt-rising
salt-rising bread
salt-spilling
salt-watery
salt-white
salted peanuts
salting bath
salting box
salting house
salting kit
salting pan
salting press
salting room
salting trough
salting tub
saltpeter paper
saltpeter rot
saltwater sailor
saltwater taffy
saltwort family
salus populi suprema lex esto
salutatory address
salute with
saluto dor
saluto doro
salvage corps
salvage man
salvation army
salve bug
salve mull
salver-shaped
salvia blue
salvinia family
salvo point
sam browne
sam browne belt
sam-sodden
samadera bark
same but different
same here
same mind
same old story
same, the
same-colored
same-featured
same-minded
same-seeming
same-sized
same-sounding
sample ballot
sample book
sample bottle
sample box
sample boy
sample cabinet
sample card
sample carrier
sample case
sample catcher
sample cutter
sample drawer
sample driller
sample envelope
sample holder
sample maker
sample making
sample ore
sample passer
sample phial
sample picker
sample point
sample porter
sample roll
sample room
sample space
sample tester
sample trunk
sample vial
sampling inspection
sampling shovel
samson post
samson's post
san benito
san jacinto day
san jose scale
san-gaku
sancho panza
sancho pedro
sancte bell
sanctimonious fraud
sanction mark
sanctioned behavior
sanctioned conduct
sanctuary knocker
sanctuary ring
sanctum sanctorum
sanctus bell
sanctus turret
sand anchor
sand badger
sand bar
sand bath
sand bear
sand bellows
sand belt
sand binder
sand bird
sand blackberry
sand blaster
sand blindness
sand block
sand blower
sand bluestem
sand fox
sand gall
sand grape
sand grass
sand grouse
sand hill
sand hog
sand hoist
sand hole
sand hopper
sand hornet
sand in the eyes
sand jack
sand jet
sand lance
sand lark
sand launce
sand leek
sand lily
sand line
sand lizard
sand lob
sand lotter
sand martin
sand mason
sand mist
sand mixer
sand mold
sand molding
sand mole
sand monitor
sand mouse
sand mullet
sand myrtle
sand nettle
sand oat
sand pail
sand painter
sand painting
sand partridge
sand pear
sand phlox
sand pig
sand pigeon
sand pike
sand pile
sand pillar
sand pine
sand pipe
sand pit
sand plain
sand plover
sand plum
sand prey
sand pride
sand pump
sand rat
sand reed
sand reef
sand reel
sand rocket
sand roll
sand roller
sand runner
sand saucer
sand scoop
sand screw
sand sedge
sand shark
sand shell
sand shoe
sand skink
sand skipper
sand smelt
sand snake
sand snipe
sand spout
sand spurry
sand squeteague
sand star
sand stargazer
sand strake
sand sucker
sand swallow
sand table
sand tester
sand tiger
sand trap
sand trout
sand tube
sand verbena
sand vetch
sand vine
sand violet
sand viper
sand walk
sandarac tree
sandbeach grape
sandbox tree
sanders blue
sandhill crane
sandging machine
sandpaper fig
sandpaper starwort
sandpaper tree
sands of the sea
sands of time
sandwich batten
sandwich beam
sandwich board
sandwich boy
sandwich cake
sandwich coin
sandwich compound
sandwich course
sandwich girder
sandwich man
sandwich shop
sandwich tern
sandy blight
sandy loam
sandy-bearded
sandy-bottomed
sandy-colored
sandy-flaxen
sandy-haired
sandy-pated
sandy-red
sandy-rufous
sane-minded
sang de bouf
sang-de-bœuf
sang-dragon
sang-froid
sanga-sanga
sanguinary ant
sanguine expectation
sanguine humor
sanguine-complexioned
sanitary belt
sanitary cordon
sanitary engineer
sanitary engineering
sanitary napkin
sanitary towel
sanitation-proof
sans appel
sans ceremonie
sans doute
sans facon
sans pareil
sans peur et sans reproche
sans reproche
sans serif
sans souci
sans-culotte
sans-culotterie
sans-culottic
sans-culottid
sans-culottide
sans-culottides
sans-culottish
sans-culottism
sans-culottist
sans-culottize
sans-serif
sant tree
santa claus
santa gertrudis
santal oil
santalwood oil
sanwa millet
sap cavity
sap chafer
sap fagot
sap flow
sap green
sap gum
sap pine
sap roller
sap rot
sap shield
sap stain
sap the foundations
sap the foundations of
sap the strength of
sap tree
sap tube
sap-green
sap-wood
sapele mahogany
saphenous vein
sapling cup
sapodilla family
sapodilla plum
saponification number
saponification value
sapota gum
sapper and miner
sapphire blue
sapphire-blue
sapphire-colored
sapphire-hued
sapphire-visaged
sappy spot
sap-
sapro-
sapta-matri
sapucaia nut
sapucaia-nut family
sapwood rot
saratoga trunk
sarc-
sarco-
sarcoptic mange
sardine box
sardine can
sardine factory
sardine fishery
sardine oil
sardine shears
sardine tongs
sardonic grin
sargasso weed
sargassum crab
sargassum fish
sargassum pipefish
sargassum shell
sarsen stone
saru-gaku
sarus crane
sash bar
sash chain
sash cord
sash curtain
sash fast
sash fillister
sash holder
sash house
sash line
sash lock
sash maker
sash making
sash plane
sash pocket
sash ribbon
sash saw
sash ventilation
sash weight
sash window
sash-window
sashay along
sashay off
sassa gum
sassafras laurel
sassafras medulla
sassafras nut
sassafras oil
sassafras pith
sassafras tea
sassy bark
satan monkey
satanic cunning
satchel charge
satellite DNA
satellite relay
satellite sphinx
satellite status
satem language
satin bird
satin bowerbird
satin cloth
satin glass
satin grass
satin moth
satin sheeting
satin spar
satin sparrow
satin stitch
satin stone
satin sultan
satin walnut
satin weave
satin white
satin-backed
satin-faced
satin-finished
satin-flower
satin-leaved
satin-lidded
satin-lined
satin-shining
satin-smooth
satin-striped
satin-worked
satiric humor
satiric wit
satirical novel
satirical poetry
satisfaction piece
satisfactory amount
satisfy requirements
satisfy your obligations
satisfy yourself
satisfy yourself on that point
saturated fat
saturated liquid
saturated vapor
saturating oil
saturation bombing
saturation current
saturation curve
saturation factor
saturation level
saturation point
saturation pressure
saturation raid
saturnalia of blood
satyr butterfly
satyr orchid
satyr play
sauba ant
sauce boat
sauce espagnole
sauce-alone
sauce-boat
sauce-crayon
saucer dome
saucer eye
saucer eyes
saucer lake
saucer-eyed
saucer-shaped
sauna bath
saunce bell
saunders blue
save your neck
save your skin
save yourself
save-all
saved by the bell
saved soul
savin oil
savin-leaved
saving clause
saving grace
saving your reverence
savings account
savings and loan association
savings bank
savings bank life insurance
savings bond
savings insurance
savings stamp
savoir faire
savoir vivre
savoir-faire
savoir-vivre
savor of
savor of wit
savoring of
savory-leaved
savory-leaved aster
savoy cabbage
saw arbor
saw bearing
saw bench
saw bill
saw bit
saw blade
saw brier
saw cabbage palm
saw carriage
saw clamp
saw cut
saw driver
saw fern
saw file
saw file temper
saw filer
saw filing
saw gate
saw gin
saw grass
sawdust trail
sawed-off
sawed-off shotgun
sawing block
sawing stop
sawn-off
sawtooth roof
sawyer beetle
sax-horn
saxe blue
saxicava sand
saxifrage family
saxifrage pink
say 'amen' to
say 'ditto' to
say 'no'
say 'yes' to
say a good word for
say a word to the wise
say again
say amen to
say aside
say aye
say by the way
say cast
say farewell
say good-bye
say goodbye to
say grace
say hello
say in defense
say in reply
say nay
say neither yes nor no
say no
say no to
say nothing
say one's say
say out
say over
say over again
say over and over
say something nice about
say that all is for the best
say the word
say to yourself
say uncle
say what comes uppermost
scale modulus
scale moss
scale off
scale passage
scale pipette
scale plan
scale plate
scale quail
scale reading
scale rule
scale selling
scale singing
scale stair
scale stone
scale the heights
scale the walls
scale wax
scale worm
scale-bearing
scale-board
scale-bright
scale-down
scale-tailed
scale-up
scaled partridge
scaled quail
scaled-down
scalene triangle
scalenus anterior
scalenus medius
scalenus posterior
scales of justice
scaling circuit
scaling down
scaling ladder
scaling-ladder
scallop budding
scallop-shell
scallop-shell moth
scallop-edged
scalp dance
scalp lock
scalping boots
scalping iron
scalping-knife
scaly anteater
scaly mistletoe
scaly spleenwort
scarce-cold
scarce-covered
scarce-discerned
scarce-found
scarce-heard
scarce-met
scarce-moving
scarce-parted
scarce-seen
scarce-told
scarce-warned
scarceely any
scarceely anything
scarceely ever
scarceely heard
scarceely like
scarceely to be anticipated
scarceely to be expected
scarcer than hen's teeth
scarcity price
scare away
scare bullfinch
scare goose
scare hell out of
scare off
scare one spitless
scare one stiff
scare shitless
scare stiff
scare the life out of
scare the pants off of
scare the shit out of
scare to death
scare up
scare-bear
scare-beggar
scare-bird
scare-devil
scare-fire
scare-fish
scare-fly
scare-hawk
scare-hog
scare-mouse
scare-peddler
scare-robin
scare-sheep
scare-sinner
scare-sleep
scare-thief
scare-vermin
scared rabbit
scared shitless
scared stiff
scared to death
scaredy-cat
scarf cloud
scarf joint
scarf maker
scarf making
scarf weld
scarf-skin
scarfed joint
scaring off
scarlet bugler
scarlet clematis
scarlet eggplant
scarlet fever
scarlet hat
scarlet larkspur
scarlet letter
scarlet lightning
scarlet lobelia
scarlet lychnis
scarlet madder
scarlet monkey flower
scarlet ocher
scarlet pimpernel
scarlet plume
scarlet runner
scarlet runners
scarlet sage
scarlet tanager
scarlet woman
scarlet-ariled
scarlet-barred
scarlet-berried
scarlet-blossomed
scarlet-breasted
scarlet-circled
scarlet-clad
scarlet-coated
scarlet-colored
scarlet-crested
scarlet-day
scarlet-faced
scarlet-flowered
scarlet-fruited
scarlet-gowned
scarlet-haired
scarlet-lined
scarlet-lipped
scarlet-red
scarlet-robbed
scarlet-tipped
scarlet-vermillion
scarp wall
scarp joint
scat singing
scat-
scato-
scatological literature
scatter diagram
scatter pin
scatter pins
scatter rug
scatter seed
scatter shot
scatter to the winds
scatter-brain
scatter-brained
scatter-gun
scaup duck
scaup-duck
scavenger beetle
scavenger hunt
scavenger's daughter
scenario writer
scene cloth
scene dock
scene master
scene of action
scene pack
scene painter
scene painting
scene plot
scene-stealer
scenery wagon
scenic artist
scenic railway
scenic view
scent article
scent bag
scent ball
school author
school badge
school bass
school bell
school bench
school board
school brush
school building
school bus
school case
school chalk
school chapel
school chart
school child
school chum
school clamp
school clerk
school clock
school commissioner
school committee
school companion
school crayon
school day
school desk
school dictionary
school district
school divine
school divinity
school doctor
school door
school drilling
school edition
school emblem
school equipment
school ethics
school exercise
school fee
school for the handicapped
school friendship
school furniture
school garden
school globe
school grade
school grammar
school hour
school inspector
school kid
school lad
school land
school language
school library
school life
school locker
school logic
school manager
school manner
school map
school matter
school medicine
school model
school moralist
school morality
school name
school nurse
school of architecture
school of art
school of arts and crafts
school of communications
school of continuing education
school of design
school of drama
school of dramatic arts
school of education
school of fine arts
school of graphic arts
school of philosophy
school of the performing arts
school of thought
school officer
school omnibus
school opinion
school organ
school pad
school paper
school pedantry
school pence
school philosopher
school philosophy
school phrase
school playground
school porter
school prank
school principal
school prize
school publication
school publisher
school-bred
school-house
school-leaving
school-made
school-magisterial
school-taught
school-trained
schools and movements
schools of
schooner bark
schooner ketch
schooner rig
schooner-rigged
schorl-granite
schorl-rock
schreiner finish
sci-fi
sciara army worm
sciatic artery
sciatic foramen
sciatic neuritis
science dictionary
science fiction
science in the flesh
science of being
science of discursive thought
science of human behavior
science of language
science of man
science of mind
science of the mind
science of war
science-fiction novel
scientia est potentia
scientia scientiarum
scientific education
scientific exactness
scientific humanism
scientific management
scientific method
scientific name
scientific socialism
scientifically exact
scimitar foot
scimitar-shaped
scintillation counter
scintillation spectrometer
scire facias
scissor blade
scissor case
scissor chain
scissor kick
scissor maker
scissor making
scissor screw
scissor sharpener
scissor tooth
scissor-fashion
scissor-grinder
scissor-legs
scissor-tailed
scissor-winged
scissors blade
scissors case
scissors chain
scissors chair
scissors fault
scissors hardener
scissors kick
scissors maker
scissors making
scissors pipe
scissors sharpener
scissors truss
scissors worker
scissors-fashion
scissors-grinder
scissors-shaped
scissors-smith
scler-
sclero-
sclero-oophoritis
sclero-optic
sclerosing inflammation
sclerotium disease
scoff at
scofinson arch
scold's bridle
scolding bridle
scolding stool
scolding winds
sconcheon arch
scone cap
scoop bonnet
scoop driver
scoop neck
scoop neckline
scoop net
scoop out
scoop seat
scoop shovel
scoop the market
scoop wheel
scoop, the
scoop-net
scope of mind
scope of vision
scopol-
scops owl
scorched earth
scorched earth policy
scorched-earth tactics
scorching hot
score a breakthrough
score a bull's eye
score a success
score card
score off
score playing
score sheet
score up
scorn to accept
scorn to receive
scornful laugh
scornful smile
scorpion broom
scorpion bug
scorpion fish
scorpion fly
scorpion grass
scorpion iris
scorpion lobster
scorpion mouse
scorpion oil
scorpion plant
scorpion senna
scorpion shell
scorpion spider
scorpion thorn
scot and lot
scot-free
scotch broth
scotch cap
scotch roman
scotch terrier
scotch verdict
scotch whisky
scotch woodcock
scotch your wheel
scotch-hopper
scotch-irish
scotch-tape
scotch-taped
scotch-taping
scotland yard
scoto-
scottish gaelic
scottish rite
scottish terrier
scour out
scour the country
scourge top
scouring ball
scouring barrel
scouring cinder
scouring out
scouring pad
scouring rush
scouring stock
scout around
scout at
scout badge
scout boat
scout camp
scout car
scout commissioner
scout cruiser
scout executive
scout law
scout motto
scout oath
scout out
scout patrol
scout plane
scout salute
scout ship
scout sign
scout staff
scout training
scout vessel
scouting plane
scove kiln
scr-
scrabble up
scrabble your way up
scrag end
scrag whale
scram hand
scram-handed
scramble for
scramble up
scrambled eggs
scrap basket
scrap box
scrap heap
scrap iron
scrap log
scrap paper
scrap pudding
scrap rubber
scrap the plan
scrap value
scrap-book
scrap-heap
scrape acquaintance with
scrape along
scrape and save
scrape in
scrape into
scrape off
scrape out
scrape through
scrape together
scrape together or up
scrape up
scrape-finished
scrape-gut
scrape-shoe
scrape-trencher
scrapper conveyer
scrapper mat
scrapper plane
scrapper ring
scrappy con
scratch awl
scratch brusher
scratch carving
scratch coat
scratch comma
scratch cradle
scratch division
scratch each other's back
scratch feed
scratch figure
scratch gauge
scratch grass
scratch hit
scratch line
scratch out
scratch pad
scratch paper
scratch player
scratch sheet
scratch test
scratch the surface
scratch together or up
scratch wig
scratch-brush
scratch-coated
scratch-pad
scratch-penny
scratching post
scratching shed
scrawny horse
scream defiance
scream therapy
screaming color
screaming meemies, the
screaming-meemies
screech hawk
screech martin
screech owl
screech-owl
screen boy
screen door
screen facade
screen gate
screen grid
screen maker
screen making
screen memory
screen out
screen pass
screen plate
screen process
screen test
screen, the
screen-faced
screen-grid tube
screen-grid voltage
screen-plate process
screen-test
screen-wall counter
screen-wiper
screening constant
screening effect
screw alley
screw anchor
screw arbor
screw around
screw auger
screw axis
screw back
screw bean
screw bell
screw blower
screw bolt
screw box
screw bunter
screw cap
screw chain
screw collar
screw conveyer
screw conveyor
screw coupling
screw driver
screw eye
screw fern
screw gear
screw gearing
screw hook
screw jack
screw joint
screw key
screw machine
screw machinery
screw maker
screw making
screw mill
screw mooring
screw mouth
screw nail
screw nut
screw palm
screw peg
screw pile
screw piling
screw pine
screw plate
screw plug
screw pod
screw post
screw press
screw propeller
screw pump
screw punch
screw rivet
screw shell
screw shot
screw smile
screw spanner
screw spike
screw stair
screw stake
screw stay
screw steamer
screw stock
screw stone
screw stud
screw surface
screw tap
screw thread
screw tool
screw tree
screw up
screw up the eyes
screw up the works
screw up your courage
screw up your face
screw up your nerve
screw wedge
screw wheel
screw wrench
screw-back
screw-bound
screw-capped
screw-chasing
screw-clamped
screw-cutting
screw-cutting lathe
screw-down
screw-driven
screw-eyed
screw-geared
screw-lifted
screw-piled
screw-pin
screw-pine
screw-pine family
screw-pitch
screw-pitch gauge
screw-pod mesquite
screw-propelled
screw-shaped
screw-slotting
screw-stoppered
screw-thread fit
screw-thread tolerance
screw-threaded
screw-topped
screw-torn
screw-turned
screw-turning
screw-up
screwed up
screwed-up
screwing around
screwing machine
scribble-scrabble
scribbling block
scribbling lark
scribe saw
scribes and Pharisees
scribing block
scribing compass
scribing gouge
scribing iron
scrieve board
scrimmage line
scrimp rail
scrimping bar
scrip certificate
scrip dividend
scrip issue
scrip-scrap
script girl
script lichen
script reader
script-writer
scritch-owl
scritch-scratch
scritch-scratching
scrubbing out
scrubbing up
scrubbing-brush
scrum half
scrutinize comparatively
scrutiny-proof
scuba diver
scuba diving
scuff plate
scuffle hoe
scullery maid
sculling oar
sculpting tool
sculptor's wax
sculptured glass
sculptured piece
scum of society
scum of the earth
scupper pipe
scupper shoot
scurvy grass
scurvy trick
scut work
scutch cane
scutch grass
scutching tow
scutellum rot
scuttle butt
scyphi-
scypho-
scythe maker
scythe making
scythe of Death
scythe of Time
scythe-armed
scythe-bearing
scythe-leaved
scythe-shaped
se defendendo
se tenant
se-
se-baptism
se-baptist
sea acorn
sea adder
sea air
sea anchor
sea anemone
sea anemones
sea ape
sea apple
sea apron
sea arrow grass
sea ash
sea aster
sea bag
sea bank
sea basket
sea bass
sea bat
sea bean
sea bear
sea beef
sea beet
sea bells
sea belt
sea bent
sea bindweed
sea bird
sea biscuit
sea bladder
sea blite
sea bloom
sea blossom
sea blubber
sea blue
sea boat
sea boots
sea bottle
sea boy
sea brant
sea breach
sea bread
sea bream
sea breeze
sea brief
sea buckthorn
sea bugloss
sea burdock
sea bush
sea butterfly
sea cabbage
sea cabin
sea calf
sea campion
sea captain
sea dove
sea dragon
sea drake
sea duck
sea dust
sea duty
sea eagle
sea ear
sea eel
sea egg
sea elephant
sea endive
sea fan
sea feather
sea fee
sea fennel
sea fern
sea fig
sea fight
sea fir
sea fire
sea fish
sea fisher
sea fisherman
sea fishery
sea fishing
sea flea
sea foalfoot
sea foam
sea fog
sea food
sea fox
sea fret
sea front
sea frontage
sea froth
sea furbelow
sea gasket
sea gate
sea gauge
sea gillyflower
sea girdle
sea god
sea gods
sea goose
sea gooseberry
sea goosefoot
sea gown
sea grape
sea grass
sea grass wrack
sea green
sea gromwell
sea gudgeon
sea gull
sea gypsy
sea hanger
sea hare
sea hawk
sea hay
sea heath
sea hedgehog
sea hen
sea herdsman
sea herring
sea hog
sea holly
sea hollyhock
sea holm
sea horse
sea hulver
sea ice
sea island
sea island cotton
sea kale
sea kelps
sea kidney
sea king
sea kittie
sea lace
sea ladder
sea lamprey
sea lane
sea language
sea lark
sea laurel
sea lavender
sea law
sea lawyer
sea league
sea leather
sea legs
sea lemon
sea lentil
sea leopard
sea letter
sea lettuce
sea level
sea light
sea lily
sea line
sea lion
sea lizard
sea loach
sea louse
sea lovage
sea luce
sea lungs
sea lungwort
sea lyme grass
sea magpie
sea mail
sea mallow
sea mantis
sea margin
sea marigold
sea mat
sea matweed
sea meadow
sea membrane
sea mew
sea mile
sea milkwort
sea mink
sea mist
sea monk
sea monster
sea moss
sea moth
sea mouse
sea mud
sea mugwort
sea mulberry
sea mule
sea mullet
sea necklace
sea nettle
sea nymph
sea oak
sea oat
sea of flames
sea of grass
sea of troubles
sea officer
sea onion
sea ooze
sea orach
sea orange
sea ore
sea otter
sea owl
sea oxeye
sea palm
sea panther
sea park
sea parrot
sea parsley
sea parsnip
sea partridge
sea pass
sea pay
sea pea
sea peach
sea pear
sea peat
sea pen
sea perch
sea perils
sea pheasant
sea pie
sea piet
sea pig
sea pigeon
sea pike
sea pimpernel
sea pincushion
sea pine
sea pink
sea plain
sea plantain
sea plume
sea poacher
sea poker
sea poppy
sea porcupine
sea post
sea post office
sea potato
sea power
sea preacher
sea pumpkin
sea purse
sea soldier
sea soldiers
sea spear grass
sea spider
sea spirit
sea spleenwort
sea squill
sea squirt
sea stack
sea staff
sea staghorn
sea star
sea starwort
sea steps
sea stickleback
sea stores
sea sulphurweed
sea surgeon
sea swallow
sea swine
sea tangle
sea term
sea thief
sea thong
sea thrift
sea time
sea titling
sea toad
sea tortoise
sea town
sea train
sea travel
sea tree
sea trip
sea trout
sea trumpet
sea turn
sea turnip
sea turtle
sea twine
sea unicorn
sea urchin
sea valve
sea vampire
sea wall
sea walnut
sea wand
sea warfare
sea water
sea wax
sea wheat
sea whip
sea whipcord
sea whiplash
sea whistle
sea widgeon
sea willow
sea withwind
sea wolf
sea woodcock
sea worm
sea wormwood
sea wrack
sea-bank
sea-bathed
sea-bean
sea-beast
sea-beat
sea-beaten
sea-bird
sea-boat
sea-born
sea-borne
sea-bounded
sea-bounding
sea-bred
sea-breeze
sea-broke
sea-built
sea-calf
sea-captain
sea-card
sea-circled
sea-cliff
sea-coal
sea-coast
sea-cock
sea-compelling
sea-convulsing
sea-cow
sea-cut
sea-deep
sea-deserted
sea-devil
sea-divided
sea-dog
sea-line
sea-lion
sea-lost
sea-louse
sea-loving
sea-maid
sea-maiden
sea-mark
sea-monk
sea-monster
sea-mouse
sea-nymph
sea-otter
sea-otter's-cabbage
sea-packed
sea-parrot
sea-pie
sea-piece
sea-pike
sea-pink
sea-plane
sea-poacher
sea-potent
sea-purse
sea-quake
sea-racing
sea-raven
sea-robin
sea-room
sea-rounded
sea-rover
sea-roving
sea-run
sea-running
sea-sailing
sea-salt
sea-sand
sea-saw
sea-scape
sea-scented
sea-scourged
sea-serpent
sea-service
sea-shell
sea-shore
sea-shouldering
sea-sick
sea-side
sea-slug
sea-snail
sea-snake
sea-snipe
sea-spider
sea-star
sea-surrounded
sea-swallow
sea-swallowed
sea-torn
sea-tossed
sea-tost
sea-traveling
sea-trout
sea-urchin
sea-wall
sea-walled
sea-wandering
sea-ware
sea-washed
sea-water
sea-water green
sea-way
sea-weary
sea-wide
sea-wildered
sea-wolf
sea-wrack
sea-wrecked
seabeach morning-glory
seabeach sandwort
seacoast angelica
seacoast laburnum
seafaring man
seakale beet
seal brown
seal character
seal coat
seal cutter
seal cutting
seal cylinder
seal fisher
seal fisherman
seal fishery
seal fishing
seal hole
seal lock
seal maker
seal making
seal of approval
seal of confession
seal of secrecy
seal off
seal oil
seal point
seal press
seal ring
seal the doom of
seal up
seal your infamy
seal your lips
seal-brown
seal-point
sealed book
sealed move
sealed off
sealed orders
sealed-beam
sealing hole
sealing nut
sealing off
sealing tape
sealing wax
sealing-wax
sealyham terrier
seam blasting
seam face
seam lace
seam presser
seam roller
seam set
seam stitch
seam strip
seam weld
seam welding
seam-rent
seam-ripped
seam-ript
seaman apprentice
seaman branch
seaman gunner
seaman recruit
seaming dies
seaming lace
seamless stockings
seamy-sided
seaplane carrier
sear pin
search coil
search ephemeris
search for
search high heaven
search into
search lamp
search me
search mission
search out
search party
search plane
search radar
search room
search thoroughly
search through
search warrant
search your motives
search your soul
search-and-destroy mission
search-and-destroy operation
searching investigation
searchlight lantern
seared conscience
seashell pink
seashore heliotrope
seashore pea
seaside alder
seaside arrowgrass
seaside aster
seaside balsam
seaside bean
seaside bent
seaside brome grass
seaside crowfoot
seaside daisy
seaside finch
seaside gerardia
seaside goldenrod
seaside grape
seaside heliotrope
seaside knotweed
seaside laurel
seaside millet
seaside morning-glory
seaside oat
seaside oxeye
seaside painted-cup
seaside pea
seaside pimpernel
seaside pine
seaside plantain
seaside plum
seaside poppy
seaside radish
seaside sandwort
seaside sparrow
seaside spurge
season check
season crack
season of the year
season ticket
seasonal unemployment
seasoned hand
seasoned professional
seasoned salt
seasoned stock
seasoned understanding
seasoned veteran
seat angle
seat arm
seat back
seat bath
seat belt
seat board
seat bone
seat clip
seat cover
seat coverer
seat cushion
seat designer
seat maker
seat making
seat of affections
seat of authority
seat of government
seat of justice
seat of life
seat of power
seat of state
seat of thought
seat of war
seat owner
seat worm
seat yourself
seat-mile
seaweed fern
seaweed glue
seaweed green
seaweed isinglass
seaweed marquetry
sebaceous cyst
sebaceous gland
sebaceous glands
sebacic acid
seb-
seborrheic dermatitis
secale cornutum
seclude yourself
seclusive personality
secobarbital sodium
second axiom of countability
second ballot
second banana
second base
second baseman
second best
second birth
second blessing
second carbon
second category
second chamber
second childhood
second class
second coming
second cousin
second crop
second derivative
second detector
second draft
second edition
second empire
second estate
second fiddle
second floor
second growth
second hand
second helping
second in command
second intention
second job
second law of motion
second law of thermodynamics
second lieutenant
second line of defense
second look
second man
second mate
second mortgage
second mortgage bond
second nature
second officer
second paper
second papers
second person
second philosophy
second position
second prize
second rank
second reader
second reading
second self
second sex
second sight
second stomach
second story
second string
second stringer
second team
second thought
second thoughts
second to none
second wind
second youth
second-best
second-class
second-class mail
second-cut
second-cut file
second-degree
second-degree burn
second-drawer
second-feet
second-first
second-floor
second-foot
second-growth
second-guess
second-guesser
second-hand
second-handedness
second-in-command
second-line battleship
second-line destroyer
second-order reaction
second-rate
second-rateness
second-rater
second-sighted
second-sightedness
second-story
second-story man
second-story thief
second-story work
second-story worker
second-touch
secondary accent
secondary articulation
secondary battery
secondary burial
secondary cell
secondary color
secondary colour
secondary con
secondary condition
secondary contact
secondary diagonal
secondary digestion
secondary disease
secondary eardrum
secondary education
secondary electron
secondary emission
secondary evidence
secondary group
secondary infection
secondary intention
secondary issue
secondary modern school
secondary oocyte
secondary ordinary
secondary phloem
secondary planet
secondary plot
secondary processes
secondary propyl alcohol
secondary quality
secondary radiation
secondary road
secretary-general
secretary-treasurer
secreto-inhibitory
section bar
section boss
section crew
section cutter
section eight
section gang
section hand
section line
section man
section mark
section mill
section modulus
section paper
section plane
sector disk
sector gear
sector wheel
secular canoness
secular humanism
secular humanist
secular tertiaries
secular vicar
secure place in history
secure the engines
secure the main induction
secure your object
secured bond
secured loan
securi-
securities issue
security agreement
security analyst
security blanket
security clearance
security council
security force
security guard
security risk
sed-festival
sedan chair
sedan clock
sedan cruiser
sedan delivery truck
sedan landaulet
sedan limousine
sedative salt
sedge bird
sedge cane
sedge family
sedge fly
sedge grass
sedge hen
sedge root
sedge warbler
sedge wren
sediment bulb
sediment yeast
sedimentary clay
sedimentary rock
sedimentation coefficient
sedimentation test
sedition-proof
seduction-proof
see about
see action
see active duty
see after
see ahead
see as it really is
see at a glance
see badly
see beforehand
see both sides
see both sides of the question
see but one side of the question
see combat
see daylight
see double
see eye to eye
see fit
see how the cat jumps
see how the cookie crumbles
see how the land lies
see how the wind blows
see if one can do
see in a special light
see in its true colors
see in one's mind
see in perspective
see in retrospect
see in the crystal ball
see into
see it out
see it through
see justice done
see life
see nothing
see nuances of difference
see of
see off
see only the good points of
see out
see over
see poorly
see red
see shades of difference
see that
see the cloven hoof
see the difference
see the future
see the inside of
see the light
see the light of day
see the lions
see the sights
see the special circumstances
see through
see through a glass
see through rose-colored glasses
see through the press
see to
see to it
see to the bottom of
see visions and dream dreams
see what can be done
see what you can do
see which way the cat jumps
see which way the land lies
see which way the wind blows
see with half an eye
see with your own eyes
see you
see you alone
see you later
see you redressed
see you righted
see you through
see your way
see your way clear
see-bright
see-er
see-ho
see-through
seed ball
seed beetle
seed capsule
seed coat
seed coral
seed corn
seed cotton
seed crown
seed down
seed feed cup
seed fern
seed fish
seed hair
seed leaf
seed mesquite
seed money
seed oil cake
seed oyster
seed pearl
seed plant
seed planter
seed plants
seed plat
seed plate
seed plot
seed plow
seed pod
seed potato
seed screener
seed snipe
seed stitch
seed stock
seed tick
seed treatment
seed tree
seed vessel
seed weevil
seed-cake
seed-corn
seed-corn maggot
seed-eating bird
seed-lac
seed-lip
seed-pearl
seed-snipe
seed-time
seeding plow
seedtime of life
seeing as how
seeing distinctions
seeing double
seeing eye
seeing glass
seeing that
seek for
seek gapeseed
seek in law
seek justice
seek legal redress
seek out
seek peace
seek refuge
seek the company of
seek to
seek-sorrow
seem like
seem likely
seem to be
seem true
seenie bean
seep in
seer-fish
segment gear
segment rack
segmental arch
segmental phoneme
segmental saw
segmentation cavity
segmentation nucleus
segmentation sphere
sego lily
sei whale
seidlitz powders
seif dune
seine gang
seir-fish
seis-ing
seismic wave
seismo-
seize on
seize one of the facts
seize power
seize quartiers
seize the crown
seize the day
seize the mantle
seize the meaning
seize the mind
seize the present hour
seize the throne
seize upon
seize your mind
seized of
seized with
seizing stuff
seizing truck
seizure of power
sejant-erect
sejeant-erect
sel- dom
seldom ever
seldom if ever
seldom met with
seldom seen
select committee
selected passage
selected short subject
selected works
selection forest
selection principle
selection rule
selection system
selection value
selective assembly
selective attention
selective calculator
selective service
selective transmission
selective-head
selective-head lathe
selector switch
selen-
selenic acid
selenio-
selenious acid
selenium cell
seleno-
selenographic chart
self blue
self correlation
self destruction
self discharge
self examination
self incrimination
self psychologist
self psychology
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self-supported
self-supportedness
self-supporting
self-supportingly
self-supportless
self-suppressing
self-suppression
self-suppressive
self-sure
self-surrender
self-surrendering
self-survey
self-surveyed
self-surviving
self-survivor
self-suspended
self-suspicion
self-suspicious
self-sustained
self-sustaining
self-sustainingly
self-sustainment
self-sustenance
self-sustentation
self-sway
self-tapping
self-tapping screw
self-taught
self-taught man
self-taught person
self-taxation
self-taxed
self-teacher
self-teaching
self-tempted
self-tenderness
self-terminating
self-terminative
self-testing
self-thinking
self-thinning
self-thought
self-threading
self-tightening
self-timer
self-tipping
self-tire
self-tired
self-tiring
self-tolerant
self-tolerantly
self-toning
self-torment
self-tormented
self-tormenter
self-tormenting
self-tormentingly
self-tormentor
self-torture
self-tortured
self-torturing
self-trained
self-training
self-transformation
self-transformed
self-treated
self-treatment
self-trial
self-triturating
self-troubled
self-troubling
self-trust
self-trusting
self-tuition
self-uncertain
self-unconscious
self-understand
self-understanding
self-understood
self-undoing
self-unfruitful
self-uniform
self-union
self-unity
self-unloader
self-unloading
self-unscabbarded
self-unveiling
self-unworthiness
self-upbraiding
self-usurp
self-validating
self-valuation
self-valued
self-valuing
self-variance
self-variation
self-varying
self-vaunted
self-vaunting
self-vendition
self-ventilated
self-vexation
self-view
self-vindicated
self-vindicating
self-vindication
self-violence
self-violent
self-vivacious
self-vivisector
self-vulcanizing
self-want
self-wardness
self-warranting
self-watchfulness
self-weariness
self-weary
self-weight
self-weighted
self-whipper
self-whipping
self-whole
self-widowered
self-will
self-willed
self-willedly
self-willedness
self-winding
self-wine
self-wisdom
self-wise
self-witness
self-witnessed
self-working
self-worn
self-worship
self-worshiper
self-worshipping
self-worshipper
self-worshipping
self-worth
self-worthiness
self-wounded
self-wounding
self-writing
self-written
self-wrong
self-wrongly
self-wrought
selfish person
selfliquidating loan
sell a pig in a poke
sell at a loss
sell at a sacrifice
sell at auction
sell by auction
sell down the river
sell for
sell foreign
sell gold bricks
sell in futures
sell off
sell on consignment
sell on credit
sell one on
sell out
sell over
sell over the counter
sell retail
sell short
sell stocks
sell to the highest bidder
sell under the counter
sell up
sell wholesale
sell you a bill of goods
sell your life dearly
sell yourself
sell-off
sellenger's round
seller four
seller's market
sellers' market
selling account
selling agent
selling point
selling price
selling race
selling-plater
seltzer water
semantic cluster
semantic field
semantic history
semantic tone
semantic unit
semaphore flag
semaphore plant
semaphore telegraph
semasiological unit
semei-
semen cinae
semen contra
semester hour
semi-
semi-Augustinianism
semi-abstract
semi-abstraction
semi-annual
semi-arian
semi-aridity
semi-armor-piercing
semi-chorus
semi-circle
semi-cubical
semi-demi-
semi-detached
semi-diesel
semi-diurnal
semi-double
semi-form
semi-idiocy
semi-idiotic
semi-idleness
semi-ignorance
semi-illiteracy
semi-illiterate
semi-illiterately
semi-illiterateness
semi-illuminated
semi-imbricated
semi-immersed
semi-impressionistic
semi-incandescent
semi-independence
semi-independent
semi-independently
semi-indirect
semi-indirectly
semi-indirectness
semi-inductive
semi-indurate
semi-indurated
semi-industrial
semi-industrialized
semi-industrially
semi-inertness
semi-infidel
semi-infinite
semi-inhibited
semi-inhibition
semi-insoluble
semi-instinctive
semi-instinctively
semi-instinctiveness
semi-insular
semi-intellectual
semi-intellectualized
semi-intellectually
semi-intelligent
semi-intelligently
semi-intercostal
semi-internal
semi-internalized
semi-internally
semi-interosseous
semi-intoxication
semi-intrados
semi-invalid
semi-inverse
semi-ironic
semi-ironical
semi-ironically
semi-isolated
semi-learning
semi-lune
semi-mat
semi-matte
semi-metal
semi-nocturnal
semi-opal
semi-ped
semi-pelagian
semi-private room
semi-saxon
semi-unabridged dictionary
semi-uncial
semi-Russian
semiair-cooled
semiautomatic control
semiautomatic rifle
semibreve rest
semicircular canal
semicircular canals
semiclassical music
semico-operative
semicolon butterfly
semiconductor circuit
semiconductor device
semiconductor physics
semidrying oil
semilatus rectum
semilunar valve
semimajor axis
semiminor axis
seminal duct
seminal fluid
seminal imagination
seminal principle
semiotic unit
semipalmated plover
semipalmated sandpiper
semiprecious stone
semirigid airship
semisimple algebra
semispheric gas
senor sem
esmer eadem
esmer et ubique
esmer fidelis
esmer idem
esmer paratus
semper-
sen robber
senate house
senate-house
senator-elect
senatorial courtesy
senatorial district
senatus consult
senatus consultum
send a letter to
send a note
send a statement
send a wire
send about your business
send abroad
send after
send away
send back
send down
send flying
send for
send forth
send headlong
send in
send in your papers
send mad
send off
send on a fool's errand
send on a mission
send out
send out of your mind
send out rays
send packing
send round
send scuttling
send sprawling
send to Coventry
send to Davy Jones's locker
send to glory
send to hell
send to jail
send to kingdom come
send to school
send to sleep
send to the bottom
send to the gas chamber
send to the right-about
send to the showers
send to your last account
send up
send up a prayer
send up a trial balloon
send up the river
send word
send you spinning
send your compliments
send your condolences
send your regards
send-off
send-out
sending abroad
sending back
sending set
sending station
sending to Coventry
seneca oil
seneca snakeroof
senega root
senega snakeroof
seneka root
seneka snakeroof
sengreen saxifrage
senile debility
senile dementia
senile psychosis
senile weakness
senility necrosis
senior checker
senior chief petty officer
senior citizen
senior citizenship
senior common room
senior high
senior high school
senior master sergeant
senior officer
senior securities
seniority rule
senna family
senna tree
sensation level
sensation-proof
sensational play
sense datum
sense faculty
sense finder
sense form
sense group
sense impression
sense of duty
sense of hearing
sense of humor
sense of humour
sense of indebtedness
sense of language
sense of mystery
sense of obligation
sense of relief
sense of rhythm
sense of right and wrong
sense of sight
sense of smell
sense of taste
sense of the meeting
sense of touch
sense of wonder
sense organ
sense perception
sense pleasure
sense stress
sense survival
sense-bereaving
sense-bound
sense-confounding
sense-confusing
sense-data
sense-datum
sense-distracted
sense-ravishing
sensible note
sensible of
sensible price
sensible to
sensible horizon
sensitive area
sensitive ear
sensitive fern
sensitive heart
sensitive plant
sensitive to
sensitivity to
sensitivity training
sensitizing antibody
sensitol green
sensitometric curve
sensori-
sensory aid
sensory area
sensory awareness training
sensory cell
sensory deprivation
sensory epilepsy
sensory experience
sensory neuron
sensory organ
sensory paralysis
sensory pattern
sensual pleasure
sensum theory
sensuous desire
sensuous pleasure
sensus communis
sentence accent
sentence adverb
sentence balance
sentence building
sentence connector
sentence fragment
sentence making
sentence method
sentence modifier
sentence monger
sentence of death
sentence pattern
sentence stress
sentence structure
sentence substitute
sentence tone
sentential calculus
sentential connective
sentential function
sententious expression
sententious saying
sentiment-proof
sentimental comedy
sentimental novel
sentimental value
sentinel crab
sentry board
sentry box
sentry go
sentry-box
sentry-fashion
sentry-go
separate forcibly
separate from the service
separate identity
separate involuntarily
separate maintenance
separate out
separate person
separate returns
separate school
separate the men from the boys
separate yourself
separated brother
separating funnel
separating power
separation allowance
separation center
separation energy
separation from the service
separation layer
separation negative
separation of attention
separation of powers
separation theorem
separatory funnel
sepia paper
sepia-colored
sepia-eyed
sepia-tinted
seppa dai
sept chord
septal cartilage
septal neck
septem-
septi-
septic poisoning
septic sore throat
septic tank
septicemic plag
septicemic plague
septifragal dehiscence
septo-
septuple time
sequence flasher
sequence flashers
sequence of ideas
sequence of phonemes
sequence of tenses
sequence of thought
sequence switch
sequential access
sequential system
sequentially compact set
sequester yourself
sequoia pitch moth
serbo-
serbo-croatian
sergeant armorer
sergeant at arms
sergeant at law
sergeant bugler
sergeant clerk
sergeant cook
sergeant drummer
sergeant first class
sergeant fish
sergeant footman
sergeant instructor
sergeant major
sergeant painter
sergeant porter
sergeant saddler
sergeant schoolmaster
sergeant tailor
sergeant trumpet
sergeant trumpeter
sergeant-at-arms
sergeant-at-law
sergeant-major
sergeant-majorship
sergeants major
serial bond
serial correlation
serial epilepsy
serial number
serial operation
serial order
serial polygamy
serial right
serial technique
sericin gum
sericite gneiss
sericite schist
series dynamo
series motor
series multiple
series parallel
series resonance
series spectra
series turn
series winding
series-wound
serin finch
serio-
serio-comic
serious drinker
serious drinking
serious literature
serious music
serious operation
serious-minded
serious-mindedly
serious-mindedness
serjeant at arms
serjeant at law
serjeant-at-law
sermon bell
sermon on the mount
sero-
seroplastic inflammation
serous fluid
serous gland
serous inflammation
serous membrane
serpent cucumber
serpent cult
serpent eagle
serpent eater
serpent fern
serpent fish
serpent gourd
serpent grass
serpent melon
serpent moss
serpent radish
serpent star
serpent stone
serpent-god
serpent-goddess
serpent-shaped
serpent-stone
serpentine front
serpentine green
serpentine marble
serpentine stretcher
serran imperial
serrana hispana
serrate-ciliate
serrate-dentate
serrato-
serre-papier
serri-
serum albumin
serum anaphylaxis
serum death
serum disease
serum gamma globulin
serum globulin
serum hepatitis
serum jaundice
serum prothrombin accelerator
serum shock
serum sickness
serum therapy
serum transfusion
servant girl
servant of God
servant of the servants of God
serve Mammon
serve an apprenticeship
serve as
serve in the capacity of
serve in the office of
serve in your stead
serve notice
serve one out
serve out
serve the office of
serve the purpose
serve time
serve with the colors
serve you right
serve your need
serve-out
service ace
service aircraft
service area
service battery
service book
service box
service brake
service break
service buzzer
service call
service cap
service ceiling
service charge
service clasp
service club
service company
service court
service door
service elevator
service engineer
service entrance
service flag
service flat
service hat
service industry
service line
service magazine
service mark
service medal
service module
service of music
service of song
service pension
service pipe
service plate
service road
service side
service side line
service squadron
service stair
service station
service stripe
service switch
service tree
service troop
service uniform
service wall
servient tenement
servile work
serving cart
serving girl
serving hatch
serving knife
serving mallet
serving man
serving pantry
serving stuff
serving table
servo amplifier
servo brake
servo control
servo engineer
servo engineering
servo instrumentation
servo laboratory
servo regulator
servo system
servo tab
servo valve
servo-
servo-control
servo-controlled
servo-motor
servo-pilot
sesame grass
sesame oil
sesame seeds
sesamoid bones
sesqui-
sesquipedalian word
sessile oak
sessile-eyed
sessile-flowered
sessile-fruited
sessile-leaved
sessional indemnity
set a course
set a limit
set a new mark
set a price on
set a question
set a stopping place
set a task
set a trap for
set a value on
set about
set above
set abroach
set afloat
set against
set against one another
set a-going
set an anchor watch
set an arbitrary price on
set an end point
set an examination
set an example
set apart
set aside
set astir
set at
set at defiance
set at each other's throat
set at ease
set at hazard
set at intervals
set at large
set at liberty
set at naught
set at odds
set at rest
set at variance
set at your throat
set attention to
set back
set bar
set before
set before yourself
set book
set by
set by the ears
set chisel
set conditions
set designer
set down
set down as
set down for
set down for hearing
set down to
set eyes on
set fast
set fire to
set foot in
set foot on
set foot on dry land
set for
set form
set forth
set forward
set free
set function
set gauge
set going
set gun
set hammer
set her down
set hook
set hurdles
set in
set in contrast
set in motion
set in opposition
set in order
set in print
set in the tablets of memory
set in towards
set in your ways
set iron
set straight
set task
set temper
set term
set terms
set the Thames on fire
set the brain to work
set the date
set the echoes ringing
set the fashion
set the law at defiance
set the law at naught
set the limit
set the mind to
set the mood
set the pace
set the price tag too high
set the river on fire
set the stage
set the style
set the table on a roar
set the teeth on edge
set the time
set the tone
set the wits to work
set the world on fire
set theory
set to
set to music
set to one side
set to rights
set to sleep
set to the account of
set to work
set toward
set tub
set type
set up
set up for
set up housekeeping
set up in business
set up shop
set upon
set upon on all sides
set width
set with thorns
set your back against the wall
set your cap at
set your cap for
set your compass for
set your course for
set your dignity aside
set your dignity to one side
set your face against
set your foot down
set your foot down on
set your hand and seal
set your hand to
set your heart against
set your heart at rest
set your heart on
set your heart upon
set your house in order
set your jaw
set your mind at ease
set your mind at rest
set your mind upon
set your seal
set your shoulder to the wheel
set your sights on
set your teeth
set your teeth on edge
set your thoughts on
set your wits to work
set yourself against
set-
set-aside
set-back
set-down
set-fair
set-hands
set-in
set-in sleeve
set-off
set-out
set-stitched
set-to
set-up
set-up board
set-upness
seti-
setoff sheet
sett beater
settee bed
settee rig
setter-forth
setter-in
setter-on
setter-out
setter-to
setter-up
setting apart
setting aside
setting at liberty
setting block
setting board
setting circle
setting coat
setting day
setting dog
setting free
setting gauge
setting hen
setting in motion
setting lotion
setting node
setting point
setting pole
setting punch
setting rule
setting stake
setting stick
setting sun
setting-free
setting-out
setting-to
setting-up
setting-up exercise
setting-up exercises
settle a score
settle accounts
settle accounts with
settle at
settle bed
settle differences
settle down
settle for
settle in
settle into
settle it
settle on
settle preliminaries
settle the land
settle the matter
settle the score
settle to rest
settle to sleep
settle upon
settle with
settle your differences
settle your hash
settle your mind
settle-abide
settle-bench
settle-brain
settle-down
settled belief
settled in habit
settled judgment
settled principle
settled production
settled purpose
settled soap
settled upon
settlement day
settlement house
settlement lease
settlement option
settlement sheet
settlement worker
settling clerk
settling day
settling price
seven deadly sins
seven o'clock
seven principles of man
seven sacraments
seven seas
seven sisters
seven sleepers
seven stars
seven year
seven-banded
seven-branched
seven-caped
seven-card stud
seven-channeled
seven-chorded
seven-cornered
seven-day
seven-eleven
seven-eyed
seven-eyes
seven-figure
seven-foot
seven-footer
seven-formed
seven-gated
seven-gilled
seven-hand
seven-headed
seven-hilled
seven-hilly
seven-holes
seven-horned
seven-inch
seven-league
seven-league boots
seven-leaved
seven-line
seven-masted
seven-mouthed
seven-nerved
seven-ounce
seven-part
seven-part time
seven-piled
seven-ply
seven-point
seven-point circle
seven-poled
seven-pronged
seven-quired
seven-sealed
seven-shilling
seven-shooter
seven-sided
seven-sisters
seven-spot
seven-spotted
seven-syllabled
seven-thirties
seven-thirty
seven-thorned
seven-toned
seven-twined
seven-twisted
seven-up
seven-year
seven-year itch
seventeen-hundreds
seventeen-year
seventeen-year locust
seventh chord
seventh day
seventh heaven
seventh nerve
seventh-day
seventy-day
seventy-dollar
seventy-eight
seventy-eighth
seventy-fifth
seventy-first
seventy-five
seventy-foot
seventy-footer
seventy-four
seventy-fourth
seventy-horse
seventy-mile
seventy-nine
seventy-ninth
seventy-odd
seventy-one
seventy-second
seventy-seven
seventy-seventh
seventy-six
seventy-sixth
seventy-third
seventy-three
seventy-ton
seventy-two
seventy-year
several times
several-celled
several-flowered
several-fold
several-lobed
several-nerved
several-ribbed
severance pay
severance tax
severe check
sew up
sewage disposal
sewage disposal, sewage farm, sewed up, sewee bean, sewer brick, sewer builder, sewer gas, sewer pipe, sewer rat, sewing awl, sewing basket, sewing bench, sewing bird, sewing board, sewing cabinet, sewing circle, sewing class, sewing cotton, sewing machine, sewing needle, sewing press, sewing room, sewing school, sewing silk, sewing society, sewing table, sewing teacher, sewing thread, sewing tray, sewing twine, sewing wire, sewing woman, sewing work, sewing-machine needle, sex act, sex appeal, sex behavior, sex cell, sex characteristic, sex chromosome, sex crime, sex criminal, sex deviant, sex deviate, sex discrimination, sex drive, sex fiend, sex goddess, sex hormone
sex hygiene
sex kitten
sex linkage
sex object
sex organ
sex organs
sex pervert
sex queen
sex ratio
sex-
sex-intergrade
sex-limited
sex-linkage
sex-linked
sex-starved
sexagesimal scale
sexagesimal system
sexagesimo-quarto
sexed-up
sexi-
sextant altitude
septo-decimo
sexton beetle
sextuple press
sextuple time
sexual abnormality
sexual abstinence
sexual advance
sexual approach
sexual assault
sexual attraction
sexual attractiveness
sexual climax
sexual commerce
sexual congress
sexual customs
sexual desire
sexual deviance
sexual deviant
sexual deviate
sexual deviation
sexual excitement
sexual freedom
sexual generation
sexual infantilism
sexual innocence
sexual instinct
sexual intercourse
sexual inversion
sexual invitation
sexual longing
sexual love
sexual magnetism
sexual morality
sexual mores
sexual normality
sexual overture
sexual passion
sexual pathology
sexual perversion
sexual pervert
sexual pleasure
sexual possession
sexual power
sexual practices
sexual precocity
sexual preference
sexual psychopath
sexual psychopathy
sexual relations
sexual reproduction
sexual revolution
sexual selection
sexual union
sexual urge
sexually abstinent
sexually excited
sexually innocent
sexy body
sh-sh
shab-rag
shabby-genteel
shabby-gentility
shack bait
shack up
shackle bar
shackle bolt
shackle insulator
shackle joint
shad fly
shad frog
shad scale
shad spirit
shad tree
shad-bellied
shad-belly
shad-blow
shade deck
shade into
shade of difference
shade off
shade pine
shade plant
shade tree
shade-bearing
shade-enduring
shade-giving
shade-grown
shade-loving
shade-seeking
shades and shadows
shades below
shades of death
shading amplifier
shading coil
shadow band
shadow bird
shadow box
shadow cabinet
shadow compass
shadow cone
shadow dance
shadow fight
shadow figure
shadow forth
shadow line
shadow mask
shadow nucleus
shadow of death
shadow of doubt
shadow pantomime
shadow pin
shadow play
shadow show
shadow skirt
shadow stitch
shadow stop
shadow test
shadow-box
shadow-mask kinescope
shadowed forth
shadows numberless
shady dealings
shady reputation
shaft alley
shaft efficiency
shaft eye
shaft feather
shaft furnace
shaft governor
shaft grave
shaft grave tomb
shaft head
shaft horse
shaft horsepower
shaft house
shaft key
shaft sinker
shaft tackle
shaft tug
shaft tunnel
shaft-rubber
shaft-straightener
shaftfoot man
shafting lathe
shag ass
shag rug
shag-haired
shag-rag
shagbark hickory
shaggy cap
shaggy dog story
shaggy-barked
shaggy-bearded
shaggy-bodied
shaggy-coated
shaggy-dog story
shaggy-fleeced
shaggy-footed
shaggy-haired
shaggy-leaved
shaggy-mane
shaggy-mane mushroom
shaggy-maned
shake a leg
shake all over
shake bolt
shake culture
shake down
shake hands
shake hands and kiss babies
shake hands on
shake hands with
shake hands with yourself
shake in your boots
shake in your shoes
shake it up
shake like an aspen leaf
shake like jelly
shake off
shake off the yoke
shake on it
shake the dust from your feet
shake the head
shake the windows
shake up
shake with laughter
shake your faith
shake your fist at
shake your hand
shake your head
shake your head at
shake-bag
shake-cabin
shake-down
shake-hands
shake-out
shake-rag
shake-up
shakebag club
shakebag match
shakedown artist
shakedown cruise
shaken up
shaking of hands
shaking palsy
shaking prairie
shaking pudding
shaking table
shaky health
shalach manosh
shale green
shale naphtha
shale oil
shale spirit
shallot sauce
shallow structure
shallow water
shallow-bottomed
shallow-brained
shallow-draft
shallow-footed
shallow-forded
shallow-headed
shallow-hulled
shallow-minded
shallow-mindedness
shallow-pated
shallow-read
shallow-rooted
shallow-rooting
shallow-sea
shallow-searching
shallow-sighted
shallow-soiled
shallow-thoughted
shallow-toothed
shallow-waisted
shallow-water
shallow-witted
shallow-wittedness
shalom aleichem
shalom alekhem
shalosh seudos
shalosh seudoth
sham object
sham subject
shama millet
shamalo grass
shame brier
shame child
shame vine
shame-burnt
shame-crushed
shame-eaten
shame-shrunk
shame-stricken
shame-swollen
shameless falsehood
shammy leather
shamrock green
shamrock pea
shamrock-pea
shangri-la
shank bone
shank cutter
shank grass
shank mill
shank of the afternoon
shank of the evening
shank painter
shank's mare
shank's pony
shank-painter
shanks' mare
shanks' pony
shanks's pony
shanky boat
shanky boy
shanky-boater
shape a course
shape note
shape out a course
shape shifting
shape target
shape the hair
shape up
shape your course for
shape-knife
shape-shifting
shape-up
shaped charge
shaped note
shaping dies
shaping imagination
shaping planer
shard beetle
shard-born
shard-borne
share and share alike
share around
share beam
share certificate
share crop
share head
share in
share ledger
share out
share premium
share register
share tenant
share with
share your bed and board
share your grief
share your sorrow
share-out
shared pair
sharing of grief
sharing of sorrow
sharing out
shark barrow
shark bell
shark moth
shark net
shark oil
shark patrol
shark pilot
shark ray
shark siren
shark sucker
shark-liver
shark-liver oil
sharkskin pahoehoe
sharp air
sharp as a needle
sharp as a razor
sharp as a tack
sharp as a two-edged sword
sharp as broken glass
sharp cash
sharp cedar
sharp dock
sharp ear
sharp edge
sharp eye
sharp freezing
sharp frost
sharp iron
sharp look
sharp mixture
sharp pain
sharp practice
sharp sand
sharp sight
sharp wind
sharp words
sharp-angled
sharp-ankled
sharp-back
sharp-back shark
sharp-backed
sharp-beaked
sharp-bellied
sharp-billed
sharp-biting
sharp-bottomed
sharp-breasted
sharp-clawed
sharp-cornered
sharp-cut
sharp-cutting
sharp-earred
sharp-edged
sharp-elbowed
sharp-eye
sharp-eyed
sharp-eyes
sharp-faced
sharp-fanged
sharp-featured
sharp-flavored
sharp-freeze
sharp-freezer
sharp-freezing
sharp-froze
sharp-frozen
sharp-fruited
sharp-gritted
sharp-ground
sharp-headed
sharp-heelled
sharp-horned
sharp-keeled
sharp-leaved
sharp-looking
sharp-minded
sharp-nebed
sharp-nosed
sharp-nosed shark
sharp-nosedly
sharp-nosedness
sharp-odored
sharp-petaled
sharp-piercing
sharp-piled
sharp-pointed
sharp-quilled
sharp-ridged
sharp-set
sharp-setness
sharp-shinned
sharp-shinned hawk
sharp-sighted
sharp-sightedly
sharp-sightedness
sharp-smelling
sharp-smitten
sharp-snouted
sharp-staked
sharp-staring
sharp-tailed
sharp-tailed grouse
sharp-tailed sparrow
sharp-tasted
sharp-tasting
sharp-tempered
sharp-toed
sharp-tongued
sharp-toothed
sharp-toothed unkindness
sharp-topped
sharp-visaged
sharp-whetted
sharp-winged
sharp-witted
sharp-wittedly
sharp-wittedness
sharpen a distinction
sharpen the wits
sharpen your tools
sharper than a serpent's tooth
sharptail mola
shatter your hopes
shattered mind
shattered nerves
shave away
shave grass
shave hook
shave off
shave rush
shaving basin
shaving board
shaving box
shaving brush
shaving case
shaving cream
shaving cup
shaving dies
shaving glass
shaving horse
shaving mill
shaving mirror
shaving mug
shaving paper
shaving paste
shaving powder
shaving set
shaving soap
shaving stand
shaving stick
shaving strop
shaving towel
shaving water
shawl collar
shawl goat
shawl loom
shawl material
shawl pattern
shawl strap
shawl waistcoat
she all
she pitch pine
she teak
she-actor
she-adventurer
she-ape
she-apostle
she-ass
she-baker
she-balsam
she-bear
she-beech
she-captain
she-chattel
she-costermonger
she-cousin
she-demon
she-devil
she-dragon
she-fish
she-foal
she-fool
she-fox
she-friend
she-goat
she-god
she-gypsy
she-ironbark
shear structure
shear transformation
shear zone
shear-grass
shear-legs
shearing deformation
shearing dies
shearing force
shearing machine
shearing plane
shearing punch
shearing stress
shearing tool
sheath gown
sheath knife
sheath moth
sheath pieffield
sheath pile
sheath-fish
sheath-winged
sheathe the sword
sheathing board
sheathing copper
sheathing felt
sheathing lead
sheathing lumber
sheathing nail
sheathing paper
sheave hole
shed a luster on
shed blood
shed burn
shed dormer
shed fresh light upon
shed hand
shed ink
shed light upon
shed luster on
shed new light upon
shed of
shed roof
shed tears
shed-builder ant
sheeling hill
sheep bar
sheep barn
sheep bell
sheep bot
sheep botfly
sheep boy
sheep breeder
sheep breeding
sheep bur
sheep clipper
sheep clipping
sheep dip
sheep dipper
sheep dipping
sheep dog
sheep fair
sheep farm
sheep farmer
sheep farming
sheep fescue
sheep fescue grass
sheep flake
sheep fly
sheep gadfly
sheep hound
sheep husbandry
sheep ked
sheep killer
sheep killing
sheep land
sheep laurel
sheep louse
sheep measles
sheep oat grass
sheep owner
sheep owning
sheep parsley
sheep pelt
sheep pest
sheep plant
sheep poison
sheep pox
sheep rack
sheep raiser
sheep raising
sheep ranch
sheep range
sheep reeve
sheep rot
sheep run
sheep scab
sheep scabious
sheep shears
sheep silver
sheep sorrel
sheep station
sheep tansy
sheep tick
sheep wash
sheep washer
sheep's eye
sheep's eyes
sheep's fescue
sheep's head
sheep's sorrel
sheep's-bit
sheep-biter
sheep-dip
sheep-grazing
sheep-hued
sheep-kneed
sheep-lice
sheep-root
sheep-shearer
sheep-shearing
sheep-sick
sheep-spirited
sheep-tick
sheep-white
sheep-witted
sheepdog trial
sheepshead minnow
sheepshead porgy
sheepswool sponge
sheer batten
sheer boom
sheer chemistry
sheer draft
sheer drawing
sheer hook
sheer leg
sheer legs
sheer line
sheer off
sheer plan
sheer pole
sheer ratline
sheer stockings
sheer strake
sheer thursday
sheer-built
sheer-hulk
sheer-off
sheet anchor
sheet bend
sheet bundler
sheet cable
sheet chain
sheet down
sheet erosion
sheet film
sheet glass
sheet home
sheet iron
sheet lightning
sheet metal
sheet mill
sheet mold
sheet music
sheet of fire
sheet of rain
sheet pavement
sheet pile
sheet piling
sheet steel
sheet tin
sheet watermark
sheet writer
sheet-anchor
sheet-block
sheet-fed
sheet-fed press
sheeting pile
sheld-duck
shelf bracket
shelf catalogue
shelf fungus
shelf ice
shelf ladder
shelf life
shelf list
shelf mark
shelf plate
shelf rest
shelf warmer
shelf-room
shell auger
shell back
shell bark
shell bean
shell bit
shell boiler
shell button
shell carver
shell cast
shell chuck
shell construction
shell couching
shell crest
shell cut
shell dove
shell down
shell drill
shell edging
shell expansion
shell eye
shell feed
shell fire
shell game
shell gland
shell gray
shell heap
shell hole
shell hooks
shell ibis
shell ice
shell jacket
shell limestone
shell marble
shell money
shell mound
shell out
shell parakeet
shell pear
shell pink
shell plating
shell pump
shell quail
shell reamer
shell reducer
shell road
shell room
shell ruching
shell sac
shell shock
shell snail
sheriff court
sheriff depute
sheriff substitute
sheriff-pink
sherry brown
sherry cobbler
shetland pony
shetland sheepdog
shetland wool
shibuichi-doshi
shick-shack
shield arm
shield back
shield bearer
shield bud
shield budding
shield bug
shield cell
shield fern
shield fungus
shield grid
shield roots
shield wall
shield-back
shield-bearer
shield-bearing
shield-breaking
shield-fern
shield-headed
shield-leaved
shield-maiden
shield-scale fungus
shield-shaped
shield-tailed snake
shield-shuffle
shift about
shift ballast
shift bid
shift boss
shift for yourself
shift into
shift joint
shift key
shift lock
shift marriage
shift of structure
shift of tense
shift off
shift place
shift the blame
shift the control
shift the responsibility
shift the rudder
shift the scene
shift with
shift your ground
shifter fork
shifting course
shifting cultivation
shifting path
shifting pedal
shifting sands
shifting scene
shifting spanner
shifting trust
shifting use
shifty-eyed
shih-tzu
shilling mark
shilling shocker
shilly-shallied
shilly-shallies
shilly-Shally
shilly-shallyer
shilly-shallying
shilly-shallyingly
shim plow
shim-sham
shimmer with heat
shin guard
shin oak
shin up
shin-bone
shin-tangle
shindig dancer
shine a light
shine at
shine brightly
shine forth
shine in
shine out
shine through
shine up to
shine upon
shiner perch
shiner sea perch
shiner-up
shingle band
shingle bolt
shingle lap
shingle oak
shingle roof
shingle tree
shingle weaver
shingle-back
shining example
shining flycatcher
shining from shook foil
shining light
shining oat grass
shining willow
shiny-backed
ship ahoy
ship auger
ship biscuit
ship boat
ship borer
ship breaker
ship broker
ship canal
ship carpenter
ship carpentry
ship chandler
ship chandlery
ship control
ship decanter
ship fever
ship head
ship joiner
ship ladder
ship letter
ship money
ship news
ship oars
ship of state
ship of the desert
ship of the line
ship of war
ship out
ship part
ship pendulum
ship pound
ship railway
ship rat
ship rigger
ship room
ship route
ship splice
ship stuff
ship time
ship tire
ship writ
ship's biscuit
ship's boat
ship's boy
ship's carpenter
ship's company
ship's cooper
ship's husband
ship's log
ship's officer
ship's papers
ship's ropes
ship's service
ship's tailor
ship's watch
ship's writer
ship-chandler
ship-holder
ship-load
ship-minded
ship-mindedly
ship-mindedness
ship-money
ship-of-war
ship-rigged
ship-shape
ship-shaped
ship-to-shore
ship-to-shore radio
shipboard interceptor
shipboard plane
shiplapped lumber
shipper fork
shipping articles
shipping center
shipping clerk
shipping commissioner
shipping fever
shipping mark
shipping master
shipping note
shipping office
shipping order
shipping pneumonia
shipping room
shipping ton
shipping-dry
shipplane carrier
shipshape and Bristol fashion
shire borough
shire day
shire ground
shire horse
shire knight
shire moot
shire reeve
shire town
shire-moot
shirley poppy
shirred eggs
shirt board
shirt dresser
shirt frame
shirt frill
shirt front
shirt ironer
shirt sleeve
shirt-dress
shirt-sleeve
shirt-sleeve diplomacy
shirt-sleeved
shirt-tail
shirtwaist dress
shirtwaist suit
shish kebab
shit in your pants
shit-headed
shittah tree
shittim wood
shive wheel
shiver my timbers
shiver spar
shoal duck
shoal water
shock absorber
shock action
shock battalion
shock bump
shock cord
shock corps
shock dog
shock force
shock pad
shock reaction
shock soldier
shock tactics
shock therapy
shock treatment
shock troops
shock tube
shock wave
shock-bucker
shock-dog
shock-head
shocking pink
shoe blacking
shoe block
shoe board
shoe boil
shoe bolt
shoe box
shoe buckle
shoe button
shoe cleaner
shoe dauber
shoe dealer
shoe department
shoe drill
shoe dye
shoe fastener
shoe findings
shoe last
shoe laster
shoe leather
shoe lifter
shoe machinery
shoe mender
shoe merchant
shoe nail
shoe peg
shoe piece
shoe polish
shoe polisher
shoe repaired
shoe shiner
shoe silver
shoe stone
shoe store
shoe tie
shoe tree
shoe trimmer
shoe-button spider
shoe-cleaning
shoe-horn
shoe-leather
shoe-make
shoe-spoon
shoeblack plant
shoeing-horn
shoeless horse
shoestring catch
shoestring fern
shoestring fungus
shoestring lily
shoestring margin
shoestring potato
shoestring weed
shoggy-shoo
shoo-fly pie
shoo-in
shoofly finger
shoofly pie
shook swarming
shook up
shook-up
shoot ahead
shoot ahead of
shoot apex
shoot at
shoot back
shoot ballast
shoot craps
shoot down
shoot down in flames
shoot for
shoot full of holes
shoot into space
shoot it out with
shoot off at an angle
shoot off your face
shoot off your mouth
shoot out
shoot out rays
shoot questions at
shoot straight
shoot straight with
shoot the breeze
shoot the bull
shoot the chutes
shoot the shit
shoot the sun
shoot the works
shoot through
shoot to death
shoot up
shoot your bolt
shoot your cookies
shoot-'em-up
shoot-off
shoot-out
shoot-root ratio
shoot-the-chutes
shooting board
shooting box
shooting brake
shooting coat
shooting fish
shooting gallery
shooting glove
shooting iron
shooting jacket
shooting lodge
shooting match
shooting pain
shooting range
shooting script
shooting star
shooting stick
shooting up
shooting war
shop around
shop assistant
shop at
shop bill
shop chairman
shop clerk
shop committee
shop complex
shop deputy
shop drawing
shop fitter
shop floor
shop lumber
short-bodied
short-branched
short-bread
short-breasted
short-breathed
short-breathing
short-cake
short-celled
short-change
short-changed
short-changer
short-changing
short-chinned
short-circuit
short-circuiter
short-clawed
short-cloaked
short-commons
short-coupled
short-crested
short-cropped
short-crowned
short-cut
short-cycle
short-cycled
short-dated
short-day
short-distance
short-docked
short-drawn
short-eared
short-eared owl
short-extend
short-eyed
short-faced
short-fed
short-fingered
short-finned
short-footed
short-fruited
short-grained
short-growing
short-hair
short-hair plume grass
short-haired
short-handed
short-handled
short-haul
short-headed
short-headedness
short-heeled
short-hop airline
short-horned
short-horned grasshopper
short-jointed
short-keeled
short-laid
short-landed
short-lasting
short-leaf
short-leaved
short-legged
short-limbed
short-lined
short-list
short-lived
short-livedness
short-living
short-long
short-lunged
short-made
short-manned
short-measured
short-mouthed
short-nailed
short-napped
short-necked
short-nighted
short-nosed
short-order
short-order cook
short-period comet
short-period variable
short-pitch
short-pitch winding
short-podded
short-pointed
short-quartered
short-range
short-run
short-running
short-set
short-shafted
short-shanked
short-shelled
short-shipped
short-short
short-shouldered
short-shucks
short-sighted
short-sightedness
short-skirted
short-sleeved
short-sleeved shirt
short-sloped
short-snouted
short-span
short-spined
short-spined sea scorpion
short-spired
short-spoken
short-spurred
short-staffed
short-stalked
short-staple
short-staple isinglass
short-statured
short-stemmed
short-stepped
short-stop
short-stop bath
short-story
short-story writer
short-story writing
short-styled
short-suiter
short-sword
short-tailed
short-tailed shrew
short-tempered
short-term
short-term bond
short-term loan
short-term memory
short-term note
short-termed
short-time
short-time rating
short-toed
short-tongued
short-toothed
short-trunked
short-trussed
short-twisted
short-waisted
short-wall machine
short-weight
short-weighter
short-winded
short-windedly
short-windedness
short-winged
short-witted
short-wool
short-wooled
short-wristed
shorten sail
shortened version
shortest way
shortfin corvina
shorthand typist
shortleaf pine
shortleaf yellow pine
shortness of breath
shortstop bath
shortwave antenna
shortwave band
shortwave broadcasting
shortwave diathermy
shortwave diathermy machine
shortwave radio
shortwave receiver
shortwave signal
shortwave station
shortwave transmitter
shot borer
shot bort
shot cartridge
shot corn
shot crossbow
shot drill
shot effect
shot garland
shot glass
shot hoist
shot hole
shot holing
shot hooks
shot in the arm
shot in the dark
shot in the locker
shot lighter
shot line
shot locker
shot metal
shot noise
shot plant
shot put
shot rope
shot samples
shot silk
shot through
shot to pieces
shot tongs
shot tower
shot-blasting
shot-clog
shot-free
shot-gun
shot-hole borer
shot-log
shot-peen
shot-put
shot-putter
shot-putting
shot-silk
shot-stifled
shotgun marriage
shotgun microphone
shotgun pattern
shotgun wedding
shotten down
should want
should-be
shoulder a gun
shoulder angle
shoulder arm
shoulder arms
shoulder bag
shoulder bar
shoulder belt
shoulder blade
shoulder block
shoulder board
shoulder bone
shoulder brace
shoulder clod
shoulder flash
shoulder girdle
shoulder gun
shoulder knot
shoulder loop
shoulder mark
shoulder note
shoulder pad
shoulder patch
shoulder point
shoulder screw
shoulder sleeve insignia
shoulder slip
shoulder strap
shoulder to shoulder
shoulder tuft
shoulder weapon
shoulder-blade
shoulder-bone
shoulder-clap
shoulder-clapper
shoulder-high
shoulder-hitter
shoulder-knot
shoulder-piece
shoulder-shotten
shoulder-strap
shouldered arch
shout at the top of your voice
shout defiance
shout down
shout from the housetops
shout hallelujah
shout hosanna
shout of laughter
shout out
shout song
shouting distance
shove aside
shove away
shove in your oar
shove off
shove the queer
shove-groat
shove-ha'penny
shove-halfpenny
shove-hapenny
shoved joint
shovel cultivator
shovel hat
shovel plow
shovel-beaked
shovel-bladed
shovel-board
shovel-footed
shovel-handed
shovel-hatted
shovel-headed
shovel-mouthed
shovel-nose
shovel-nosed
shovel-nosed duck
shovel-nosed ray
shovel-nosed shark
shovel-nosed sturgeon
shovel-shaped
shovelhead catfish
shovelhead shark
shovelnose sturgeon
shoving match
show a bold front
show a clean pair of heels
show a deficit
show a direction
show a lack of respect for
show a leg
show a light pair of heels
show a proper spirit
show a set
show a tendency
show a trend
show aptitude for
show bill
show biz
show box
show business
show card
show consideration
show copy
show dahlia
show disrespect for
show distaste for
show dog
show end
show expertise
show fight
show forth
show fragility
show geranium
show girl
show glass
show how
show improvement
show in the best colors
show its colors
show its face
show kindness to
show marks of age
show mercy
show no amazement
show no appetite
show no mercy
show of hands
show of joy
show off
show one's cards
show one's face
show palce
show pipe
show pity
show preference
show resentment
show respect
show respect for
show ring
show sensitivity
show signs of
show signs of life
show someone the door
show stone
show stopper
show sufficient grounds for
show tact
show talent for
show the door
show the gate
show the heels
show the way
show the white feather
show the white flag
show through
show trial
show up
show up late
show what you have
show window
show you your place
show your age
show your authority
show your cards
show your colors
show your face
show your hand
show your heels to
show your mind
show your teeth
show your true colors
show yourself
show-bread
show-me
show-off
show-offish
show-offy
show-through
show-worthy
shower bath
shower bouquet
shower curtain
shower down
shower down upon
shower head
shower room
shower stall
shower-bath
showing for all to see
showing forth
showing up
showing-off
shown up
showy crab apple
showy gaillardia
showy mentzelia
showy milkweed
showy orchis
showy portulaca
showy primrose
showy sunflower
showy-flowered
showy-leaved
shred of comfort
shred-pie
shrew mole
shrewd-brained
shrewd-headed
shrewd-looking
shrewd-pated
shrewd-tongued
shrewd-witted
shriek owl
shrike thrush
shrike tit
shrill sound
shrill-edged
shrill-gorged
shrill-toned
shrill-tongued
shrill-voiced
shrimp catcher
shrimp pink
shrimp red
shrink back
shrink fit
shrink from
shrink link
shrink rule
shrink-wrap
shrinkage fit
shrinkage rule
shrinkage stope
shrinking fit
shrinking head
shrinking violet
shrive yourself
shrivel up
shrived up
shroud knot
shroud line
shroud lines
shroud plate
shroud-laid
shrouded in darkness
shrouded in mystery
shrouded spirit
shrove monday
shrove sunday
shrove tuesday
shrove-tide
shroving time
shrub cinquefoil
shrub mallow
shrub oak
shrub steppe
shrub willow
shrub yellowroot
shrubby cinquefoil
shrug away
shrug it off
shrug off
shrug the shoulders
shrug your shoulders at
shuck off
shuck spray
shuck-bottom
shudder at
shudder of the flesh
shuffle along
shuffle off
shuffle off this mortal coil
shuffle on
shuffle out of
shuffle scale
shuffle the cards
shuffle-board
shun companionship
shun-pike
shunt circuit
shunt dynamo
shunt excitation
shunt field
shunt lamp
shunt lead
shunt motor
shunt valve
shunt winding
shunt-wound
shunting engine
shunting off
shut down
shut down on
shut fast
shut in
shut it down
shut mind
shut my mouth
shut of
shut of day
shut off
shut out
shut the door
shut the door in your face
shut the door to
shut the door upon
shut the eyes of your mind
shut the eyes to
shut tight
shut up
shut up shop
shut your bazoo
shut your doors
shut your ears
shut your eyes
shut your eyes to
shut your face
shut your mouth
shut your trap
shut yourself up
shut-away
shut-eye
shut-in
shut-in personality
shut-mouthed
shut-off
shut-out
shut-out bid
shut-up
shutter box
shutter dam
shutter speed
shutter weir
shutting post
shutting stile
shutting up
shutting-in
shuttle armature
shuttle bombing
shuttle bone
shuttle box
shuttle diplomacy
shuttle flights
shuttle loading
shuttle race
shuttle raid
shuttle rocket
shuttle service
shuttle shell
shuttle train
shuttle trip
shuttle winding
shuttle-core
shuttle-core magneto
shuttle-witted
shuttle-wound
shuttlecock-flower
shutur sowar
shy at
shy away
shy of
shy of belief
shy off
shy on
shy person
si quae ris peninsulam amo
si quis
siamese cat
siamese connection
siamese joint
siamese twin
sibber sauce
sibby bean
siberian brown
siberian husky
sic at
sic on
sic passim
sic semper tyrannis
sic transit gloria mundi
sicca rupee
sick abed
sick and tired of
sick as a dog
sick at heart
sick at the stomach
sick bay
sick berth
sick call
sick fancy
sick flag
sick headache
sick humor
sick in the head
sick joke
sick leave
sick list
sick market
sick mind
sick nurse
sick of
sick on each other
sick pay
sick person
sick to the stomach
sick to your stomach
sick unto death
sick up
sick-abed
sick-bed
sick-brained
sick-fallen
sick-feathered
sick-in
sick-list
sick-nurse
sick-nursish
sick-out
sick-pale
sick-thoughted
sicken at
sicken for
sicken of
sicken with
sickle bar
sickle bender
sickle cell
sickle cell anaemia
sickle cell anemia
sickle cell disease
sickle feather
sickle ham
sickle herb
sickle hock
sickle medick
sickle of Death
sickle senna
sickle thorn
sickle-billed
sickle-billed curlew
sickle-billed thrasher
sickle-cell
sickle-cell anemia
sickle-cell disease
sickle-grass
sickle-hammed
sickle-hocked
sickle-leaved
sickle-like
sickle-shaped
sickle-tailed
sickly hue
sickly-born
sickly-colored
sickly-looking
sickly-seeming
sickly-sweet
sickly-sweetness
sickness benefit
sickness insurance
sicut patribus sit Deus nobis
side action
side aisle
side arm
side arms
side ax
side band
side bar
side beam
side bench
side bet
side box
side boy
side brake
side by side
side cap
side car
side card
side chain
side chair
side chapel
side check
side chisel
side circuit
side cut
side cutting
side delivery
side dish
side door
side drum
side effect
side face
side frequency
side hatchet
side horse
side interest
side issue
side jointer
side keelson
side ladder
side lamp
side light
side line
side meat
side mirror
side oats
side of bacon
side of controversy
side partner
side path
side prime
side reaction
side remark
side road
side room
side scene
side sewing
side step
side stitch
side street
side suit
side table
side thread stitch
side whisker
side whiskers
side wire stitch
side with
side-bar
side-bar keel
side-bar rule
side-beam engine
side-bended
side-bone
side-box
side-by-side
side-by-sideness
side-cast
side-chain theory
side-cut
side-door
side-dress
side-dressed
side-dressing
side-end
side-end line
side-flowing
side-glance
side-graft
side-handed
side-hanging
side-kick
side-lever
side-lever engine
side-light
side-line
side-liner
side-look
side-looker
side-lying
side-necked
side-on
side-post
side-saddle
side-seen
side-show
side-skip
side-slip
side-splitting
side-step
side-stepped
side-stepper
side-stepping
side-stick
side-stitched
side-table
side-taking
side-track
side-valve engine
side-view
side-walk
side-wall
side-wheel
side-wheeler
side-whiskered
side-whiskers
side-wind
side-winded
side-winder
sidearm heater
sidelight castle
sidelight tower
sidelong look
sider-
siderating plague
sidereal clock
sidereal day
sidereal hour
sidereal hour angle
sidereal minute
sidereal month
sidereal second
sidereal time
sidereal universe
sidereal year
siderin yellow
sidero-
sidesaddle flower
sideslip landing
sidewalk artist
sidewalk bike
sidewalk door
sidewalk elevator
sidewalk salesman
sidewalk superintendent
sideward motion
siding tool
siding track
sidle up to
siege artillery
siege cannon
siege carriage
siege engine
siege gun
siege howitzer
siege mortar
siege perilous
siege piece
siege train
siege wagon
siege warfare
siegfried line
sierra brownbark pine
sierra juniper
sierra plum
sierra redbark pine
sieva bean
sieve cell
sieve disk
sieve maker
sieve making
sieve out
sieve pit
sieve plate
sieve pore
sieve tissue
sieve tube
sieve vessel
sift out
sifting out
sigh for
sigh of relief
sigh-born
sighed-for
sight bill
sight draft
sight edge
sight for sore eyes
sight gag
sight land
sight line
sight on
sight point
sight reader
sight reading
sight rhyme
sight rule
sight screen
sight seeing trip
sight setter
sight unseen
sight vane
sight-feed
sight-hole
sight-read
sight-reader
sight-reading
sight-saver type
sight-see
sight-seeing
sight-seer
sight-shot
sight-unseen transaction
sighting angle
sighting hood
sighting shot
sightless eyes
sigma finite set
sigma particle
sigma-ring
sigmoid flexure
sign a petition
sign and seal
sign away
sign factor
sign for
sign in
sign language
sign manual
sign of aggregation
sign of the cross
sign of the three balls
sign of the times
sign of the zodiac
sign off
sign on
sign on the dotted line
sign out
sign over
sign painter
sign painting
sign up
sign up for
sign your death warrant
sign your note
sign-board
sign-manual
sign-off
sign-post
signal alarm
signal beacon
signal bell
signal board
signal box
signal corps
signal display
signal fades
signal fire
signal flag
signal flare
signal generator
signal gong
signal gun
signal halyard
signal lamp
signal lantern
silent barter
silent butler
silent cataracts
silent chain
silent consent
silent discharge
silent film
silent majority
silent partner
silent poetry
silent prayer
silent service
silent trade
silent treatment
silic-
silica brick
silica gel
silica glass
silica ware
silicate cotton
silicate paint
silicated soap
siliceo-
silici-
silicic acid
silicified wood
silicum bronze
silico-
silicon bronze
silicon carbide
silicon controlled rectifier
silicon copper
silicon dioxide
silicon fluoride
silicon hydride
silicon nitrimide
silicon spiegel
silicon star
silicon steel
silicon tetrachloride
silicon tetraethyl
silicon tetrafluoride
silicone resin
silicone rubber
silk cotton
silk coverer
silk discharger
silk floss
silk fowl
silk gelatin
silk gland
silk glue
silk gown
silk grass
silk green
silk gum
silk hat
silk louse
silk mercer
silk mill
silk moth
silk muslin
silk oak
silk paper
silk plant
silk serge
silk snapper
silk spider
silk spinner
silk stocking
silk stockings
silk stretcher
silk tartan
silk tester
silk thrower
silk throwster
silk tree
silk vine
silk weaver
silk wire
silk-bark
silk-bark oak
silk-cotton
silk-cotton family
silk-cotton tree
silk-family
silk-gownsman
silk-hatted
silk-robed
silk-screen
silk-screen artist
silk-screen printing
silk-screen process
silk-skirted
silk-soft
silk-stocking
silk- stocking district
silk- stocking politics
silk- stocking ward
silk- stockinged
silk- tail
silk- tassel tree
silk- winder
silken repose
silken-coated
silken-fastened
silken-leafed
silken- sailed
silken- sandaled
silken- shining
silken- soft
silken- threaded
silken- winged
silking machine
silkscreen process
silkworm gut
silkworm jaundice
silkworm moth
silkworm rot
silkworm seed
silky anteater
silky camellia
silky cornel
silky grass
silky oak
silky swallowwort
silky terrier
silky- barked
silky- black
silky- haired
silky- leaved
silky- looking
silky- smooth
silky- soft
silky- textured
silky- voiced
sill cock
sill course
sill floor
sill- like
silly Billy
silly about
silly ass
silly grin
silly over
silly season
silly smilesilly-billy
silly-faced
silly-facedly
silly-shally
silo filler
silt grass
silt up
siluro-
silver age
silver bass
silver beard grass
silver bell
silver birch
silver bromide
silver cat
silver certificate
silver chloride
silver citrate
silver cord
silver cyanide
silver dollar
silver fir
silver fish
silver fizz
silver fluoride
silver foil
silver fox
silver frost
silver fulminate
silver gilt
silver grain
silver grass
silver gray
silver green
silver hair
silver hake
silver iodate
silver iodide
silver jenny
silver jubilee
silver king
silver kings
silver lace
silver lactate
silver lead
silver leaf
silver lining
silver maple
silver medal
silver mill
silver mine
silver miner
silver mining
silver morning-glory
silver nitrate
silver ore
silver oxide
silver paper
silver perch
silver plate
silver plater
silver plating
silver point
silver polish
silver powder
silver protein
silver queen
silver sage
silver salmon
silver salt
silver screen
silver smelter
silver spoon
silver standard
silver star medal
silver storm
silver thaw
silver threads among the gold
silver tin
silver tongue
silver vine
silver vitellin
silver wattle
silver wedding
silver wedding anniversary
silver white
silver-backed
silver-bar
silver-bar fish
silver-barked
silver-barred
silver-bearded
silver-bearing
silver-bell
silver-bell tree
silver-black
silver-bordered
silver-bright
silver-buskined
silver-chased
silver-chiming
silver-clasped
silver-clear
silver-coated
silver-colored
silver-coloured
silver-copper
silver-corded
silver-cupped
silver-eddied
silver-embroidered
silver-eye
silver-eyed
silver-eyes
silver-feathered
silver-fleeced
silver-flowing
silver-footed
silver-fork
silver-fronted
silver-glittering
silver-golden
silver-grained
silver-gray
silver-grey
silver-hafted
silver-haired
silver-handled
silver-headed
silver-lace vine
silver-laced
silver-lead
silver-leafed
silver-leaved
silver-leaved linden
silver-leaved nightshade
silver-lined
silver-mail
silver-melting
silver-mounted
silver-penciled
silver-plate
silver-plated
silver-plating
silver-print drawing
silver-producing
silver-rag
silver-rimmed
silver-shafted
silver-shedding
silver-shining
silver-smitten
silver-sounded
silver-sounding
silver-spangled
silver-spoon
silver-spoonism
silver-spotted
silver-streaming
silver-striped
silver-studded
silver-sweet
silver-swelling
silver-thread
silver-thread blight
silver-thrilling
silver-tipped
silver-toned
silver-tongue
silver-tongued
silver-tongued orator
silver-true
silver-tuned
silver-using
silver-voiced
silver-washed
silver-winged
silver-wiry
silver-work
silverberry family
silverleaf boree
silverleaf linden
silverleaf maple
silverleaf poplar
silverleaf redwood
silvertop palmetto
silverwing gray
silvery hair
silvery moon
silvi-
simblin cake
simchas torah
simian shelf
similar sound
similar sounding
similarity transformation
simile mark
similia similibus curantur
simmer down
simmel cake
simon legree
simon pure
simon-pure
simple Fink truss
simple algebra
simple algebraic extension
simple arc
simple as ABC
simple assault
simple chancre
simple circularity
simple closed curve
simple contract
simple diet
simple enumeration
simple equation
simple extension
simple fact
simple fraction
simple fracture
simple fruit
simple harmonic motion
simple honors
simple idea
simple inflammation
simple interest
simple interval
simple larceny
simple machine
simple majority
simple measure
simple microscope
simple motion
simple pole
simple protein
simple radical
simple reflex
simple sentence
simple soul
simple syrup
simple tense
simple time
simple transcendental extension
simple twist of the wrist
simple variable
simple vow
simple-armed
simple-faced
simple-headed
simple-hearted
simple-leaved
simple-life
simple-lifer
simple-mannered
simple-minded
simple-mindedly
simple-mindedness
simple-rooted
simple-seeming
simple-speaking
simple-stemmed
simple-toned
simple-tuned
simple-witted
simple-wittedness
simplex method
simplex telegraphy
simply and solely
simply connected
simply ordered
simply ordered set
simply-connected
simulated rank
simultaneous equations
sin against the Holy Ghost
sin eater
sin eating
sin money
sin of Adam
sin of commission
sin of omission
sin of pride
sin offering
sin rent
sin-absolved
sin-absolving
sin-afflicting
sin-black
sin-born
sin-bred
sin-burdened
sin-burthened
sin-chastising
sin-clouded
sin-concealing
sin-condemned
sin-consuming
sin-crushed
sin-drowned
sin-guilty
sin-indulging
sin-laden
sin-loving
sin-mortifying
sin-offering
sin-proud
sin-revenging
sin-sick
sin-sickness
sin-soiling
sin-sowed
sin-thralled
sin-washing
sin-wounded
sinay bean
since God knows when
since Hector was a pup
since days of yore
since long ago
since the world was made
since the world was young
since the year one
since time began
sincere friendship
sindbad the sailor
sine bar
sine curve
sine die
sine galvanometer
sine law
sine mechanism
sine prole
sine qua non
sine wave
sine-qua-nonical
sine-qua-noniness
sine-wave
sinew-backed
sinew-grown
sinew-shrunk
sinful act
sing a different tune
sing a familiar tune
sing deathless songs
sing in chorus
sing in the shrouds
sing out
sing praises
sing small
sing the blues
sing the praise of
sing the praises of
sing the same old song
sing the same old tune
sing your own praises
sing your praises
sing-in
sing-sing
sing-song
singhara nut
singing bird
singing book
singing bread
singing club
singing lesson
singing master
singing part
singing psalm
singing school
singing society
singing teacher
singing voice
single Spanish burton
single bed
single blessedness
single block
single bond
single combat
single condition
single crochet
single cut
single doubler
single entry
single file
single girl
single knot
single man
single messages
single microscope
single mordent
single out
single person
single purchase
single quotation marks
single quotes
single reed
single rhyme
single sap
single sculls
single shell
single sideband
single sideband transmission
single space
single standard
single state
single step rocket
single stitch
single system
single tackle
single tape
single tax
single taxer
single ticket
single transfer
single transferrable vote
single voice
single vote
single voting
single whip
single wicket
single wing
single wingback formation
single woman
single-acting
single-acting engine
single-action
single-action engine
single-bank
single-banked
single-barrel
single-barreled
single-barrelled
single-beat
single-bitted
single-blind
single-blossomed
single-bodie
single-branch
single-breasted
single-breasted jacket
single-breasted suit
single-button carbon microphone
single-caped
single-cell
single-celled
single-chamber
single-colored
single-combed
single-crest
single-cross
single-crested
single-crop
single-cross telegraphy
single-current
single-cut
single-cutting
single-cylinder
single-deck
single-decker
single-disk
de single-dotted
de single-driver
de single-edged
de single-end
de single-ended
single-entry
single-entry accounting
single-entry bookkeeping
de single-eyed
single-file
single-filed
single-fringed
single-fire
single-flowered
single-foot
single-footer
single-framed
single-fringed
single-gear
single-grown
single-handed
single-handedly
single-handedness
single-hander
single-headed
single-hearted
single-heartedly
single-heartenedness
single-hoofed
single-hooked
single-horned
single-horsed
single-hung
single-jet
single-layer
single-layered
single-leaded
single-leaf
single-leaf ash
single-leaved
single-lens reflex
single-letter
single-lever
single-light
single-line
single-living
single-loader
single-masted
single-measure
single-member
single-member constituency
single-member district
single-minded
single-mindedly
single-mindedness
single-motored
single-mouthed
single-name
single-name paper
single-nerved
single-pass
single-pen
single-phase
single-phase alternating current
single-phase motor
single-phaser
single-piece
single-pitched
single-plated
single-ply
single-pointed
single-pole
single-prop
single-punch
single-rail
single-reed
single-reed instrument
single-reefed
single-rivet
single-riveted
single-row
single-screw
single-seated
single-seater
single-seed
single-seed cucumber
single-seeded
single-shear
single-sheaved
single-shooting
single-shot
single-soled
single-space
single-speech
single-stage
single-stage rocket
single-step
single-stepped
single-stick
single-stitch
single-strand
single-strength
single-stroke
single-surfaced
single-swing
single-swing joint
single-tap
single-tax
single-thoughted
single-threaded
single-throw
single-throw switch
single-tongue
single-tonguing
single-track
single-tree
single-trip
single-trunked
single-twist
single-twisted
single-valued
single-walled
single-wheel
single-wheeled
single-whip
single-whip tackle
single-wicket
single-wire
single-wired
singled out
singled-out
singleness of heart
singleness of purpose
singles court
singular point
singular proposition
sinister influence
sinister-handed
sinistro-
sink away
sink back
sink boat
sink box
sink down
sink in
sink in the mind
sink into despair
sink into oblivion
sink into the mind
sink like lead
sink money in
sink of corruption
sink of iniquity
sink or swim
sink or swim with
sink your soul
sink-hole
sink-stone
sinker bar
sinker boat
sinker drill
sinker wood
sinkhole drainage
sinking bowl
sinking fund
sinking head
sinking heart
sinking speed
sinking stomach
sinking-fund
sinking-fund bond
sinking-fund payment
sinn fein
sino-
sino-tibetan
sinoatrial node
sinuate-leaved
sinuato-
sinumbra lamp
sinuos-
sinus arrhythmia
sinus band
sinus node
sinusoidal circuit
sinusoidal projection
siphon alga
siphon barometer
siphon bottle
siphon condenser
siphon cup
siphon gauge
siphon off
siphon recorder
siphon slide
siphon spillway
siphono-
sir-reverence
sirdar bearer
sire-found
siren song
sirloin steak
sirup sorghum
sisal hemp
siskin parrot
sissy-pants
sister block
sister cell
sister fold
sister hook
sister keelson
sister rib
sister ship
sister-german
sister-in-law
sister-wife
sisters under the skin
sit around
sit at
sit at the feet of
sit back
sit bolt upright
sit by
sit down
sit down at the bargaining table
sit down on
sit down together
sit down with
sit in
sit in for
sit in judgment
sit in on
sit it out
sit on
sit on a barrel of gunpowder
sit on the dais
sit on the fence
sit on the sidelines
sit on the tail of
sit on the throne
sit on your ass
sit on your butt
sit on your duff
sit on your hands
sit out
sit over
sit pretty
sit shibah
sit tight
sit under
sit up
sit up and take notice
sit up for
sit upon
sit upon thorns
sit well with one
sit well with you
sit-down
sit-down strike
sit-downer
sit-fast
sit-in
sit-up
sit-upon
sitdown striker
site development
site land
sitio-
sitka spruce
sito-
sitter-by
sitter-in
sitter-out
sitting day
sitting duck
sitting height
sitting place
sitting room
sitting shot
sitting tenant
sitting trot
situation comedy
situation ethics
situational neurosis
situational psychosis
situs inversus
sitz bath
siva snake
siva-siva
siwash sweater
six and two threes
six feet above contradiction
six feet under
six o’clock
six point
six ways from Sunday
six-acre
six-angled
six-arched
six-banded
six-bar
six-barred
six-barreled
six-bottle
six-by-six
six-canted
six-cent
six-chambered
six-colored
six-cornered
six-coupled
six-course
six-cut
six-cylinder
six-cylindere
six-day
six-dollar
six-earer
six-edged
six-eight
six-eight time
six-ell
six-eyed
six-faced
six-figure income
six-figured
six-fingered
six-flowered
six-foiled
six-foot
six-footed
six-footer
six-gallon
six-gated
six-gilled
six-gilled shark
six-grain
six-gram
six-gun
six-headed
six-hoofed
six-horse
six-hour
six-inch
six-jointed
six-leaved
six-legged
six-letter
six-lettered
six-lined
six-lobed
six-masted
six-master
six-mile
six-minute
six-mouth
six-o-six
six-oared
six-o'clock
six-ounce
six-pack
six-part-time
six-petaled
six-phase
six-plumed
six-ply
six-pointed
six-pointed-star
six-pot
six-pound
six-pounder
six-ranked
six-rayed
six-ribbed
six-room
six-roomed
six-rowed
six-second
six-shafted
six-shared
six-shilling
six-shooter
six-sided
six-spined
six-spot
six-spotted
six-storied
six-story
six-stringed
six-striped
six-syllable
six-three-three
six-time
six-ton
six-week
six-weeks-grass
six-wheel
six-wheeled
six-wheeler
six-winged
six-yard
six-yard-area
six-yard-line
six-year
six-year-old
sixpenny bit
sixteen-foot
sixteen-foot stop
sixteen-pounder
sixteenth note
sixteenth rest
sixth chord
sixth column
sixth form
sixth nerve
sixth sense
sixth-floor
sixth-form
sixth-grade
sixth-rate
sixty per cent
sixty-eight
sixty-eighth
sixty-fifth
sixty-first
sixty-five
sixty-four
sixty-four-dollar question
sixty-fourmo
sixty-fourmos
sixty-fourth
sixty-fourth note
sixty-fourth rest
sixty-nine
sixty-ninth
sixty-one
sixty-second
sixty-seven
sixty-seventh
sixty-six
sixty-sixth
sixty-third
sixty-three
sixty-two
size bone
size roll
size stick
size up
size up your measure
sizer die
sizer tap
sizing tool
sizing up
sizzling heat
sizzling hot
skate on thin ice
skate over
skate sailing
skating rink
skean dhu
skee-ball
skeel duck
skeel goose
skeeling goose
skeen arch
skeet shooting
skeleto-
skeleton at the feast
skeleton clock
skeleton company
skeleton construction
skeleton dance
skeleton drill
skeleton girder
skeleton in the closet
skeleton in the cupboard
skeleton key
skeleton leaf
skeleton movement
skeleton pattern
skeleton proof
skeleton regiment
skeleton shrimp
skeleton suit
skelic index
skelpie-limmer
skene arch
skene dhu
sketch book
sketch map
sketch out
sketch plan
sketch plate
sketch-book
skew arch
skew chisel
skew distribution
skew field
skew polygon
skew putt
skew table
skew-back
skew-gee
skew-jawed
skew-symmetric
skewed judgment
skewer-up
ski boot
ski boots
ski bum
ski jacket
ski jump
ski landing gear
ski lift
ski pants
ski pole
ski run
ski stick
ski suit
ski sweater
ski tow
ski troops
ski wax
ski-jumping
ski-plane
skia-
skid box
skid chain
skid engine
skid fin
skid landing gear
skid platform
skid road
skid row
skid to a stop
skid-row bum
skidding hooks
skidding sled
skidding trail
skiffle band
skill facet
skill with language
skill with words
skill-less
skill-lessness
skilled hand
skilled in
skilled laborer
skilled workman
skillet chopper
skim coat
skim colter
skim gate
skim milk
skim off
skim over
skim the surface
skim through
skim-coulter
skim-milk
skimble-scamble
skimble-samble
skimmed milk
skimmer cake
skimmer gate
skimmer scoop
skimming back
skimming dish
skimming gate
skimming-dish
skimmington ride
skimper-scamper
skin alive
skin and bones
skin beetle
skin boat
skin book
skin cancer
skin coat
skin color
skin coloring
skin disease
skin dive
skin diver
skin diving
skin effect
skin eruption
skin flick
skin food
skin friction
skin friction drag
skin game
skin graft
skin grafting
skin layer
skin man
skin mark
skin nose
skin out
skin planing
skin resistance
skin spot
skin test
skin tone
skin wool
skin-breaking
skin-built
skin-clad
skin-clipping
skin-deep
skin-devouring
skin-dive
skin-dived
skin-diver
skin-diving
skin-dove
skin-peeled
skin-piercing
skin-plastering
skin-pop
skin-popping
skin-shifter
skin-spread
skin-testing
skin-tight
skinned alive
skinning alive
skinning knife
skinning loam
skinny as a lath
skinny as a rail
skinny dip
skinny dipper
skinny-dip
skinny-dipped
skinny-dipper
skinny-dipping
skinny-dipt
skinny-necked
skip bail
skip bomb
skip bridge
skip car
skip distance
skip elevator
skull-cap
skull-covered
skull-crowned
skull-dividing
skull-hunting
skull-less
skull-like
skull-lined
skullcap speedwell
skunk bear
skunk bird
skunk blackbird
skunk cabbage
skunk currant
skunk grape
skunk mushroom
skunk plant
skunk porpoise
skunk spruce
skunk turtle
skunk-drunk
skunk-headed
skunkhead coot
sky advertising
sky an oar
sky atlas
sky blue
sky compass
sky cover
sky dive
sky diver
sky diving
sky drain
sky farmer
sky gazer
sky gray
sky hooker
sky iron
sky line
sky map
sky marker
sky parlor
sky pilot
sky pipit
sky screen
sky shade
sky sign
sky train
sky truck
sky wave
sky-aspiring
sky-blasted
sky-blue
sky-blue pink
sky-born
sky-bred
sky-capped
sky-cast
sky-clad
sky-clear
sky-cleaving
sky-climbing
sky-color
sky-colored
sky-dive
sky-diving
sky-dome
sky-dyed
sky-elephant
sky-engendered
sky-facer
sky-falling
sky-gazer
sky-god
sky-high
sky-kissing
sky-line
sky-line logging
sky-measuring
sky-planted
sky-reaching
sky-rending
sky-resembling
sky-rocket
sky-ruling
sky-sail
sky-scaling
sky-scraper
sky-sign
sky-throned
sky-tinctured
sky-touching
sky-worn
skye terrier
skyhook balloon
skysail mast
skysail pole
skysail yard
skysail-yarder
slab bridge
slab dashing
slab house
slab line
slab mill
slab pahoehoe
slab plastering
slab reef
slab tie
slab top
slab-sided
slab-sidedly
slab-sidedness
slabbing cutter
slabbing machine
slabbing mill
slack back
slack barrel
slack coal
slack cooperage
slack filling
slack jaw
slack off
slack purse strings
slack suit
slack up
slack water
slack-bake
slack-baked
slack-filled
slack-jawed
slack-laid
slack-off
slack-rope
slack-rope artist
slack-salted
slack-spined
slack-twisted
slack-up
slack-water
slag cement
slag concrete
slag down
slag furnace
slag heap
slag hearth
slag sand
slag wool
slag-hearth
slag-lead
slag-tap furnace
slagging furnace
slagging hole
slake trough
slake your thirst
slaked lime
slam bidding
slam into
slam the door in your face
slam-bang
slamming stile
slang dictionary
slang-whang
slang-whanger
slanging match
slant across
slant culture
slant dam
slant front
slant height
slant of wind
slant rhyme
slant-eye
slant-eyed
slant-top
slanting hand
slap a tax on
slap around
slap at
slap dashing
slap down
slap in the face
slap in the middle
slap of the glove
slap on
slap on paint
slap on the wrist
slap plastering
slap the face
slap the lid on
slap up
slap you in the face
slap your face
slap-bang
slap-bang shop
slap-dab
slap-dash
slap-sided
slap-slap
slap-up
slapstick comedian
slapstick comedy
slapstick humor
slapstick quality
slash across
slash bar
slash mark
slash pine
slash pocket
slash the throat
slash-grain
slash-saw
slash-sawed
slash-sawing
slash-sawn
slat bonnet
slat sign
slat-back
slate ax
slate bed
slate black
slate blue
slate cement
slate clay
slate galiot
slate gray
slate green
slate olive
slate pencil
slate picker
slate purple
slate roof
slate spar
slate splitter
slate writer
slate writing
slate-beveling
slate-brown
slate-color
slate-colored
slate-colour
slave-peopled
slave-trade
slaver over
slavo-
slay en masse
sleave silk
sleave-silk
sled cultivator
sled dog
sled harvester
sled knife
sled lister cultivator
sled marker
sled part
sled-log
sledge chair
sledge dog
sledge hammer
sledge-hammer
sleek stone
sleek-browed
sleek-faced
sleek-haired
sleek-headed
sleek-leaf
sleek-looking
sleek-skinned
sleeker-up
sleep around
sleep at your post
sleep drink
sleep in
sleep it off
sleep like a log
sleep like a top
sleep like the dead
sleep movement
sleep movements
sleep of the just
sleep off
sleep on
sleep on a volcano
sleep out
sleep soundly
sleep talker
sleep talking
sleep together
sleep treatment
sleep upon
sleep with
sleep with one eye open
sleep with the Lord
sleep with your ancestors
sleep with your fathers
sleep-at-noon
sleep-bedeaefened
sleep-bringer
sleep-bringing
sleep-causing
sleep-compelling
sleep-created
sleep-desiring
sleep-dewed
sleep-dispelling
sleep-disturbing
sleep-drowned
sleep-drunk
sleep-enthralled
sleep-fatted
sleep-fearing
sleep-filled
sleep-heavy
sleep-in
sleep-inducer
sleep-inducing
sleep-inviting
sleep-loving
sleep-procuring
sleep-producer
sleep-producing
sleep-provoker
sleep-provoking
sleep-resisting
sleep-soothing
sleep-stuff
sleep-swollen
sleep-tempting
sleep-walker
sleeper goby
sleeper shark
sleeping around
sleeping bag
sleeping beauty
sleeping car
sleeping carriage
sleeping chair
sleeping disease
sleeping draught
sleeping fire
sleeping partner
sleeping pill
sleeping place
sleeping policeman
sleeping porch
sleeping rent
sleeping room
sleeping sickness
sleeping suit
sleeping table
sleeping together
sleeping with
sleepless eye
sleepy Dick
sleepy disease
sleepy sickness
sleepy-acting
sleepy-eyed
sleepy-eyes
sleepy-headed
sleepy-headedness
sleepy-looking
sleepy-souled
sleepy-sounding
sleepy-voiced
sleet wheel
sleeve axle
sleeve board
sleeve brick
sleeve button
sleeve dog
sleeve link
sleeve links
sleeve nut
sleeve target
sleeve valve
sleeve waistcoat
sleeve-defended
sleeve-hidden
sleigh bed
sleigh bell
sleigh bells
sleigh cutter
sleight of hand
sleight-of-hand
sleight-of-hand artist
sleight-of-hand performer
sleight-of-hand trick
slender as a thread
slender blind snake
slender blue flag
slender loris
slender means
slender-ankled
slender-armed
slender-beaked
slender-billed
slender-bladed
slender-bodied
slender-branched
slender-fingered
slender-finned
slender-flanked
slender-flowered
slender-footed
slender-hipped
slender-jawed
slender-jointed
slender-leaved
slender-legged
slender-limbed
slender-looking
slender-muzzled
slender-nosed
slender-podded
slender-shafted
slender-shouldered
slender-spiked
slender-stalked
slender-stemmed
slender-striped
slender-tailed
slender-toed
slender-trunked
slender-waisted
slender-witted
slenderness ratio
sleuth-hound
slew rope
slew-eyed
slubber-sauce
slice bar
slice galley
slice of life
slice the melon
slice the pie
slice up
slick as a whistle
slick chick
slick citizen
slick down
slick magazine
slick on
slick stone
slick up
slick-ear
slick-faced
slick-haired
slick-looking
slick-spoken
slick-talking
slick-tongued
slicked up
slicker hat
slide back
slide bar
slide block
slide box
slide bridge
slide caliper
slide down
slide fastener
slide film
slide into
slide knot
slide lathe
slide off
slide out of
slide over
slide pole
slide projector
slide rail
slide rest
slide rod
slide rule
slide shaft
slide stacker
slide tongs
slide tool
slide trombone
slide valve
slim-jim
slim-leaved
slim-limbed
slim-shanked
slim-spired
slim-trunked
slim-waisted
slime eel
slime flux
slime fungus
slime mold
slime mould
slime pit
slime table
slime thickening
slime-begotten
slime-browned
slime-coated
slime-filled
slime-secreting
slime-washed
slimy-backed
sling at
sling cart
sling chair
sling dog
sling hash
sling off
sling psychrometer
sling pump
sling rope
sling stay
sling strap
sling the lead
sling thermometer
sling trot
sling unloader
sling-
slinger ring
slink butcher
slink in
slink lamb
slink off
slip 'twixt cup and lip
slip a cog
slip away
slip back
slip by
slip carriage
slip cheese
slip cloth
slip clutch
slip coach
slip coupling
slip cover
slip curd
slip dock
slip down
slip friction
slip friction clutch
slip gauge
slip glaze
slip grab
slip hook
slip in
slip indicator
slip into
slip jaw
slip joint
slip key
slip kiln
slip knot
slip line
slip mortise
slip noose
slip of the pen
slip of the tongue
slip off
slip on
slip one over on
slip out
slip out of
slip over
slip panel
slip proof
slip rail
slip regulator
slip ring
slip road
slip rope
slip seat
slip shackle
slip share
slip sheet
slip sill
slip skid
slip something over on
slip spring
slip stem
slip stitch
slip stopper
slip stream
slip switch
slip tap
slip the
slip the cable
slip the collar
slip the memory
slip through
slip through your fingers
slip through your hands
slip tongue
slip up
slip ware
slip washer
slip wool
slip you a Mickey
slip you a Mickey Finn
slip your cable
slip your mind
slip-
slip-along
slip-knot
slip-on
slip-rail
slip-ring
slip-sheet
slip-shelled
slip-shoe
slip-skin
slip-slop
slip-stitch
slip-string
slip-tongue wheel
slip-top
slip-up
slip-way
slipcoat cheese
slipe wool
slipped disc
slipped disk
slipped tendon
slipped wing
slipper animalcule
slipper animalcules
slipper bath
slipper block
slipper boat
slipper brake
slipper chair
slipper drag
slipper foot
slipper limpet
slipper orchid
slipper piston
slipper plant
slipper satin
slipper shell
slipper sock
slipper-foxed
slipper-root
slipper-shaped
slippered ease
slippery as an eel
slippery dip
slippery elm
slippery-bellied
slippery-breeched
slippery-looking
slippery-shod
slippery-sleek
slippery-tongued
slipping away
slipping back
slipshod construction
slit band
slit deal
slit lamp
slit pocket
slit skirt
slit tapestry
slit trench
slit-drum
slit-eared
slit-eyed
slit-footed
slit-nosed
slit-shaped
slither off
slitting file
slitting machine
slitting saw
slitting shears
sliver box
slob ice
slob land
slobber over
slobber-chops
stocking stone
sloe gin
sloe plum
sloe thorn
sloe-black
sloe-blue
sloe-colored
sloe-eyed
slog away
slog on
sloop of war
sloop rig
sloop yacht
sloop-rigged
slop around
slop basin
slop book
slop bowl
slop chest
slop chute
slop cloth
slop dealer
slop frock
slop hand
slop jar
slop man
slop merchant
slop molding
slop on paint
slop out
slop over
slop padding
slop pail
slop room
slop sink
slop-built
slop-molded
slop-over
slop-seller
slop-shop
slop-work
slope arms
sloped downward
sloped upward
sloppy Joe
sloppy joe
slosh wheel
slot and filler
slot burner
slot conveyer
slot driller
slot file
slot machine
slot man
slot mortise
slot rail
slot washer
slot winding
slot-boring
slot-drill
slot-drilling
slot-drilling machine
slot-headed
slot-spike
sloth animalcule
sloth bear
sloth monkey
sloth tree
slotting auger
slotting drill
slotting end mill
slotting file
slotting machine
slouch around
slouch hat
slough bass
slough grass
slough ice
slough of despond
slough off
slough over
slovenly performance
slow ahead
slow and careful steps
slow as death
slow as molasses
slow as slow
slow astern
slow burn
slow coach
slow down
slow goer
slow handclap
slow loris
slow march
slow market
slow match
slow motion
slow neutron
slow off the mark
slow person
slow pile
slow starter
slow time
slow to
slow to act
slow to commit yourself
slow to make your move
slow up
slow-back
slow-belly
slow-blooded
slow-breathed
slow-breathing
slow-breeding
slow-burning
slow-circling
slow-coach
slow-combustion
slow-conceited
slow-consuming age
slow-contact
slow-crawling
slow-creeping
slow-developed
slow-drawing
slow-drawn
slow-driving
slow-ebbing
slow-endavoring
slow-extinguished
slow-eyed
slow-fingered
slow-foot
slow-footed
slow-gaited
slow-going
slow-growing
slow-legged
slow-march
slow-mettled
slow-motion
slow-moving
slow-paced
slow-poky
slow-run
slow-running
slow-sailing
slow-speaking
slow-speeched
slow-spirited
slow-spoken
slow-stepped
slow-sudden
slow-sure
slow-thinking
slow-time
slow-tongued
slow-tuned
slow-up
slow-winged
slow-witted
slow-wittedness
slow-worm
slowed down
slower than the seven-year itch
slowing down
slowness to act
slubber de gullion
slubber over
slubbing billy
slubbing machine
sludge acid
slue rope
slue-footed
slug caterpillar
slug horn
slug snail
slug worm
slug-a-bed
slug-abed
slug-horn
slug-worm
slugging average
slugging machine
slugging match
slugging percentage
sluice box
sluice gate
sluice out
sluice valve
slum clearance
slum-dwellers
slumber party
slumber-bound
slumber-bringing
slumber-closing
slumber-loving
slumber-seeking
slumber-wrapt
slump cone
slump down
slump test
slung shot
slur over
slurp up
slush casting
slush fund
slush lamp
slush-cast
slushing oil
slut's wool
sly dog
sly grog
sly look
sly suggestion
sly-boots
sly-eyed
sly-goose
sly-grog
sly-looking
sly-tongued
sma-boukit
smack boat
smack in the middle
smack into
smack of
smack the lips
smack your lips
smack-dab
smack-dab in the middle
smacking of
small ale
small amount
small arm
small arms
small beer
small boat
small bond
small bower
small boy
small burgh
small business
small businessman
small calorie
small cane
small cap
small capital
small chance
small change
small chop
small circle
small claims court
small clothes
small coal
small cranberry
small debt
small end
small fry
small game
small goods
small ham
small honeysuckle
small hope
small hours
small intestine
small letter
small matter
small number
small-debts court
small-diameter
small-drink
small-eared
small-eyed
small-faced
small-feed
small-finned
small-flowered
small-footed
small-framed
small-fruitied
small-fry
small-grain
small-grained
small-habited
small-handed
small-headed
small-hipped
small-horned
small-jointed
small-leaved
small-letter
small-lettered
small-limbed
small-looking
small-lunged
small-minded
small-mindedly
small-minedness
small-nailed
small-natured
small-paneled
small-paper
small-part
small-pattern
small-petaled
small-pored
small-preferred
small-reasoned
small-scale
small-scaled
small-shelled
small-size
small-sized
small-souled
small-spaced
small-spotted
smart-witted
smarten up
smarty-pants
smash all opposition
smash hit
smash in
smash into
smash piece
smash the atom
smash up
smash-and-grab
smash-up
smashboard signal
smasher hammer
smasher hat
smashing defeat
smashing machine
smattering of ignorance
smattering of knowledge
smear campaign
smear culture
smear dab
smear dock
smear on
smear test
smear ware
smear word
smear-dab
smear-sheet
smegma bacillus
smell a rat
smell around
smell bad
smell good
smell in the wind
smell of
smell of decay
smell of the lamp
smell out
smell sweet
smell to heaven
smell to high heaven
smell up
smell-feast
smell-less
smell-lessness
smell-smock
smeller-out
smelling bottle
smelling salts
smelling-stick
smelt-
smick-smack
smick-smock
smiddy-leaves
smilax family
smile at
smile brightly
smile of recognition
smile upon
smile-covering
smile-frowning
smile-tuned
smile-wreathed
smileage book
smiled-out
smiles of fortune
smiling reception
smiling sleep
smiling wakerobin
smite hip and thigh
smithing coal
smithy coal
smiting line
smitten with
smitten with death
smock frock
smock marriage
smock mill
smock windmill
smock-faced
smock-frock
smock-frocked
smoke agent
smoke arch
smoke ball
smoke blue
smoke bomb
smoke cat
smoke chamber
smoke curtain
smoke dome
smoke explosion
smoke gray
smoke grenade
smoke helmet
smoke hole
smoke jumper
smoke kiln
smoke like a chimney
smoke like a furnace
smoke out
smoke passage
smoke pipe
smoke plant
smoke pot
smoke proof
smoke quartz
smoke rocket
smoke room
smoke sail
smoke screen
smoke shelf
smoke shop
smoke stop
smoke talk
smoke the pipe of peace
smoke tree
smoke washer
smoke-ball
smoke-begotten
smoke-black
smoke-bleared
smoke-blinded
smoke-blue
smoke-bound
smoke-brown
smoke-burning
smoke-colored
smoke-condensing
smoke-consuming
smoke-consumptive
smoke-cure
smoke-curing
smoke-dried
smoke-dry
smoke-drying
smoke-dyed
smoke-eater
smoke-eating
smoke-enrolled
smoke-exhaling
smoke-filled
smoke-filled room
smoke-gray
smoke-grimed
smoke-hole
smoke-jack
smoke-laden
smoke-oh
smoke-paint
smoke-pennoned
smoke-preventing
smoke-preventive
smoke-selling
smoke-smothered
smoke-sodden
smoke-stack
smoke-stained
smoke-torn
smoke-vomiting
smoke-wreathed
smoke-yellow
smoked glass
smoked glasses
smoked herring
smoked rubber
smokeless powder
smokeless powder rocket
smokeless zone
smoking bean
smoking car
smoking compartment
smoking concert
smoking duck
smoking habit
smoking hot
smoking jacket
smoking lamp
smoking opium
smoking room
smoking stand
smoking tobacco
smoking-concert
smoking-room
smoky quartz
smoky topaz
smoky-bearded
smoky-blue
smoky-colored
smoky-flavored
smoky-looking
smoky-smelling
smoky-tinted
smoky-waving
smoldering fire
smoot hole
smooth as a baby's ass
smooth as a billiard ball
smooth as glass
smooth bore
smooth breathing
smooth citizen
smooth coat
smooth down
smooth flounder
smooth hound
smooth it over
smooth muscle
smooth out
smooth over
smooth plane
smooth road
smooth sailing
smooth snake
smooth sumac
smooth surface
smooth talker
smooth temper
smooth the path
smooth the road
smooth the ruffled brow of care
smooth the way
smooth the way for
smooth wine
smooth winterberry
smooth your feathers
smooth your ruffled
smooth-ankled
smooth-barked
smooth-bedded
smooth-bellied
smooth-billed
smooth-bodied
smooth-browed
smooth-cast
smooth-cheeked
smooth-chinned
smooth-clouded
smooth-coated
smooth-coil
smooth-combed
smooth-core
smooth-crested
smooth-cut
smooth-dittied
smooth-edged
smooth-face
smooth-faced
smooth-famed
smooth-fibered
smooth-finned
smooth-flowing
smooth-foreheaded
smooth-fronted
smooth-fruited
smooth-gliding
smooth-going
smooth-grained
smooth-haired
smooth-handed
smooth-headed
smooth-hewn
smooth-leaved
smooth-legged
smooth-limbed
smooth-looking
smooth-necked
smooth-nosed
smooth-paced
smooth-plastered
smooth-podded
smooth-polished
smooth-riding
smooth-rimmed
smooth-rinded
smooth-rubbed
smooth-running
smooth-sculptured
smooth-shaven
smooth-sided
smooth-skinned
smooth-sliding
smooth-soothing
smooth-sounding
smooth-speaking
smooth-spoken
smooth-stalked
smutty-nosed
smutty-yellow
snack bar
snack stool
snack table
snaffle bit
snaffle-bridled
snaffle-mouthed
snaffle-reined
snag boat
snag tooth
snag tree
snaggle-toothed
snail bore
snail borer
snail cloud
snail clover
snail countersink
snail fever
snail horn
snail medic
snail plant
snail shell
snail trefoil
snail wheel
snail's pace
snail-horned
snail-like
snail-likeness
snail-paced
snail-seed
snail-shell
snail-slow
snake bearer
snake bite
snake blenny
snake boat
snake buzzard
snake cactus
snake cane
snake charmer
snake crane
snake cucumber
snake dance
snake doctor
snake eel
snake eggplant
snake eyes
snake feeder
snake fence
snake fern
snake fly
snake foot
snake gentian
snake gourd
snake guide
snake hole
snake idol
snake in the grass
snake juice
snake killer
snake leaf
snake lily
snake line
snake mackerel
snake medicine
snake melon
snake moss
snake nut
snake oil
snake palm
snake pit
snake star
snake violet
snake wire
snake worship
snake worshiper
snake's head
snake's-head
snake-bitten
snake-bodied
snake-devouring
snake-drawn
snake-eater
snake-eating
snake-encircled
snake-engirdled
snake-eyed
snake-goddess
snake-grass
snake-haired
snake-headed
snake-hipped
snake-killing
snake-like
snake-milk
snake-necked
snake-plantain
snake-set
snake-shaped
snake-skin
snake-tressed
snake-wanded
snake-weed
snake-wigged
snake-winged
snake-wood
snakebite remedy
snakehead mullet
snakemouth pogonia
snakes and ladders
snakes in the boots
snaky-eyed
snaky-haired
snaky-handed
snaky-headed
snaky-paced
snaky-sparkling
snaky-tailed
snaky-wreathed
snap at
snap back
snap bean
snap beetle
snap brim
snap bug
snap cap
snap catch
snap clutch
snap decision
snap fastener
snap flask
snap gauge
snap header
snap hook
snap judgment
snap link
snap lock
snap machine
snap molder
snap molding
snap out
snap out of it
snap point
snap ring
snap roll
snap shooter
snap shooting
snap shot
snap switch
snap table
snap the thread
snap the whip
snap to it
snap tool
snap turtle
snap up
snap vote
snap willow
snap your fingers
snap your fingers at
snap your head off
snap your nose off
snap-
snap-apple
snap-brim
snap-brim hat
snap-brimmed
snap-finger
snap-hook
snap-on
snap-rivet
snap-roll
snap-shot
snap-top
snap-top table
snaphead rivet
snapper up
snapper-back
snapper-up
snapping beetle
snapping point
snapping tool
snapping turtle
snappy comeback
snappy pace
snare drum
snare strainer
snarl defiance
snarl up
snarl-up
snarled up
snarling iron
snatch at
snatch block
snatch from
snatch from the jaws of death
snatch hitch
snatch team
snatch-
snaw-broo
snack attack
snack boat
snack box
snack current
snack in
snack off
snack out
snack out of
snack preview
snack shooting
snack thief
snack thievery
snack through
snack-
snack-cup
snack-up
sneaking suspicion
sneaky pete
sneck band
sneck drawer
sneck harling
sneck hook
sneck posset
sneck-drawer
sneer at
sneeshing box
sneeshing mill
sneeshing mull
sneeze at
sneeze gas
sneeze weed
sneezewort tansy
sneezewort yarrow
sneezing gas
snick and snee
snick drawer
snick-a-snee
snick-and-snee
snick-and-snee knife
snow boot
snow bunting
snow buttercup
snow chains
snow chukor
snow cock
snow cover
snow crust
snow cup
snow devil
snow dust
snow eater
snow eyes
snow fence
snow field
snow finch
snow flea
snow flurry
snow fly
snow gem
snow glare
snow glory
snow gnat
snow goggles
snow goose
snow grains
snow grass
snow ground
snow grouse
snow guard
snow gum
snow hut
snow ice
snow in
snow insect
snow job
snow knife
snow leopard
snow light
snow lily
snow limit
snow line
snow mold
snow mosquito
snow mouse
snow one under
snow owl
snow panther
snow-brilliant
snow-broth
snow-capped
snow-casting
snow-choked
snow-clad
snow-clearing
snow-climbing
snow-cold
snow-colored
snow-covered
snow-crested
snow-crowned
snow-crystal
snow-deep
snow-drifted
snow-driven
snow-dropping
snow-drowned
snow-encircled
snow-fair
snow-feathered
snow-fed
snow-haired
snow-hung
snow-in-summer
snow-laden
snow-limbed
snow-line
snow-lined
snow-loaded
snow-man
snow-mantled
snow-melting
snow-molded
snow-nodding
snow-on-the-mountain
snow-plough
snow-pure
snow-resembled
snow-rigged
snow-robed
snow-rubbing
snow-scarred
snow-slip
snow-soft
snow-sprinkled
snow-still
snow-swathe
snow-sweeping
snow-thrower
snow-tipped
snow-topped
snow-white
snow-whitened
snow-whiteness
snow-winged
snow-wrought
snowball bush
snowball tree
snowclad peak
snowdrop anemone
snowdrop tree
snowdrop windflower
snowed-in
snowflower tree
snows of yesteryear
snowshoe hare
snowshoe rabbit
snowy egret
snowy owl
snowy-banded
snowy-bosomed
snowy-capped
snowy-countenanced
snowy-fleeced
snowy-flowered
snowy-headed
snowy-vested
snowy-winged
snub line
snub post
snub-
snub-nosed
snubbing post
snuff bottle
snuff brown
snuff brush
snuff color
snuff dipper
snuff dipping
snuff in
snuff it
snuff maker
snuff mill
snuff mull
snuff out
snuff paper
snuff shop
snuff stick
snuff swab
snuff up
snuff-box
snuff-clad
snuff-colored
snuff-headed
snuff-stained
snuff-taking
snuff-using
snuffbox bean
snuffbox fern
snuffing out
snug as a bug in a rug
snug down
snug harbor
snug together
snug up
snuggle up to
so as
so as to
so be it
so big
so bold
so cold you could spit ice cubes
so far
so far as
so far as you can
so far so good
so forget yourself
so help me
so is it
so it is
so long
so long as
so long as it's red
so many
so mote it be
so much
so much as
so much for that
so shall it be
so so
so that
so to say
so to speak
so very much
so what
so what else is new
so-and-so
so-and-sos
so-called
so-caused
so-conditioned
so-considered
so-designated
so-fa syllables
so-formed
so-forth
so-ho
so-instructed
so-like
so-named
so-regarded
so-seeming
so-so
so-soish
so-styled
so-termed
so-titled
so-wise
soak Austral
soak hole
soak in
soak up
soaking furnace
soaking pit
soaking rain
soaking through
soaking wet
soaking-up
soap apple
soap ashes
soap box
soap box derby
soap brick
soap bubble
soap bulb
soap copper
soap dish
soap earth
soap flakes
soap fruit
sober-sad
sober-spirited
sober-suited
sober-tinted
soccer ball
soccer field
sociable coach
sociable person
social Darwinism
social Darwinist
social accounting
social activity
social affair
social anthropologist
social anthropology
social assistance
social barrier
social bee
social call
social circle
social class
social climber
social climbing
social code
social compact
social conduct
social conscience
social consciousness
social contract
social control
social convention
social critic
social dancer
social dancing
social democracy
social democrat
social differentiation
social director
social discrimination
social disease
social disorganization
social distance
social drinker
social drinking
social environment
social ethics
social evolution
social full-dress uniform
social gathering
social gospel
social grace
social graces
social grouping
social heritage
social incompatibility
social insurance
social interaction
social intercourse
social isolation
social lion
social lubricant
social maladjustment
social organization
social outcast
social parasite
social pathology
social pressure
social procedures
social process
social psychiatry
social psychology
social realism
social realist
social register
social relations
social round
social science
social scientist
social season
social secretary
social security
social service
social services
social set
social settlement
social studies
social usage
social wasp
social welfare
social whirl
social work
social worker
social-climbing
social-minded
social-mindedly
social-mindedness
social-service
socialist economy
socialistic economy
socialized medicine
socially incompatible
socially prominent
society evil
society goods
society queen
society screw
society verse
socio-
socio-economic
socio-official
sociological adjustive reactions
sociological novel
socius criminis
sock away
sock in
sock lamb
sock lining
sock suspender
sock suspenders
socket basket
socket chisel
socket eye
socket pole
socket punch
socket screw
socket spanner
socket washer
socket wrench
sockeye salmon
sod cloth
sod culture
sod grass
sod house
sod mulch
sod off
sod oil
sod plow
sod webworm
sod-bound
sod-build
sod-cutting
sod-forming
sod-roofed
soda alum
soda ash
soda ball
soda biscuit
soda bread
soda cracker
soda crystals
soda feldspar
soda fountain
soda jerk
soda lake
soda lime
soda lye
soda mesolite
soda mica
soda niter
soda nitre
soda plant
soda pop
soda pulp
soda saleratus
soda siphon
soda soap
soda waste
soda water
soda-granite
soda-lime
soda-lime feldspar
soda-potash
soda-potash feldspar
sodalite-syenite
sodden-faced
sodden-headed
sodden-minded
sodden-witted
sodio-
sodium acetate
sodium acid car
sodium acid carbonate
sodium alum
sodium aluminate
sodium amide
sodium ammonium phosphate
sodium arsenate
sodium arsenite
sodium arsphenamine
sodium barbital
sodium benzoate
sodium biborate
sodium bicarbonate
sodium bichromate
sodium bisulphate
sodium bisulphite
sodium borate
sodium bromide
sodium carbonate
sodium carbonite
sodium chlorate
sodium chloride
sodium citrate
sodium cyanide
sodium cyclamate
sodium cyclohexylsulfamate
sodium dicarbonate
sodium dichromate
sodium dioxide
sodium dithionate
sodium dithionite
sodium ethoxide
sodium ethylate
sodium fluoride
sodium fluoroacetate
sodium glutamate
sodium hydride
sodium hydrosulfite
sodium hydrosulphide
sodium hydrosulphite
sodium hydroxide
sodium hypochlorite
sodium hyposulfi
sodium hyposulfite
sodium hyposulphite
sodium iodide
sodium lamp
sodium light
sodium meta-arsenite
sodium methoxide
sodium methylate
sodium monoxide
sodium nitrate
sodium nitrite
sodium nitroprusside
sodium oxide
sodium pentothal
sodium perborate
sodium peroxide
sodium phosphate
sodium polysulfide
sodium propionate
sodium pump
sodium pyroborate
sodium salicylate
sodium silicate
sodium stearate
sodium suing agent
sodium sulfate
sodium sulfide
sodium sulfite
sodium sulphate
sodium sulphide
sodium sulphite
sodium sulphydrate
sodium tetrabor
sodium tetraborate
sodium thiocyanate
sodium thiopental
sodium thiosulfate
sodium thiosulphate
sodium tungstate
sodium-vapor
sodium-vapor lamp
sodium-vapour lamp
sofa bed
sofa bedstead
sofa corner
sofa cover
sofa cushion
sofa maker
sofa pillow
sofa seat
sofa table
sofa-bed
sofa-ridden
soffit brick
soft armor
soft as a kiss
soft as a sigh
soft as clay
soft as dough
soft as putty
soft as silk
soft binding
soft chancre
soft clam
soft coal
soft color
soft currency
soft diet
soft drink
soft focus
soft furnishings
soft goods
soft ground
soft hail
soft hat
soft ice cream
soft in the head
soft landing
soft market
soft nose stem
soft on
soft palate
soft paste
soft patch
soft pedal
soft phototube
soft phrases
soft place in your heart
soft ray
soft roe
soft roll
soft rot
soft scale
soft sell
soft shoulder
soft sign
soft sleep
soft soap
soft solder
soft spot
soft spot in your heart
soft tick
soft tongue
soft touch
soft tube
soft voice
soft water
soft wheat
soft wood
soft words
soft-armed
soft-backed
soft-bedded
soft-bellied
soft-bill
soft-billed
soft-blowing
soft-board
soft-bodied
soft-boil
soft-boiled
soft-bone
soft-bosomed
soft-bound book
soft-breathed
soft-bright
soft-brushing
soft-centred
soft-circling
soft-coal
soft-coated
soft-colored
soft-conched
soft-conscienced
soft-core pornography
soft-cored
soft-couched
soft-cover
soft-dressed
soft-ebbing
soft-embodied
soft-extended
soft-eyed
soft-feathered
soft-feeling
soft-fingered
soft-finished
soft-finned
soft-flecked
soft-fleshed
soft-flowing
soft-focus
soft-foliaged
soft-footed
soft-footedly
soft-glazed
soft-going
soft-ground
soft-ground etching
soft-haired
soft-handed
soft-head
soft-headed
soft-headedness
soft-hearted
soft-heartedly
soft-heartedness
soft-hued
soft-laid
soft-leaved
soft-lucent
soft-mannered
soft-mettled
soft-minded
soft-murmuring
soft-natured
soft-nosed
soft-paced
soft-pale
soft-palmed
soft-paste
soft-paste porcelain
soft-pated
soft-pedal
soft-pedaled
soft-pedaling
soft-pedalled
soft-pedalling
soft-rayed
soft-roasted
soft-rock geology
soft-sawder
soft-sawderer
soft-sealed
soft-shell
soft-shell clam
soft-shell crab
soft-shelled
soft-shelled turtle
soft-shining
soft-shoe
soft-shoe dancing
soft-shouldered
soft-sighing
soft-silken
soft-skinned
soft-sleeping
soft-sliding
soft-slow
soil conservation
soil mechanics
soil miller
soil mulch
soil pipe
soil profile
soil rot
soil science
soil scientist
soil sickness
soil stack
soil stain
soil survey
soil-bank
soil-bound
soil-freesoilage
soiling crop
soixante-neuf
soixante-quinze
soja bean
soja-bean oil
soke reeve
sol-fa
sol-fa exercise
sol-fa syllables
sol-faed
sol-faer
sol-faing
sol-faist
sol-lunar
sola topee
solan goose
solar X-ray counter
solar X-ray detector
solar apex
solar battery
solar cell
solar chariot
solar constant
solar corona
solar day
solar eclipse
solar ecliptic
solar engine
solar flare
solar furnace
solar gamma ray counter
solar halo
solar heat
solar heater
solar heating
solar house
solar machine
solar mirror
solar month
solar myth
solar particle
solar physicist
solar physics
solar plexus
solar power
solar prominence
solar rays
solar spectrum
solar still
solar system
solar telegraph
solar therapy
solar tide
solar time
solar ultraviolet detector
solar wind
solar year
solari-
sold on
solder nipple
soldering bolt
soldering copper
soldering gun
soldering iron
soldering nipple
soldering paste
soldering torch
soldering union
soldering wig
soldier ant
soldier beetle
soldier bug
soldier course
soldier crab
soldier fly
soldier of fortune
soldier on
soldier orchid
soldier orchis
soldier palmer
soldier sprag
soldier suit
soldier turtle
soldier's heart
soldier's medal
soldier-crab
soldier-fashion
soldier-mad
soldierly quality
soldierly virtues
soldiers' home
sole blocker
sole corporation
sole cutter
sole sewer
sole sorter
sole stamper
sole tile
sole trader
sole tree
sole-beating
sole-begotten
sole-beloved
sole-bound
sole-channeling
sole-commissioned
sole-cutting
sole-deep
sole-finishing
sole-happy
sole-justifying
sole-leather
sole-leather kelp
sole-living
sole-lying
sole-ruling
sole-saving
sole-seated
sole-shaped
sole-stitching
sole-sufficient
sole-thoughted
sole-walking
solemn affirmation
solemn declaration
solemn form
solemn mass
solemn mockery
solemn oath
solemn observance
solemn secret
solemn silence
solemn vow
solemn word
solemn-breathing
solemn-browed
solemn-cadenced
solemn-eyed
solemn-garbed
solemn-looking
solemn-mannered
solemn-measured
solemn-proud
solemn-seeming
solemn-shaded
solemn-sounding
solemn-thoughted
solemn-toned
solemn-visaged
solemnly mark
solenoidal brake
solent goose
solera sherry
sollerino red
soli-deo
solicit advice
solicit attention
solicit votes
solicitor general
solicitors general
solid angle
solid as a rock
solid body
solid bottom
solid comfort
solid fuel
solid geometry
solid ground
solid injection
solid of revolution
solid propellant
solid rock
solid solution
solid-billed
solid-bronze
solid-browed
solid-color
solid-colored
solid-drawn
solid-fronted
solid-fuel rocket
solid-full
solid-gold
solid-headed
solid-hoofed
solid-horned
solid-injection
solid-ink
solid-ivory
solid-looking
solid-ported
solid-seeming
solid-set
solid-silver
solid-state
solid-state device
solid-state physics
solid-tired
solidus curve
solitary bee
solitary confinement
solitary person
solitary sandpiper
solitary vireo
solitary wasp
solo dancer
solo dancing
solo flight
solo grand
solo organ
solo part
solo stop
solo whist
solomon's seal
solomon-gundy
solstitial colure
solubility product
soluble RNA
soluble glass
solution plane
solution pressure
solution set
solution tension
solution-proof
solvate theory
solvay process
solvent naphtha
soma plant
somat-
somatic cell
somatic death
somatization reaction
somato-
somber-clad
somber-colored
somber-looking
somber-minded
somber-seeming
somber-toned
some fine day
some fine morning
some five or six
some hope
some of these days
some one
some such way
some sweet day
some time ago
some time back
some time since
some way
somehow or another
somehow or other
someplace or other
something awful
something between
something between the lines
something comfortable
something else
something else again
something extra
something fierce
something for good measure
something for something
something in hand
something in reserve
something in return
something like
something missing
something of value
something or other
something out of your system
something special
something terrible
something to be desired
something to brag about
something to chew on
something to fall back on
something to get your teeth into
something to shout about
something to spare
something to write home about
sometime or other
sometimes and sometimes not
somewhere about
somewhere else
somewhere near
somn-
somnambul-
somnambulistic hypnosis
somni-
son and heir
son et lumiere
son of Adam
son of God
son of a bitch
son of a gun
son of the sable night
son of the soil
son-in-law
son-in-lawship
sonata allegro
sonata form
sonata-allegro
sonder yacht
song and dance
song and dance man
song box
song cycle
song form
song hit
song leader
song maker
song making
song of the Sirens
song sparrow
song thrush
song writer
song writing
soon-rotting
soon-said
soon-sated
soon-speeding
soon-tired
soon-wearied
sooner or later
sooner than
soot black
soot bodies
soot brown
soot dew
soot-bespeckled
soot-black
soot-bleared
soot-colored
soot-dark
soot-fall
soot-grimed
soot-smutched
soot-sowing
soothing syrup
soothing words
sooty black
sooty blotch
sooty mold
sooty mould
sooty tern
sooty-faced
sooty-mouthed
sooty-planed
sop to Cerberus
sop up
sophistic syllogism
sophistical reasoning
sopping wet
soprano clef
soprano part
sops-in-wine
sora rail
sorb apple
sorb tree
sorb-apple
sorbic acid
sorbo rubber
sore beset
sore disappointment
sore head
sore mouth
sore point
sore pressed
sore shin
sore spot
sore throat
sore-backed
sore-beset
sore-dreaded
sore-eyed
sore-footed
sore-head
sore-pressed
sore-pressed
sore-taxed
sore-toed
sore-tried
sore-vexed
sore-wearied
sore-won
sore-worn
soredi-
sorely disappointed
sorely pressed
sorghum brown
sorghum midge
sorghum smut
sorority girl
sorority house
sorority woman
sorrel dock
sorrel family
sorrel salt
sorrel tree
sorrel vine
sorrow for
sorrow over
sorrow with
sorrow-beaten
sorrow-blinded
sorrow-bound
sorrow-breathing
sorrow-breeding
sorrow-bringing
sorrow-burdened
sorrow-ceasing
sorrow-closed
sorrow-clouded
sorrow-daunted
sorrow-furrowed
sorrow-healing
sorrow-laden
sorrow-melted
sorrow-parted
sorrow-ripening
sorrow-seasoned
sorrow-seeing
sorrow-sharing
sorrow-shot
sorrow-shrunk
sorrow-sick
sorrow-sighing
sorrow-sobbing
sorrow-streaming
sorrow-stricken
sorrow-struck
sorrow-tired
sorrow-torn
sorrow-wasted
sorrow-worn
sorrow-wounded
sorrow-wreathen
sorrowful tree
sorry for yourself
sorry lot
sorry plight
sorry-flowered
sorry-looking
sort of
sort out
sort with
sorter-out
sortes Biblicae
sortes Homericae
sortes Praenestinae
sortes Vergilianae
sorting boom
sorting jack
sorting out
sorting tracks
sorting yard
sostenuto pedal
sostinente pianoforte
sot on
sot-weed
sothic cycle
sotto voce
sou markee
sou marqu
sou'-west
sou-sou
sou-southerly
souari nut
souari-nut
souari-nut family
soubise sauce
soufriere bird
sought-after
soul bell
soul blindness
soul body
soul cake
soul curer
soul deafness
soul food
soul house
soul in glory
soul kiss
soul mate
soul mates
soul of kindness
soul of the dead
soul scat
soul scot
soul shot
soul silver
soul sleep
soul sleeper
soul-adorning
soul-amazing
soul-benumbed
soul-blind
soul-blinded
soul-blindness
soul-boiling
soul-born
soul-burdened
soul-charming
soul-choking
soul-cloying
soul-conceived
soul-confirming
soul-confounding
soul-converting
soul-corrupting
soul-damning
soul-deep
soul-delighting
soul-destroying
soul-devouring
soul-diseased
soul-dissolving
soul-driver
soul-enchanting
soul-ennobling
soul-enthralling
soul-fatting
soul-fearing
soul-felt
soul-forsaken
soul-fostered
soul-frighting
soul-galled
soul-gnawing
soul-harrowing
soul-humbling
soul-illumined
soul-imitating
soul-infused
soul-killing
soul-kiss
soul-loving
soul-mass
soul-moving
soul-murdering
soul-numbing
soul-pained
soul-piercing
soul-pleasing
soul-racking
soul-raising
soul-ravishing
soul-reneding
soul-reviving
soul-sapping
soul-satisfying
soul-saving
soul-scot
soul-searching
soul-shaking
soul-shot
soul-sick
soul-sickening
soul-sickness
soul-sinking
soul-slaying
soul-stirring
soul-subduing
soul-sunk
soul-sure
soul-sweet
soul-tainting
soul-thralling
soul-tiring
soul-tormenting
soul-vexed
soul-wise
soul-wounded
soul-wounding
souls in hell
sound a fanfare
sound a knell
sound a retreat
sound a sour note
sound a tattoo
sound an alarm
sound and fury
sound area
sound as a dollar
sound asleep
sound barrier
sound block
sound boarding
sound bone
sound booth
sound bow
sound box
sound cage
sound camera
sound carrier
sound change
sound channel
sound chest
sound compensation
sound control
sound critical judgment
sound director
sound economy
sound effect
sound effects
sound evidence
sound field
sound figures
sound film
sound frequency
sound gate
sound harshly
sound head
sound hole
sound in the ear
sound in tune
sound in wind and limb
sound intensity
sound intensity level
sound judgment
sound knot
sound law
sound lens
sound like
sound limiter
sound line
sound man
sound mind
sound mixer
sound money
sound monitor
sound motion picture
sound of mind and body
sound of trumpets
sound off
sound out
sound pendulum
sound perimeter
sound picture
sound post
sound pressure
sound projector
sound proof
sound propagation
sound ranging
sound reasoning
sound recorder
sound recording
sound reproduction system
sound screen
sound sense
sound shadow
sound shift
sound shifting
sound shrill
sound similar
sound sleep
sound slidefilm
sound spectrogram
sound spectrograph
sound stage
sound taps
sound the alarm
sound the death knell of
sound the horn
sound the keynote
sound the note of preparation
sound the praises of
sound the tocsin
sound the trumpet
sound together
sound track
sound truck
sound true
sound understanding
sound units
sound wave
sound wormy
sound-absorbing
sound-absorbing material
sound-board
sound-conducting
sound-effects man
sound-exulting
sound-group
sound-hole
sound-judging
sound-level data
sound-making
sound-minded
sound-mindedness
sound-on-film
sound-post
sound-powered telephone
sound-producing
sound-ranging altimeter
sound-sensed
sound-set
sound-sleeping
sound-stated
sound-stilling
sound-sweet
sound-thinking
sound-winded
sound-witted
sounding balloon
sounding block
sounding board
sounding bottle
sounding harsh
sounding lead
sounding line
sounding machine
sounding out
sounding post
sounding rocket
sounding rod
sounding stop
sounding tube
sounding-board
sounding-lead
sounding-line
soundness of doctrine
soundness of judgment
soundness of mind
soundproofing insulation
soup bowl
soup cup
soup house
soup kitchen
soup maigre
soup plate
soup shop
soup stock
soup up
soup's on
soup-and-fish
soup-fin shark
soup-strainer
souple silk
sour as vinegar
sour ball
sour balls
sour cherry
sour cream
sour gourd
sour grapes
sour gum
sour mash
sour milk
sour note
sour orange
sour pickle
sour salt
sour thing
sour-blooded
sour-breathed
sour-complexioned
sour-dough
sour-eyed
sour-faced
sour-featured
sour-headed
sour-looked
sour-looking
sour-natured
sour-sap
sour-sap disease
sour-smelling
sour-sop
sour-sweet
sour-tasted
sour-tasting
sour-tempered
sour-tongued
sour-visaged
source book
source material
source of aesthetic delight
source of aesthetic pleasure
source of light
source of supply
source program
sourdough bread
soured cream
sous-
sous-lieutenant
sous-prefect
south about
south african
south by east
south by west
south country
south pole
south sea
south wind
south-
south-blowing
south-borne
south-east
south-easterly
south-eastern
south-eastward
south-facing
south-following
south-preceding
south-seaman
south-seeking
south-side
south-south-east
south-south-west
south-southeast
south-southeasterly
south-southeastward
south-southerly
south-southwest
south-southerly
south-southwestward
south-southwestwardly
south-west
south-wester
south-westerly
south-western
south-westward
south-westwardly
southeast by east
southeast by south
southerly burster
southerly buster
southern cane
southern crab apple
southern cross
southern crown
southern cypress
southern dewberry
southern english
southern hemisphere
southern lights
southern magnolia
southern right whale
southern studfish
southern toad
southwest by south
southwest by west
soutien-gorge
souvenir book
souvenir day
souvenir hunter
souvenir sheet
souvenir spoon
sovereign contempt
sovereign nation
sovereign nationhood
sovereign pontiff
sovereign princess
sovereign queen
sovereign remedy
sovereign state
sovereign statehood
sow block
sow broadcast
sow bug
sow chaos
sow disorder
sow dissension
sow fennel
sow gapeseed
sow grass
sow the sand
sow the seed
sow the seeds of
sow thistle
sow your wild oats
sow-back
sow-bread
sow-bug
sow-gelder
sow-metal
sow-pig
sow-thistle
sow-tit
sower type
sowing with salt
soy flour
soy frame
soy pea
soy sauce
soya bean
soya sauce
soya-bean oil
soybean fibers
soybean oil
soyez le bienvenu
sp gr
sp ht
spa-water
space age
space airport
space bar
space between
space bullets
space capsule
space centrode
space charge
space crew
space curvature
space curve
space dock
space docking
space doctor
space engineering
space error
space exploration
space factor
space fiction
space flight
space formula
space frame
space group
space hazard
space heater
space heating
space helmet
space island
space isomerism
space key
space laboratory
space lat
space lattice
space line
space linkage
space man
space mark
space medicine
space mirror
space motion
space navigation
space observatory
space opera
space out
space perception
space platform
space probe
space probes
space quadrature
space rate
space ratio
space research
space rocket
space rule
space satellite
space science
space shuttle
space stage
space station
space suit
space technology
space telegraphy
space telephony
space terminal
space travel
space traveler
space variation
space velocity
space walk
space washer
space writer
space-bar
space-charge effect
space-crammed
space-embosomed
space-filling
space-lattice
space-occupying
space-penetrating
space-pervading
space-piercing
space-polar
space-saving
space-spread
space-thick
space-time
space-time continuum
space-traveling
space-world
spaced out
spaced-antenna direction finder
spaced-loop direction finder
spaced-out
span shackle
span-
span-counter
span-farthing
span-hapenny
span-long
span-new
span-roof
spandrel frame
spandrel step
spandrel wall
spang-new
spangle-baby
spangled glass
spanish american
spanish bayonet
spanish broom
spanish fly
spanish heel
spanish influenza
spanish mackerel
spanish moss
spanish needles
spanish omelet
spanish paprika
spanish rice
spank along
spanker boom
spanker gaff
spanker peak halyard
spanker sheet
spanker vang
spanking new
spanking pace
spanking wind
spanking-new
spanner wrench
spanner-tight
spar bridge
spar buoy
spar ceiling
spar deck
spar down
spar torpedo
spar tree
spar varnish
spar-deck vessel
spar-decked
spar-decker
spare a thought for
spare diet
spare no effort
spare no expense
spare no pains
spare nothing
spare room
spare the price
spare the rod
spare time
spare tire
spare tyre
spare-bodied
spare-built
spare-fed
spare-handed
spare-handedly
spare-looking
spare-rib
spare-set
spare-time
spare-time activity
sparge pipe
sparing of words
sparingness of words
spark advance
spark arrester
spark chamber
spark coil
spark condenser
spark discharge
spark frequency
spark gap
sparkgenerator
spark instant
spark knock
spark lead
spark lever
spark micrometer
spark of life
spark off
spark plug
spark potential
spark spectrum
spark transmission
spark transmitter
spark-over
speak about
speak at length
speak before you think
speak by the book
speak by the card
speak drunkenly
speak faintly
speak fair
speak falsely
speak for
speak for Buncombe
speak for itself
speak highly of
speak ill of
speak ill of behind your back
speak imperfectly
speak in high terms of
speak in privacy
speak in riddles
speak in tongues
speak incoherently
speak inopportune
speak one's mind
speak one's piece
speak out
speak plainly
speak poorly
speak slightly of
speak soothing words
speak the truth
speak thickly
speak through your nose
speak to
speak to the winds
speak too late
speak too soon
speak true
speak up
speak up for
speak volumes
speak warmly of
speak well for
speak well of
speak with
speak with forked tongue
speak words of wisdom
speak your mind
speak your piece
speak-easy
speaker hole
speaker key
speaker system
speaker unit
speaker's platform
speaker's stand
speaking arc
speaking clock
speaking generally
speaking in tongues
speaking of
speaking part
speaking pipe
speaking rod
speaking stop
speaking terms
speaking trumpet
speaking tube
speaking type
speaking up for
speaking-to
speaking-trumpet
speaking-tube
spear bed
spear crowfoot
spear foot
spear grass
spear gun
spear hand
spear hook
spear javelin
spear kin
spear lily
spear plate
spear play
spear point
spear pyrites
spear rest
spear rod
spear side
spear thistle
spear thrower
spear widgeon
spear-bearing
spear-bill
spear-billed
spear-bound
spear-brandishing
spear-breaking
spear-carrier
spear-fallen
spear-famed
spear-grass
spear-head
spear-head spoon
spear-headed
spear-high
spear-nosed
spear-pierced
spear-pointed
spear-shaking
spear-shaped
spear-skilled
spear-splintering
spear-swept
spear-thrower
spear-throwing
spear-wielding
spearmint oil
special act
special affinity
special agent
special area
special article
special assessment
special case
special circumstance
special committee
special consideration
special constable
special contract
special correspondent
special court-martial
special delivery
special demurrer
special dividend
special drawing rights
special edition
special effect
special effects
special electronic
special favor
special full-dress uniform
special handling
special hospital
special interest
special interests
special jury
special knowledge
special library
special licence
special map
special order
special orders
special partner
special partnership
special permission
special pleader
special pleading
special police
special privilege
special providence
special relativity
special rule
special school
special session
special sessions
special situation stock
special sort
special staff
special term
special theory of relativity
special treatment
special troops
special-delivery
special-interest group
special-interest lobby
special-interest pressure
special-process
special-purpose tubes
specialité de la maison
specialize in
specialized dictionary
specialized kinds
specialized knowledge
specialized stones
specialty contract
specialty shop
specialty stock
specie payment
cpecie point
species pectorales
specific activity
specific character
specific charge
specific conductance
specific duty
specific epithet
specific gravity
specific heat
specific heat capacity
specific humidity
specific immunity
specific impulse
specific inductive capacity
specific inflammation
specific performance
specific reluctance
specific remedy
specific resistance
specific therapy
specific treatment
specific viscosity
specific volume
specific-gravity
specific-gravity balance
specific-gravity bottle
specific-gravity bulbs
specifica requirements
specifically provide
specimen bottle
specimen plant
specio-
specious appearance
specious argument
specious present
specious reasoning
speck block
speckle loon
speckle perch
speckle trout
speckle-backed
speckle-bellied
speckle-billed
speckle-breasted
speckle-coated
speckle-faced
speckle-marked
speckle-skinned
speckle-starred
speckled Sussex
speckled trout
spectacle case
spectacle clew
spectacle coot
spectacle frame
spectacle furnace
spectacle iron
spectacle stone
spectacle cobra
spectator sport
specter bat
specter candle
specter crab
specter lemur
specter shrimp
specter-fighting
specter-haunted
specter-looking
specter-mongering
specter-pallid
specter-staring
specter-thin
specter-wan
spectra yellow
spectral classification
spectral color
spectral ghost
spectral line
spectral luminous efficiency
spectral series
spectral type
spectro-
spectroscopic analysis
spectroscopic binary
spectroscopic camera
spectrum analysis
spectrum color
spectrum locus
spectrum-luminosity diagram
speculate in stocks
speculative geometry
speculative philosophy
speculative securities
speculative stock
speculum metal
speech abnormality
speech accent
speech act
speech area
speech center
speech choir
speech circuit
speech clinic
speech community
speech correction
speech curve
speech day
speech defect
speech form
speech from the throne
speech house
speech impediment
speech island
speech map
speech melody
speech organ
speech pathology
speech reading
speech rhythm
speech room
speech situation
speech sound
speech sounds
speech tune
speech-bereaving
speech-bereft
speech-bound
speech-famed
speech-flooded
speech-maker
speech-reading
speech-reporting
speech-shunning
speech-writing
speed along
speed away
speed boss
speed box
speed comparisons
speed cone
speed cones
speed control
speed controller
speed cop
speed counter
speed demon
speed flag
speed frame
speed freak
speed gauge
speed gear
speed indicator
speed lamp
speed lathe
speed light
speed limit
speed maniac
speed merchant
speed meter
speed of sound
speed on
speed on its way
speed over the bottom
speed over the ground
speed pulley
speed record
speed recorder
speed reducer
speed regulator
speed rigger
speed road
speed sheet
speed sight
speed skate
speed sprayer
speed test
speed the parting guest
speed tool
speed trap
speed truck
speed up
speed-length ratio
speed-up
speeding-place
speedway race
spek-boom
spell backward
spell down
spell of nerves
spell of rain
spell of work
spell off
spell out
spell-banned
spell-bind
spell-bound
spell-casting
spell-caught
spell-free
spell-invoking
spell-like
spell-raised
spell-riveted
spell-set
spell-sprung
spell-stopped
spell-struck
spell-weaving
spelling bee
spelling book
spelling match
spelling pronunciation
spelling reform
spelling reformer
spelter calciner
spelter chills
spelter solder
spencer mast
spend a penny
spend as if money grew on trees
spend like a drunken sailor
spend money like water
spend more than you have
spend the time
spend time
spend what you havn't got
spend your time in
spend yourself
spend yourself for
spend-all
spend-good
spending money
spending-money
spendthrift of your tongue
spendthrift trust
spenserian sonnet
spenserian stanza
spent-gnat
spent-gnat fly
sperm aster
sperm candle
sperm cell
sperm center
sperm nucleus
sperm oil
sperm receptor
sperm sac
sperm whale
sperm whaler
sperm whaling
sperm-
sperm-whale porpoise
spermat-
spermathecal gland
spermatic cord
spermatic fluid
spermatic plexus
spermatic veins
spermato-
spermatophore sac
spermi-
spermicidal jelly
spermo-
spew out
spewing sickness
spey cast
sphae-ropsidaceous
sphaero-
sphagnum bog
sphagnum frog
sphagnum moss
spheno-
spheno-occipital
sphenoid bone
sphere circle
sphere crystals
sphere fungus
sphere gap
sphere geometry
sphere of influence
sphere of work
sphere tracks
sphere-born
sphere-descended
sphere-filled
sphere-found
sphere-headed
sphere-shaped
sphere-tuned
spheres of influence
spherical aberration
spherical angle
spherical coordinate
spherical coordinates
spherical excess
spherical geometry
spherical polygon
spherical sailing
spherical triangle
spherical trigonometry
spherico-
sphero-
spheroidal galaxy
spherometer caliper
sphinx baboon
sphinx caterpillar
sphinx moth
sphinxes without secrets
sphygmo-
spice ball
spice birch
spice box
spice cake
spice currant
spice grinder
spice mill
spice nut
spice of wit
spice plate
spice shop
spice store
spice trade
spice tree
spice-bearing
spice-box
spice-breathing
spice-burnt
spice-cake
spice-fraught
spice-laden
spice-warmed
spice-wood
spicebush silk moth
spicebush swallowtail
spici-
spick and span
spick and span new
spick-and-span
spick-and-spandy
spick-and-spanness
spick-span-new
spiculi-
spicy fleabane
spider ant
spider band
spider beetle
spider bug
spider cart
spider catcher
spider cell
spider crab
spider diver
spider eater
spider fern
spider fly
spider grass
spider hoop
spider hunter
spider leg
spider lily
spider line
spider mite
spider monkey
spider nevus
spider orchid
spider orchis
spider phaeton
spider plant
spider shell
spider stitch
spider wagon
spider wasp
spider web
spider wheel
spider's web
spider-catcher
spider-crab
spider-fingered
spider-hunting wasp
spider-leg
spider-leg table
spider-legged
spider-leggy
spider-like
spider-limbed
spider-line
spider-shanked
spider-spun
spider-web
spider-webby
spiderwort family
spiegel charger
spiegel iron
spiff up
spiffed up
spigot joint
spike bit
spike bowsprit
spike buck
spike disease
spike grass
spike heath
spike heel
spike knot
spike lavender
spike nail
spike oil
spike rush
spike shell
spike team
spike tub
spike your guns
spike-billed
spike-horned
spike-kill
spike-lavender oil
spike-leaved
spike-nail
spike-pitch
spike-pitcher
spike-rush
spike-tailed
spike-tooth
spike-tooth harrow
spiked alder
spikenard tree
spiketail coat
spiketail family
spiking piece
spile driver
spiling batten
spill blood
spill box
spill ink
spill it
spill light
spill out
spill over
spill stream
spill the beans
spill your guts
spill-
spill-over
spillet fishing
spilling line
spilt milk
spin a long yarn
spin bowler
spin casting
spin fisherman
spin fishing
spin house
spin in
spin like a teetotum
spin like a top
spin off
spin out
spin quantum number
spin rocks
spin stabilization
spin the bottle
spin the plate
spin the platter
spin wave
spin-dried
spin-drier
spin-dry
spin-dryer
spin-drying
spin-house
spin-off
spin-stabilized rocket
spin-text
spina bifida
spinach beet
spinach blight
spinach dock
spinach flea beetle
spinach green
spinach yellows
spinach-colored
spinach-rhubarb
spinal accessory nerve
spinal anaesthesia
spinal anesthesia
spinal canal
spinal column
spinal cord
spinal meningitis
spinal tap
spindle bander
spindle fiber
spindle fibers
spindle file
spindle kin
spindle oil
spindle pointer
spindle sander
spindle shell
spindle side
spindle sprout
spindle step
spindle stone
spindle stretcher
spindle stromb
spindle temper
spindle tree
spindle tuber
spindle whorl
spindle-cell
spindle-cell sarcoma
spindle-celled
spindle-formed
spindle-legged
spindle-pointed
spindle-rooted
spindle-shanked
spindle-shaped
spindle-shinned
spindle-side
spindle-tree
spindling sprout
spine cell
spine-ache
spine-bashing
spine-breaking
spine-broken
spine-chiller
spine-chilling
spine-clad
spine-covered
spine-finned
spine-headed
spine-pointed
spine-protected
spine-rayed
spine-tail
spine-tailed
spine-tailed swift
spine-tipped
spinel group
spinel pink
spinel ruby
spinel-red
spinet desk
spini-
spinnaker boom
spinnaker pole
spinnaker staysail
spinner of yarns
spinner play
spinning axis
spinning box
spinning electrons
spinning frame
spinning gland
spinning head
spinning house
spinning jenny
spinning lathe
spinning machine
spinning mamillia
spinning mite
spinning mule
spinning out
spinning pot
spinning top
spinning tube
spinning wheel
spinning-house
spinning-jenny
spinning-out
spinning-wheel
spino-
spino-olivary
spino-olivary tract
spinocerebellar tract
spinous process
spinous-branched
spinous-finned
spinous-foiliaged
spinous-leaved
spinous-pointed
spinous-serrate
spinous-tailed
spinous-tipped
spinous-toothed
spinuli-
spiny anteater
spiny bur
spiny cocklebur
spiny dogfish
spiny lizard
spiny lobster
spiny ray
spiny-backed
spiny-coated
spiny-crested
spiny-finned
spiny-footed
spiny-fruitsted
spiny-haired
spiny-leaved
spiny-legged
spiny-margined
spiny-pointed
spiny-rayed
spiny-ribbed
spiny-skinned
spiny-tailed
spiny-tipped
spiny-toothed
spiral balance
spiral bevel gear
spiral binding
spiral casing
spiral galaxy
spiral gear
spiral loop
spiral nebula
spiral notebook
spiral of Archimedes
spiral shell end mill
spiral spring
spiral staircase
spiral stairs
spiral upward
spiral-bound
spiral-coated
spiral-gear
spiral-grooved
spiral-horned
spiral-nebula
spiral-nebula hypothesis
spiral-pointed
spiral-spring
spiral-vane
spiraling prices
spiraling up
spire light
spire-bearer
spire-shaped
spire-steeple
spiric body
spirit away
spirit blue
spirit butterfly
spirit compass
spirit control
spirit duck
spirit duplicator
spirit gum
spirit lamp
spirit level
spirit leveling
spirit manifestation
spirit of hartshorn
spirit of nitrous ether
spirit of the age
spirit of the sea
spirit of the time
spirit of turpentine
spirit rapper
spirit rapping
spirit up
spirit varnish
spirit vinegar
spirit world
spirit writing
spirit-awing
spirit-boiling
spirit-born
spirit-bowed
spirit-bribing
spirit-broken
spirit-cheering
spirit-chilling
spirit-crushed
spirit-crushing
spirit-drinking
spirit-fallen
spirit-freezing
spirit-froze
spirit-guided
spirit-haunted
spirit-healing
spirit-inspiring
spirit-lifting
spirit-marring
spirit-numb
spirit-piercing
spirit-possessed
spirit-prompted
spirit-pure
spirit-quelling
spirit-rapper
spirit-rapping
spirit-refreshing
spirit-rousing
spirit-sinking
spirit-small
spirit-soothing
spirit-speaking
spirit-stirring
spirit-stricken
spirit-thrilling
spirit-torn
spirit-troubling
spirit-walking
spirit-wearing
spirit-wise
spirits of ammonia
spirits of camphor
spirits of hartshorn
spirits of salt
spirits of the air
spirits of turpentine
spirits of wine
spiritual being
spiritual blindness
spiritual body
spiritual bouquet
spiritual cleansing
spiritual climate
spiritual death
spiritual director
spiritual father
spiritual healer
spiritual healing
spiritual humbug
spiritual incest
spiritual leader
spiritual love
spiritual presence
spiritual purification
spiritual void
spiritual wife
spiritual-minded
spiritual-mindedly
spiritual-mindedness
spiritually blind
spiritually cleansed
spiritually purified
spirituous tincture
spiritus asper
spiritus camphorae
spiritus frumenti
spiritus lenis
spiritus mundi
spirketing plate
spiro compound
spiro-
spit and image
spit and polish
spit bug
spit curl
spit image
spit in the ocean
spit it out
spit on your hands
spit up
spit upon
spit-and-polish
spit-ball
spite fence
spite of
spite wall
spite work
spitfire jib
spitting cobra
spitting distance
spitting image
spitting snake
spittle bug
spittle fly
spittle insect
spitz dog
spitz flute
splanchno-
splash back
splash dam
splash feed
splash guard
splash lubrication
splash of rain
splash out
splash system
splash zone
splash-
splash-down
splash-lubricate
splash-tight
splat-back
splatter-faced
splay-edged
splay-footed
splay-kneed
splay-legged
splay-mouthed
splay-toed
spleen amaranth
spleen stone
spleen-born
spleen-devoured
spleen-pained
spleen-piercing
spleen-shaped
spleen-sick
spleen-struck
spleen-swollen
spleenwort bush
spleen-
splendid isolation
splenic fever
spleno-
splice bar
splice box
splice graftage
splice grafting
splice the main brace
splicing chamber
splicing hammer
spline broach
spline clutch
spline joint
spline milling machine
spline shaft
spline weight
splint armor
splint bar
splint basket
splint bone
splint coal
splint peeler
splint seat
splint-bottom
splint-bottomed
splinter bar
splinter bulkhead
splinter deck
splinter group
splinter party
splinter-bar
splinter-proof
splish-splash
split 'S'
split T formation
split balance
split decision
split flap
split hairs
split in two
split infinitive
split nut
split open
split pea
split personality
split rail
split run
split schedule
split screen
split second
split shift
split shot
split shovel
split spindle
split spirit
split stroke
split the atom
split the difference
split the ear
split the eardrums
split the ears
split the lungs
split the throat
split ticket
split tin
split turning
split up
split upon a rock
split wheel
split wing
split with laughter
split your head
split your sides
split-
split-bottom
split-eared
split-edge
split-face
split-level
split-lift
split-mouth
split-nosed
split-oak
split-off
split-phase
split-phase motor
split-screen technique
split-second watch
split-timber
split-tongued
split-up
splitmouth sucker
splitting chisel
splitting factor
splitting field
splitting gun
splitting headache
splitting in two
splitting plate
splitting the atom
splitworm moth
spodo-
spoon-back
spoon-beaked
spoon-billed
spoon-bowed
spoon-fashion
spoon-fashioned
spoon-fed
spoon-feed
spoon-feeding
spoon-formed
spoon-meat
spoon-shaped
spoonbill cat
spoonwood ivy
spoony over
spor-
sporadic E layer
sporadic cholera
spore ball
spore case
spore cell
spore fruit
spore mother cell
spore print
spore sac
sporo-
sport car
sport clothes
sport coat
sport fish
sport jacket
sport plane
sport shirt
sport your oak
sport-affording
sport-giving
sport-hindering
sport-loving
sport-making
sport-starved
sporting blood
sporting book
sporting chance
sporting dog
sporting editor
sporting girl
sporting goods
sporting goods store
sporting house
sporting lady
sporting man
sporting page
sporting section
sporting-wise
sports car
sports clothes
sports day
sports editor
sports jacket
sports page
sports parachutist
sports plane
sports section
sports shirt
sports suit
spot announcement
spot ball
spot blotch
spot board
spot card
spot cards
spot cash
spot check
spot cotton
spot dyeing
spot grain
spot height
spot illustration
spot lamp
spot lens
spot lighting
spot line
spot map
spot news
spot of lunch
spot of sleep
spot pass
spot pawn
spot pickup
spot plate
spot price
spot rot
spot sale
spot stroke
spot test
spot weld
spot welder
spot welding
spot white
spot zone
spot-barred
spot-billed
spot-check
spot-drill
spot-eared
spot-face
spot-grind
spot-leaved
spot-lipped
spot-mill
spot-on
spot-soiled
spot-weld
spot-winged
spotted adder
spotted calla lily
spotted cavy
spotted cowbane
spotted crake
spotted crane's-bill
spotted dick
spotted fever
spotted flycatcher
spotted hemlock
spotted hyena
spotted joe-pye weed
spotted sandpiper
spotted spurge
spotted sunfish
spotted wilt
spotted wintergreen
spotted-beaked
spotted-bellied
spotted-billed
spotted-breasted
spotted-eared
spotted-fever tick
spotted-finned
spotted-leaved
spotted-necked
spotted-tailed
spotted-winged
spotter plane
spotting machine
spotting motion
spotting scope
spotty market
spouse-breach
spout adz
spout cup
spout fish
spout hole
spout off
spout out
spout shell
spout-hole
spouting horn
spraddle-legged
sprag road
sprain fracture
sprangle-top
sprat barley
sprat borer
sprat day
sprat loon
sprat-barley
spray can
spray carburetor
spray drain
spray gun
spray nozzle
spray outfit
spray strip
spray-casting
spray-decked
spray-shaped
spray-topped
spray-washed
spray-wet
spread a large clew
spread a shade over
spread a shadow over
spread a small clew
spread about
spread city
spread eagle
spread formation
spread light
spread like wildfire
spread on
spread on a color
spread on the record
spread out
spread over
spread reflection
spread sail
spread sheet
spread sideways
spread sidewise
spread the toils
spread with
spread yourself
spread-eagle
spread-eagled
spread-eagleism
spread-eagleist
spread-eagling
spread-out
spread-over
spread-set
spreader beam
spread car
spreading abroad
spreading board
spreading dogbane
spreading factor
spreading like a cancer
spreading like wildfire
spreading machine
spreading out
spreading too thin
sprig bolt
sprig budding
sprig-bit
sprig-tailed
sprightly wit
spring a leak
spring a mine under
spring a surprise
spring apart
spring azure
spring back
spring balance
spring barley
spring base
spring beam
spring beauty
spring bed
spring beetle
spring bell
spring binder
spring block
spring bolt
spring bows
spring brass
spring caliper
spring calipers
spring cankerworm
spring catarrh
spring catch
spring chair
spring chicken
spring clip
spring collet
spring corn
spring cotter
spring cowslip
spring cress
spring detent
spring die
spring dividers
spring draft gear
spring faucet
spring fever
spring flood
spring fly
spring frog
spring from
spring governor
spring grain aphis
spring grass
spring green
spring gun
spring hammer
spring harrow
spring heath
spring heel
spring herring
spring hoe
spring hook
spring iris
spring key
spring lamb
spring latch
spring leaf
spring ligament
spring lily
spring line
spring lock
spring mattress
spring molding
spring mushroom
spring needle
spring nut
spring oats
spring onion
spring open
spring orange
spring orchid
spring pad
spring padlock
spring peeper
spring perch
spring pin
spring plate
spring pole
spring rail
spring rains
spring ring
spring rye
spring safety valve
spring sage
spring saxifrage
spring scale
spring scorpion grass
spring seat
spring snow
spring snowflake
spring starflower
spring stay
spring steel
spring stripper
spring switch
spring temper
spring the eye
spring tide
spring to your feet
spring tool
spring tooth
spring training
spring up
spring upon
spring valve
spring vetch
spring vetchling
spring vise
spring wagon
spring washer
spring water
spring weir
spring wheat
spring wheel
spring-beam
spring-blooming
spring-blossoming
spring-board
spring-born
spring-budding
spring-clean
spring-cleaner
spring-cleaning
spring-driven
spring-flood
spring-flowering
spring-framed
spring-gathered
spring-grown
spring-habited
spring-head
spring-headed
spring-heeled
spring-jointed
spring-loaded
spring-lock
spring-made
spring-peering
spring-planted
spring-plow
spring-rail frog
spring-raised
spring-seated
spring-set
spring-snecked
spring-sowed
spring-sown
spring-spawning
spring-stricken
spring-tail
spring-taught
spring-tempered
spring-tide
spring-tight
spring-tooth harrow
spring-touched
spring-trip
spring-trip hoe
spring-well
spring-wood
springer spaniel
springing cow
springing line
springing point
springing wall
springtide of life
springtime of life
sprinkler head
sprinkler system
sprinkling can
sprinkling system
sprint car
sprint medley
sprint race
sprite crab
spritsail topmast
spritsail yard
sproat hook
sprocket wheel
sprout cell
sprout forest
sprout from
sprout up
sprout wings
sprouted oats
spruce bark beetle
spruce beer
spruce budworm
spruce fir
spruce grouse
spruce pine
spruce sawfly
spruce up
spruce yellow
spruced up
sprung molding
sprung rhythm
spud casing
spud in
spud-bashing
spudding bar
spule-bane
spun glass
spun hay
spun out
spun rayon
spun silk
spun sugar
spun yarn
spun-out
spunk up
spur bit
spur blight
spur bunting
spur chuck
spur dike
spur forger
spur fowl
spur gall
spur gear
spur gear wheel
spur gearing
spur grass
spur mortise gear
spur on
spur pepper
spur pinion
spur pruning
spur royal
spur ryal
spur shell
spur shore
spur stone
spur timber
spur track
spur tree
spur valerian
spur whang
spur wheel
spur-bearing
spur-clad
spur-driven
spur-finned
spur-gall
spur-galled
spur-g geared
spur-heeled
spur-jingling
spur-leather
spur-of-the-moment
spur-of-the-moment response
spur-off-the-moment
spur-rowel
spur-royal
spur-shaped
spur-tailed
spur-toed
spur-wing
spur-winged
spurge daphne
spurge family
spurge flax
spurge ipecac
spurge laurel
spurge moth
spurge nettle
spurge olive
spurge thyme
spurge-wort
spurious wing
spurling line
spurling pipe
spurry sandwort
spurt of rain
sputter and stop
sputum cup
spy glass
spy on
spy out
spy plane
spy ship
spy upon
spy-catcher
spy-glass
squab broiler
squab pie
squab-pie
squabble over
squad car
squad leader
squad room
squadron leader
squadrons-left
squadrons-right
squall cloud
squall line
squam duck
squam-
squamo-
squamo-occipital
squamoso-
squamous epithelium
squander in dribs and drabs
squanter-squash
square accounts
square accounts with
square and rabbet
square away
square bit
square body
square bracket
square cap
square centimeter
square contingency
square dance
square dancing
square deal
square dealing
square file
square foot
square frame
square inch
square it
square joint
square kilometer
square knot
square leg
square mark
square matrix
square meal
square measure
square meter
square mile
square millimeter
square number
square odds
square of opposition
square off
square one
square peg in a round hole
square piano
square rig
square root
square root planimeter
square sail
square-marked
square-meshed
square-mouthed
square-necked
square-nosed
square-rigged
square-rigger
square-root flowmeter
square-rumped
square-set
square-set stoping
square-shafted
square-shaped
square-shooting
square-shouldered
square-skirted
square-stalked
square-stem
square-stemmed
square-sterned
square-tailed
square-thread
square-threaded
square-tipped
square-toed
square-toedness
square-toes
square-topped
square-towered
square-wave generator
squared circle
squared off
squared paper
squared ring
squared splice
squaring lathe
squaring the circle
squarroso-
squarroso-dentate
squarroso-laciniate
squarroso-pinnatipartite
squarroso-pinnatisect
squash beetle
squash bite
squash borer
squash bug
squash court
squash flea beetle
squash ladybird
squash rackets
squash racquets
squash tennis
squash vine borer
squash-
squash-vine borer
squashed flat
squat board
squat on
squat tag
squat-bodied
squat-built
squat-hatted
squatter sovereignty
squatter's right
squaw carpet
squaw corn
squaw duck
squaw huckleberry
squaw man
squaw mint
squaw vine
squaw waterweed
squaw winter
squaw-drops
squawk box
squawk duck
squeak by
squeak through
squeal on
squeegee roller
squeeze bottle
squeeze box
squeeze in
squeeze joint
squeeze out
squeeze out a living
squeeze play
squeeze shut
squeeze your hand
squeeze-box
squeeze-up
squeezed joint
squeezed shut
squeezing out
squelch circuit
squelette clock
squid hound
squid-jigger
squid-jigging
squill blue
squill-like
squinancy berry
squinch arch
squinch-eyed
squint brick
squint eyes
squint the eye
squint-eye
squint-eyed
squint-eyedness
squinting construction
squire snapper
squirm out of
squirm with embarrassment
squirm with self-consciousness
squirrel away
squirrel cage
squirrel cage rotor motor
squirrel corn
squirrel cup
squirrel food
squirrel frog
squirrel grass
squirrel hake
squirrel hawk
squirrel monkey
squirrel mouse
squirrel phalanger
squirrel plague
squirrel rifle
squirrel shrew
squirrel something away
squirrel tail
squirrel tail grass
squirrel's-ear
squirrel's-foot fern
squirrel-cage motor
squirrel-colored
squirrel-eyed
squirrel-headed
squirrel-limbed
squirrel-minded
squirrel-tail
squirrel-tail grass
staff angle
staff bead
staff captain
staff car
staff college
staff commander
staff corps
staff degree
staff department
staff notation
staff nurse
staff of Aesculapius
staff of life
staff of office
staff officer
staff ride
staff rush
staff section
staff sergeant
staff sling
staff surgeon
staff system
staff tree
staff vine
staff walk
staff work
staff-herd
staff-tree family
staffordshire terrier
stag beetle
stag bush
stag dance
stag film
stag gang
stag moss
stag party
stag sumac
stag the market
stag tick
stag's-horn coral
stag-beetle
stag-evil
stag-eyed
stag-hafted
stag-handled
stag-headed
stag-headedness
stag-horn
stag-horned
stag-necked
stag-sure
stage boat
stage box
stage brace
stage business
stage carriage
stage cloth
stage coachman
stage direction
stage directions
stage director
stage door
stage effect
stage fright
stage left
stage lighting
stage management
stage manager
stage managership
stage micrometer
stage name
stage peg
stage performance
stage performer
stage play
stage player
stage playing
stage pocket
stage presence
stage presentation
stage property
stage right
stage scenery
stage screw
stage set
stage setter
stage setting
stage show
stage technician
stage wagon
stage wait
stage whisper
stage world
stage, the
stage-blanks
stage-bleed
stage-coach
stage-frighten
stage-manage
stage-managed
stage-manager
stage-managing
stage-set
stage-struck
stagger along
stagger belief
stagger grass
stagger head
stagger on
stagger spokes
stagger wire
stagger wires
staggered head
staggering belief
staggering blow
staggering bob
staggering drunk
staghorn coral
staghorn fern
staghorn moss
staghorn sumac
staging area
staging nail
stagnant market
stagnant water
stagnant-blooded
stagnant-minded
stagnant-souled
stagnation mastitis
staight-bred
stain paper
stained glass
stained glass window
stainless steel
stainless-steel ware
stair horse
stair rail
stair rod
stair tower
stair turret
stair well
stair wire
stair-foot
stair-head
stair-step
stair-stepper
staircase curve
staircase shell
stake boat
stake body
stake down
stake driver
stake horse
stake net
stake out
stake race
stake truck
stake your claim
stake-boat
stakes race
staking your claim
stalactite vault
stalactite work
stalagmite marble
stale repetition
stale-drunk
stale-grown
stale-mouthed
stale-worn
stalk borer
stalk disease
stalk smut
stalk-eyed
stalking-horse
stall angl
stall angle
stall angle of attack
stall around
stall for time
stall landing
stall net
stall off
stall plate
stall reader
stall-fed
stall-feed
stall-feeding
stall-like
stall-master
stalling angle
stalling angle of attack
stalling speed
stand back of
stand bail for
stand behind
stand by
stand by the main sheet
stand by the side of
stand by to weigh anchor
stand clear of
stand condemned
stand down
stand drinks
stand easy
stand erect
stand fair to
stand fast
stand fire
stand firm
stand first
stand for
stand for office
stand forth
stand from
stand guard
stand guard over
stand hawk
stand high
stand house
stand in
stand in a white sheet
stand in awe of
stand in dread of
stand in for
stand in for the land
stand in front
stand in good stead
stand in need of
stand in the place of
stand in the stead of
stand in the way
stand in the way of
stand in with
stand in your own light
stand like a post
stand method
stand mute
stand neuter
stand no nonsense
stand of arms
stand of timber
stand off
stand off and on
stand oil
stand on
stand on a course
stand on a straight course
stand on a volcano
stand on ancient ways
stand on ceremony
stand on end
stand on tiptoe
stand on tiptoes
stand on your own
stand on your own feet
stand on your own legs
stand on your own two feet
stand on your rights
stand one in hand
stand opposed
stand opposite
stand or fall with
stand out
stand out from the shore
stand over
stand over against
stand pat
stand ready
stand responsible for
stand rest
stand revealed
stand sentinel
stand shoulder to shoulder
stand shoulder to shoulder with
stand sponsor for
stand still
stand the costs
stand the gaff
stand the hazard of the die
stand the test
stand to
stand to attention
stand to gain
stand to lose
stand to reason
stand to your engagement
stand together
stand treat
stand under
stand up
stand up against
stand up and be counted
stand up for
stand up for Jesus
stand up straight
stand up to
stand up with
stand upon
stand upon a course
stand upon your rights
stand upright
stand vis-a-vis
stand with arms akimbo
stand you in good stead
stand you in stead
stand your ground
stand your trick
stand your watch
stand-by
stand-bys
stand-down
stand-easy
stand-in
stand-off
stand-off half
stand-offish
stand-offishly
stand-offishness
stand-on vessel
stand-patter
stand-pipe
stand-to
stand-up
stand-up comedian
stand-up comedy
stand-up comedy act
stand-up comic
stand-up fight
standard article
standard atmosphere
standard band
standard behavior
standard broadcasting
standard candle
standard cell
standard coke
standard compass
standard cost
standard deviation
standard dialect
standard dollar
standard error
standard gauge
standard language
standard lining
standard microphone
standard money
standard of comfort
standard of life
standard of living
standard of perfection
standard of value
standard operating procedure
standard page
standard phrase
standard pitch
standard position
standard refraction
standard stock
standard time
standard transmission
standard usage
standard work
standard-bearer
standard-bearership
standard-bred
standard-gage
standard-gaged
standard-gauge
standard-gauged
standard-sized
standard-wing
standardized test
stander-by
standing against
standing apart
standing army
standing at attention
standing barrage
standing broad jump
standing committee
standing custom
standing for office
standing gaff
staple-shaped
stapling machine
star acacia
star anise
star anise oil
star aniseed
star antimony
star apple
star belt
star bomb
star buzzard
star capsicum
star catalog
star catalogue
star chart
star check
star chickweed
star cloud
star cluster
star colors
star connection
star coral
star count
star cucumber
star cut
star density
star disk
star drift
star drill
star dust
star facet
star feed
star fern
star finch
star finder
star fort
star gauge
star gear
star ghost
star gooseberry
star grass
star hummingbird
star hyacinth
star image
star in the firmament
star ipomoea
star jasmine
star jelly
star lily
star lot
star map
star metal
star motion
star network
star of David
star of bethlehem
star of david
star pagoda
star pepper
star phlox
star pine
star place
star plate
star plum
star point
star polygon
star position
star quartz
star ratio
star reed
star route
star ruby
star sapphire
star saxifrage
star scout
star shake
star shell
star shifter
star shower
star skunk
star slough
star spectroscopy
star spray
star stream
star streaming
star system
star thistle
star time
star trail
star tulip
star turn
star violet
star wheel
star winding
star worship
star worshiper
star-apple
star-aspiring
star-bearing
star-bedecked
star-bedizened
star-bespotted
star-bestudded
star-blasting
star-born
star-bright
star-brodered
star-chamber
star-climbing
star-connected
star-crossed
star-crossed life
star-decked
star-directed
star-distant
star-dogged
star-dust
star-embroidered
star-eyed
star-fashion
star-fed
star-flower
star-flowered
star-gaze
star-gazer
star-gazing
star-grass
star-inwrought
star-leaved
star-led
star-like
star-mouthed
star-nosed
star-nosed mole
star-of-Bethlehem
star-of-Jerusalem
star-of-bethlehem
star-paved
star-peopled
star-pointed
star-proof
star-ribbed
star-scattered
star-shaped
star-shot
star-skilled
star-spangled
star-spangled banner
star-staring
star-stone
star-studded
star-surveying
star-sweet
star-taught
star-thistle
star-throated
star-watching
star-wearing
star-wise
star-ypointing
starboard anchor
starboard engine
starboard engine ahead
starboard tack
starch blue
starch cellulose
starch corn
starch gum
starch hyacinth
starch layer
starch paste
starch room
starch sheath
starch sirup
starch star
starch syrup
starch tree
starch-digesting
starch-producing
starch-reduced
starch-sized
stare at
stare decisis
stare down
stare hard
stare openmouthed
stare out
stare out of countenance
stare you in the face
stare-about
starfish flower
stark blind
stark dead
stark naught
stark upright
stark-awake
stark-becalmed
stark-blind
stark-calm
stark-dead
stark-drunk
stark-dumb
stark-false
stark-mad
stark-naked
stark-naught
stark-new
stark-raving
stark-raving mad
stark-spoiled
stark-staring
stark-staring mad
stark-stiff
stark-wild
stark-wood
starling stone
starnose mole
starring role
starry campion
starry grasswort
starry heaven
starry heavens
starry host
starry orbs
starry-bright
starry-eyed
starry-eyed over
starry-flowered
starry-golden
starry-headed
starry-nebulous
stars and bars
stars and stripes
stars-of-Bethlehem
stars-of-Jerusalem
start all over
start aside
start back
start going
start in
start music
start off
start on
start out
start the ball rolling
start up
start-naked
start-off
start-stop switch
start-up
starter-off
starting block
starting box
starting friction
starting gate
starting grid
starting handle
starting line
starting note
starting place
starting point
starting post
starting price
starting punch
starting stalls
starting step
starting torque
starting-hole
startle the echoes
startling resemblance
starvation diet
starvation treatment
starvation wages
starved-looking
stash away
stat mi
state a grievance
state aid
state assembly
state attorney
state bank
state bond
state capitalism
state chairman
state chamber
state church
state college
state convention
state coordinate system
state flower
state forest
state guard
state highway
state hospital
state legislature
state medicine
state mutual
state note
state of affairs
state of being
state of being one
state of expectancy
state of grace
state of mind
state of nature
state of nerves
state of suspense
state of the exchequer
state of the market
state of things
state of war
state ownership
state paper
state police
state prayers
state prison
state religion
state rights
state school
state senator
state services
state socialism
state socialist
state tax
state trial
state trooper
state university
state your case
state's attorney
state's evidence
state-aided
state-caused
state-changing
state-educated
state-enforced
state-fed
state-house
state-making
state-mending
state-monger
state-of-the-art
state-owned
state-paid
state-pensioned
state-provided
state-provisioned
state-prying
state-ridden
state-room
state-ruling
state-socialist
state-taxed
state-wide
state-wielding
stated cause
stated clerk
stated value
stateless person
stately home
stately-beauteous
stately-grave
stately-paced
stately-sailing
stately-storied
stately-written
statement covering the evidence
statement covering the facts
statement of belief
statement of claim
statement of defense
statement of facts
statement of principles
statement under oath
states general
states' righter
states' rights
states-people
static ceiling
static electricity
static field
static firing
static friction
static line
static propeller thrust
static stability
static tube
static water
station agent
station break
station day
station error
station hospital
station house
station hut
station identification
station interference
station jack
station keeping
station mark
station point
station pointer
station pole
station selector
station wagon
station-house
station-to-station
station-to-station call
stationary dive
stationary engine
stationary engineer
stationary engineering
stationary front
stationary orbit
stationary point
stationary state
stationary wave
stationery store
stations for diving
stations of the Cross
stations of the cross
statistical communication
statistical independence
statistical mechanics
statistical prediction
statistical probability
statistical survey
statistically probable
stato-
statu quo ante
statuary bronze
statuary marble
statue maker
statue making
statue of liberty
statue-blind
statue-bordered
statue-turning
statuelike repose
statues personal
status emphaticus
status in quo
status quo
status quo ante
status seeker
status symbol
status-seeking
statute book
statute fair
statute labor
statute law
statute merchant
statute mile
statute of limitations
statute roll
statute staple
statute-barred
statute-book
statutes mixed
statutory crime
statutory declaration
statutory law
statutory lien
statutory next of kin
statutory offense
statutory rape
statutory referendum
staunch belief
staunch friend
staunch friendship
stauro-
stave basket
stave in
stave oak
stave off
stave pipe
stave rhyme
stay alert
stay alive
stay aloof
stay at
stay your hand
stay-a-while
stay-at-home
stay-bearer
stay-bolt
stay-in
stay-in strike
stay-log
stay-ship
stay-tape
staying over
staying power
staysail schooner
steadfast faith
steady market
steady nerves
steady pin
steady rest
steady so
steady state
steady state theory
steady temper
steady-eyed
steady-footed
steady-going
steady-handed
steady-handedness
steady-headed
steady-hearted
steady-looking
steady-minded
steady-nerved
steady-state theory
steady-state universe
steady-stream
steady as you go
steak and kidney pie
steak hammer
steak knife
steak raid
steak set
steak tartar
steak tartare
steal a march
steal a march on
steal a march upon
steal along
steal away
steam hammer
steam harvester
steam heat
steam heater
steam heating
steam in line
steam in line of bearing
steam injector
steam iron
steam jacket
steam jammer
steam joint
steam knife
steam lance
steam lap
steam launch
steam lead
steam line
steam locomotive
steam loop
steam mason
steam metal
steam molder
steam navvy
steam nigger
steam nozzle
steam organ
steam owner
steam packing
steam piano
steam pipe
steam piping
steam plow
steam point
steam port
steam power
steam press
steam printing
steam propulsion
steam pump
steam radiator
steam radio
steam ram
steam road
steam roller
steam room
steam schooner
steam shovel
steam sizes
steam sloop
steam stamp
steam still
steam table
steam tackle
steam thresher
steam trap
steam tug
steam turbine
steam twill
steam up
steam valve
steam vessel
steam whistle
steam yacht
steam-boiler
steam-chest
steam-clean
steam-cleaned
steam-cooked
steam-cut
steam-distill
steam-dredge
steam-dried
steam-driven
steam-eating
steam-engine
steam-filled
steam-going
steam-heat
steam-heated
steam-lance
steam-lanced
steam-lancing
steam-laundered
steam-pocket
steam-processed
steam-propelled
steam-ridden
steam-roll
steam-roller
steam-shovel
steam-treated
steam-turbine
steam-turbine locomotive
steam-type
steam-wrought
steamboat Gothic
steamboat coal
steamboat gothic
steamboat ratchet
steamed pudding
steamed up
steamed up about
steamer anchorage
steamer basket
steamer captain
steamer chair
steamer clam
steamer contract
steamer crew
steamer cruise
steamer dock
steamer duck
steamer freight
steamer funnel
steamer hull
steamer landing
steamer lane
steamer line
steamer passenger
steamer port
steamer road
steamer route
steamer rug
steamer sailing
steamer service
steamer siren
steamer smoke
steamer smokestack
steamer subsidy
steamer ticket
steamer track
steamer traffic
steamer travel
steamer trunk
steamer voyage
steamer wharf
steamer whistle
steamer-borne
steaming up
steamroller methods
steamroller through
steamship coal
steamship company
steamship freight
steamship lane
steamship line
steamship mail
steamship office
steamship route
steamship service
steamship ticket
steamship traffic
steamship travel
steamship voyage
stearic acid
stear-
stearoyl group
stearoyl radical
steat-
steato-
steel band
steel bar
steel baron
steel blue
steel bronze
steel company
steel concrete
steel construction
steel drawer
steel dresser
steel electotype
steel emery
steel engraver
steel engraving
steel factory
steel fiber
steel glass
steel gray
steel grey
steel guitar
steel hand
steel lumber
steel magnate
steel man
steel manufacturer
steel manufacturing
steel master
steel measurer
steel merchant
steel mill
steel mirror
steel orchestra
steel pen
steel plate
steel presser
steel share
steel spring
steel square
steel string
steel town
steel trap
steel wire gauge
steel wool
steel yourself
steel-black
steel-blue
steel-bound
steel-bow
steel-bright
steel-cage
steel-cage construction
steel-capped
steel-cased
steel-clad
steel-clenched
steel-cold
steel-colored
steel-covered
steel-cut
steel-die printing
steel-digesting
steel-edged
steel-faced
steel-framed
steel-grained
steel-graven
steel-gray
steel-green
steel-hard
steel-hardened
steel-head
steel-headed
steel-hilted
steel-lined
steel-nerved
steel-pointed
steel-rimmed
steel-riveted
steel-shafted
steel-sharp
steel-shod
steel-strong
steel-studded
steel-tempered
steel-tipped
steel-tired
steel-topped
steel-trap
steeled against
steelhead trout
steep price
steep slope
steep-ascending
steep-backed
steep-bending
steep-descending
steep-down
steep-faced
steep-gabled
steep-hanging
steep-pitched
steep-pointed
steep-rising
steep-roofed
steep-scarped
steep-sided
steep-streeted
steep-to
steep-up
steep-walled
steep-yawning
steeped in iniquity
steeped in vice
steeple bellflower
steeple cup
steeple engine
steeple hat
steeple headdress
steeple hunt
steeple hunter
steeple hunting
steeple jack
steeple race
steeple racer
steeple racing
steeple skull
steeple-crown
steeple-crowned
steeple-head
steeple-high
steeple-house
steeple-jacking
steeple-loving
steeple-roofed
steeple-shadowed
steeple-shaped
steeple-studded
steeple-topped
steer a middle course
steer a straight course
steer an even course
steer away from
steer clear of
steer for
steer oar
steer toward
steerage passenger
steering arm
steering axle
steering box
steering bridge
steering column
steering committee
steering crutch
steering engine
steering fan
steering fork
steering gear
steering handle
steering head
steering joint
steering knuckle
steering lever
steering light
steering line
steering lock
steering oar
steering pillar
steering wheel
stego-
stellar cosmogony
stellar magnitude
stellar photometry
stellate-crystal
estellate-crystal fungus
stellate-pubescent
stem anchor
stem blight
stem borer
stem break
stem canker
stem cell
stem climber
stem cutting
stem duchy
stem eelworm
stem end
stem father
stem from
stem ginger
stem girdler
stem leaf
stem length
stem mother
stem rot
stem rust
stem sapper
stem sawfly
stem sickness
stem smut
stem stitch
stem the current
stem the flood
stem the tide
stem turn
stem work
stem-bearing
stem-bud
stem-clasping
stem-end rot
stem-sick
stem-wind
stem-winder
stem-winding
stem-winding watch
sten-
stench bomb
stench of decay
stench trap
stencil cutter
stencil cutting
stencil machine
stencil painting
stencil paper
stencil pen
stencil printing
steno saurys
steno-
stenographing machine
stent net
stent roll
step along
step aside
step backward
step bearing
step box
step by step
step chair
step cut
step dance
step dancer
step dancing
step down
step fault
step flight
step forward
step function
step gauge
step grate
step in
step into a fortune
step into the limelight
step into the place of
step into the shoes of
step joint
step lively
step of time
step off
step on
step on it
step on its tail
step on the gas
step on your corns
step on your toes
step out
step out of
step over
step rail
step rate
step rocket
step socket
step stool
step tap
step terrace
step to the fore
step to the front
step turn
step up
step up the ladder
step ward
step wheel
step-
step-and-repeat
step-back
step-back relay
step-by-step
step-by-step switching
step-cline
step-cone
step-cone pulley
step-cut
step-down
step-down transformer
step-in
step-ins
step-ladder
step-log
step-off
step-on
step-parent
step-up
step-up transformer
steppe cat
steppe disease
steppe murrain
steppe rue
stepped line
stepped-up
stepping in
stepping line
stepping pace
stepping stone
stepping-off
stepping-off place
stepping-out
stepping-stone
stepping-stones
steps and measures
stercoral ulcer
sterculia gum
stere-
stereo camera
stereo formula
stereo microphone
stereo-
stereophonic sound system
stereophonic system
stereoscopic microscope
stereospecific catalyst
stereospecific polymer
stereotyped behavior
stereotyped saying
sterling area
sterling bloc
sterling silver
stern anchor
stern board
stern boat
stern chase
stern chaser
stern fast
stern frame
stern gallery
stern gun
stern hatch
stern hatchway
stern hook
stern knee
stern ladder
stern line
stern race
stern rail
stern sea
stern sheets
stern staysail
stern timber
stern tube
stern walk
stern wave
stern wheel
stern window
stern-bearer
stern-board
stern-born
stern-browed
stern-chase
stern-chaser
stern-eyed
stern-faced
stern-fast
stern-featured
stern-gated
stern-issuing
stern-lipped
stern-looking
stern-minded
stern-mouthed
stern-post
stern-set
stern-sheet
stern-sounding
stern-spoken
stern-visaged
stern-wheel
stern-wheeler
sterno-
sterro metal
sterro-metal
stetho-
stevedore knot
stevedore's knot
stew in your own juice
stew over
steward's department
stewing chicken
sthula sharira
stib-
stibio-
stick around
stick around or about
stick at
stick at nothing
stick bean
stick bug
stick by
stick caterpillar
stick chair
stick close
stick closer than a brother
stick control
stick down
stick fast
stick figure
stick for
stick in
stick in the mud
stick in your craw
stick in your crop
stick in your gizzard
stick in your throat
stick insect
stick it
stick it out
stick lac
stick licorice
stick like a barnacle
stick like a leech
stick like a limpet
stick like a wet shirt
stick like glue
stick like the shadow of
stick like wax
stick of wood
stick out
stick out a mile
stick out like a sore thumb
stick out over
stick pin
stick rider
stick salve
stick shift
stick to
stick to it
stick to like a barnacle
stick to the
stick to the facts
stick to your colors
stick to your guns
stick to your knitting
stick to your last
stick together
stick up
stick up for
stick with
stick with it
stick your head in the sand
stick your long nose into
stick your neck out
stick your nose in
stick-at-it
stick-at-it-ive
stiff as buckram
stiff aster
stiff bit
stiff breeze
stiff climb
stiff collar
stiff gentian
stiff market
stiff neck
stiff price
stiff temper
stiff wind
stiff-arm
stiff-armed
stiff-backed
stiff-bearded
stiff-bent
stiff-billed
stiff-bodied
stiff-bolting
stiff-boned
stiff-bosomed
stiff-branched
stiff-built
stiff-clay
stiff-collared
stiff-docked
stiff-dressed
stiff-eared
stiff-grown
stiff-haired
stiff-horned
stiff-ironed
stiff-jointed
stiff-jointedness
stiff-kneed
stiff-lamb disease
stiff-land
stiff-leathered
stiff-leaved
stiff-legged
stiff-limbed
stiff-lipped
stiff-minded
stiff-mud
stiff-neck
stiff-necked
stiff-necked pride
stiff-neckedly
stiff-neckedness
stiff-plate
stiff-pointed
stiff-rimmed
stiff-rumped
stiff-rusting
stiff-shanked
stiff-skirted
stiff-starched
stiff-stretched
stiff-swatthed
stiff-tailed
stiff-udderred
stiff-veined
stiff-winged
stiff-witted
stiffen your backbone
stiffening bar
stiffening order
stiffening truss
stiffleg derrick
stifle bone
stifle joint
stifle shoe
stifle-out
stigma disk
stigmal vein
stigmatic grating spectrograph
stil-de-grain yellow
stilbene dye
stilbene color
stiletto fly
stiletto heel
stiletto-proof
stiletto-shaped
still alarm
still and all
still as a mouse
still as a statue
still as death
still box
still camera
still head
still hunt
still life
still lifes
still liquor
still more
still photograph
still return
still room
still small voice
still small voice within
still trailer
still watcher
still water
still wine
still-admired
still-birth
still-born
still-burn
still-closed
still-continued
still-continuing
still-diminishing
still-existing
still-fish
still-fisher
still-fishing
still-florid
still-flowing
still-fresh
still-gazing
still-hunt
still-hunter
still-hunting
still-improving
still-increasing
still-life
still-life painter
still-life painting
still-living
still-new
still-pagan
still-pining
still-recurring
still-refuted
still-renewed
still-repaired
still-rocking
still-room
still-sick
still-slaughtered
still-stand
still-unmarried
still-vexed
still-watching
still-young
stilling box
stilling well
stilt bug
stilt palm
stilt petrel
stilt plover
stilt sandpiper
stilt wheel
stilt-legged
stimulus coefficient
stimulus error
stimulus generalization
stimulus threshold
stimulus word
stimulus-response
stimulus-response psychology
sting bladder
sting moth
sting nettle
sting of conscience
sting ray
sting to the quick
sting winkle
stinging capsule
stinging cell
stinging defeat
stinging hair
stinging nettle
stingless bee
stink ball
stink bell
stink bomb
stink brand
stink bug
stink cat
stink fly
stink gland
stink grass
stink in the nostrils
stink out
stink trap
stink up
stink-horn
stink-pot
stinking badger
stinking cedar
stinking clover
stinking drunk
stinking iris
stinking mayweed
stinking roger
stinking smut
stinky pinkie
stipple board
stipple engraving
stipple paper
stipple streak
stipulate for
stir about
stir bird
stir feelings
stir of air
stir one's blood
stir the blood
stir the embers
stir the feelings
stir the fire
stir up
stir up a hornet's nest
stir up trouble
stir your bile
stir your stumps
stir-fry
stir-up
stirred up
stirring up
stirring-up
stirrup bar
stirrup bone
stirrup cover
stirrup cup
stirrup dram
stirrup glass
stirrup iron
stirrup jar
stirrup leather
stirrup oil
stirrup pump
stirrup strap
stirrup-vase
stitch in the side
stitch of work
stitch rivet
stitch watermark
stitch wheel
stitching horse
stochastic independence
stochastic matrix
stock account
stock assessment
stock beer
stock beet
stock block
stock board
stock book
stock buckle
stock car
stock card
stock cattle
stock certificate
stock certificate
stock change
stock clerk
stock company
stock dealer
stock dealing
stock dividend
stock dove
stock duck
stock eagle
stock exchange
stock family
stock farm
stock farmer
stock farming
stock feeder
stock fire
stock footage
stock gillyflower
stock gold
stock guard
stock hawk
stock horse
stock in trade
stock insurance company
stock issue
stock ledger
stock list
stock lock
stock manipulation
stock margin
stock market
stock market quotations
stock note
stock of words
stock option
stock owl
stock pass
stock pigeon
stock pile
stock power
stock price
stock price index
stock prices
stock pump
stock purse
stock rail
stock raiser
stock raising
stock rate
stock receipt
stock record
stock room
stock saddle
stock saying
stock shot
stock soap
stock solution
stock speculation
stock speculator
stock split
stock station
stock still
stock tackle
stock the mind
stock ticker
stock type
stock up
stock vaccine
stock whaap
stock whip
stock-blind
stock-broker
stock-car
stock-car race
stock-dove
stock-dumb
stock-exchange broker
stock-fish
stock-gillyflower
stock-in-trade
stock-job
stock-jobber
stock-jobbing
stock-route
stock-still
stock-taking
stock-work
stockbroker belt
stockholder of record
stocking board
stocking cap
stocking cutter
stocking cutter tool
stocking filler
stocking frame
stocking hose
stocking knitter
stocking knitting
stocking loom
stocking machine
stocking maker
stocking making
stocking mask
stocking needle
stocking sole
stocking spinner
stocking stitch
stocking stuffer
stocking the mind
stocking trimmer
stocking weaver
stocking-foot
stocking-frame
stockless anchor
stocks and bonds
stocks machine
stoech-
stoke the fire
stoke up
stoke-hole
stole fee
stole mesh
stole-shaped
stolen goods
stolen property
stom-
stomach ache
stomach bucket
stomach condition
stomach cough
stomach piece
stomach poison
stomach pump
stomach staggers
stomach sweetbread
stomach tooth
stomach tube
stomach ulcer
stomach upset
stomach worm
stomach-ache
stomach-achy
stomach-filling
stomach-formed
stomach-hating
stomach-healing
stomach-qualmed
stomach-shaped
stomach-sick
stomach-soothing
stomach-tight
stomach-turning
stomach-twitched
stomach-weary
stomach-whetted
stomach-worn
stomat-
stomato-
stomodaeal food
stone age
stone ax
stone axe
stone bag
stone basil
stone bass
stone blue
stone boiling
stone bolt
stone borer
stone brake
stone bramble
stone breaker
stone breaking
stone brick
stone ocher
stone oil
stone orpine
stone owl
stone parsley
stone perch
stone picker
stone pine
stone pit
stone pitch
stone plover
stone proof
stone rag
stone roller
stone rue
stone run
stone runner
stone saw
stone sclerenchyma
stone sculpture
stone shifter
stone snipe
stone sucker
stone thrush
stone to death
stone toter
stone wall
stone wine
stone wire
stone writing
stone yellow
stone's throw
stone-arched
stone-asleep
stone-axe
stone-bladed
stone-blind
stone-blindness
stone-bow
stone-broke
stone-brown
stone-bruised
stone-buff
stone-built
stone-cleaving
stone-coated
stone-cold
stone-colored
stone-covered
stone-cutter
stone-cutting
stone-darting
stone-dead
stone-deaf
stone-deafness
stone-dumb
stone-dust
stone-eared
stone-eating
stone-edged
stone-eyed
stone-faced
stone-floored
stone-fruit
stone-ground
stone-hand
stone-hard
stone-headed
stone-horse
stone-lily
stone-lined
stone-living
stone-milled
stone-moving
stone-parsley
stone-paved
stone-pillared
stone-pine
stone-ribbed
stone-rolling
stone-roofed
stone-silent
stone-smickle
stone-still
stone-throwing
stone-using
stone-vaulted
stone-wall
stone-walled
stone-walling
stoned-horse
stoner-out
stoney gate
stony coral
stony heart
stony pit
stony-blind
stony-broke
stony-eyed
stony-faced
stony-hearted
stony-heartedly
stony-heartened
stony-jointed
stony-pitiless
stony-toed
stony-winged
stooge around
stool ball
stool end
stool land
stool pigeon
stool-ball
stoop-gallant
stoop-shouldered
stooping from your high place
stop at nothing
stop bath
stop bead
stop blowing
stop breathing
stop by
stop chorus
stop clause
stop clock
stop cold
stop consonant
stop dead
stop dead in your tracks
stop down
stop drill
stop finger
stop for breath
stop gauge
stop in
stop in your tracks
stop in or stop by
stop it
stop key
stop knob
stop light
stop list
stop log
stop looking
store teeth
store the mind
store types
store up
store-bought
store-bought clothes
store-bought wear
store-boughten
store-room
store-ship
storefront school
storehouse of the mind
storehouse of words
stores ledger
storey house
storing the mind
stork's bill
stork's-bill
stork, the
stork-billed
stork-fashion
storm along
storm and stress
storm axis
storm bell
storm belt
storm boat
storm boot
storm breeder
storm cave
storm cellar
storm center
storm centre
storm cloud
storm clouds
storm coat
storm collar
storm cone
storm current
storm door
storm drain
storm drum
storm finch
storm flag
storm glass
storm gray
storm in
storm in a teacup
storm in a teapot
storm jib
storm kite
storm lane
storm lantern
storm mizzen
storm pennant
storm petrel
storm porch
storm rubber
storm sail
storm sash
storm serge
storm sewer
storm signal
storm stay
storm surge
storm thrush
storm track
storm tracking
storm trooper
storm troops
storm trysail
storm warning
storm wind
storm window
storm-armed
storm-beat
storm-beaten
storm-boding
storm-breathing
storm-cock
storm-drenched
storm-encompassed
storm-felled
storm-god
storm-laden
storm-lit
storm-portending
storm-presaging
storm-rent
storm-stayed
storm-swept
storm-tight
storm-tossed
storm-trooper
storm-washed
storm-wise
storm-worn
storm-wracked
storming party
stormy petrel
stormy weather
stormy winds
story element
story hour
story line
story post
story rod
story writer
story-teller
story-writing
story-wrought
stout fellow
stout heart
stout-armed
stout-billed
stout-bodied
stout-girdled
stout-hearted
stout-heartedly
stout-heartedness
stout-legged
stout-limbed
stout-looking
stout-minded
stout-ribbed
stout-sided
stout-soled
stout-stalked
stout-stomached
stout-winged
stout-worded
stove black
stove bolt
stove coal
stove distillate
stove enamel
stove glass
stove heating
stove in
stove length
stove lifter
stove oil
stove plant
stove poker
stove polish
stove-dried
stove-heated
stove-pipe
stove-warmed
stoved salt
stovepipe hat
stow away
stow down
stow it
stow net
stow-blade
stow-boating
straddle carrier
straddle mill
straddle pipe
straddle the fence
straddle truck
straddle-face
straddle-fashion
straddle-legged
straggle tooth
straggle-brained
stragling money
straight accent
straight across
straight ahead
straight and narrow
straight and narrow, the
straight angle
straight arch
straight arm lift
straight as a ruler
straight as an arrow
straight as an edge
straight away
straight bat
straight bill of lading
straight chain
straight chair
straight coil
straight course
straight deck
straight drama
straight face
straight fight
straight flush
straight forth
straight forward
straight from the shoulder
straight grain
straight hair shingle
straight jacket
straight joint
straight life insurance
straight line
straight man
straight matter
straight off
straight part
straight poker
straight razor
straight sailing
straight shooter
straight stall
straight stretch
straight thinking
straight ticket
straight time
straight to the mark
straight up
straight up and down
straight up-and-downness
straight whiskey
straight-arm
straight-backed
straight-barred
straight-barreled
straight-billed
straight-bitted
straight-bodied
straight-body
straight-cut
straight-drawn
straight-edge
straight-edged
straight-faced
straight-falling
straight-fibered
straight-flung
straight-flute
straight-fluted
straight-from-the-shoulder
straight-front
straight-going
straight-grained
straight-growing
straight-grown
straight-haired
straight-hairedness
straight-hemmed
straight-horned
straight-jointed
straight-laced
straight-lacedly
straight-leaved
straight-legged
straight-limbed
straight-line
straight-line-frequency
straight-lined
straight-made
straight-minded
straight-necked
straight-nosed
straight-out
straight-pull
straight-ribbed
straight-shaped
straight-shooting
straight-side
straight-sided
straight-sliding
straight-spoken
straight-stemmed
straight-stocked
straight-tail dog
straight-tailed
straight-thinking
straight-trunked
straight-tusked
straight-up
straight-up-and-down
straight-veined
straight-winged
straighten out
straighten up
straighten yourself out
straightway drill
strain at
strain band
strain diagram
strain ellipsoid
strain every nerve
strain every nerve and sinew
strain for
strain gauge
strain hardening
strain insulator
strain normal
strain sheet
strain the meaning
strain the muscles
strain the sense
strain the throat
strain the truth
strain the voice
strain theory
strain your attention
strain your credulity
strain your ears
strain your eyes
strain your invention
strained relations
strainer arch
strainer core
strainer gate
strainer vine
straining arch
straining beam
straining frame
straining piece
straining sill
strainslip cleavage
strait jacket
strait waistcoat
strait-besieged
strait-bodied
strait-braced
strait-breasted
strait-breeched
strait-chested
strait-clothed
strait-coated
strait-embraced
strait-jacket
strait-knotted
strait-lace
strait-laced
strait-lacedly
strait-lacedness
strait-lacer
strait-lacing
strait-necked
strait-sleeved
strait-tied
strait-toothed
strait-waistcoat
strait-waisted
straitened circumstances
straits dollar
strand fishery
strand flat
strand former
strand line
strand plover
strand rat
strand snipe
strand wolf
strange duck
strange particle
strange thing
strange to
strange to say
strange woman
strange-achieved
strange-clad
strange-colored
strange-composed
strange-disposed
strange-fashioned
strange-favored
strange-garbed
strange-looking
strange-met
strange-plumaged
strange-sounding
strange-tongued
strange-voiced
strange-wayed
stranger's gallery
strangers' gallery
strangle hold
strangled blade
strangler tree
strangulated hernia
strap bolt
strap brake
strap drill
strap fern
strap game
strap hammer
strap hinge
strap iron
strap joint
strap key
strap oil
strap oyster
strap rail
strap railroad
strap railway
strap watch
strap work
strap-hinge
strap-laid
strap-leaved
strap-oil
strap-shaped
strapping motion
strapping plate
strategic air force
strategic bombing
strategic line
strategic materials
strategic plan
strategic point
strati-
stratificational grammar
stratified charge engine
stratified discharge
stratigraphic geology
strato-
strato-cirrus
strato-cumulus
stratocumulus castellanus
stratocumulus castellatus
stratocumulus floccus
stratocumulus lenticularis
stratosphere balloon
stratus cloud
stratus cumuliformis
stratus fractus
stratus maculosus
stratus nebulosus
straw bail
straw ballot
straw basher
straw bass
strawberry borer
strawberry bush
strawberry cactus
strawberry clover
strawberry comb
strawberry crab
strawberry crown borer
strawberry crown moth
strawberry dish
strawberry fern
strawberry finch
strawberry fleabeetle
strawberry fly
strawberry geranium
strawberry guava
strawberry leaf
strawberry leaf blight
strawberry leaf roller
strawberry leaf spot
strawberry mark
strawberry moth
strawberry nettle
strawberry pear
strawberry perch
strawberry pink
strawberry raspberry
strawberry roan
strawberry root aphid
strawberry root borer
strawberry root weevil
strawberry rootworm
strawberry rust
strawberry sawfly
strawberry saxifrage
strawberry shrub
strawberry spinach
strawberry sunburn
strawberry tassel
strawberry tomato
strawberry tongue
strawberry tree
strawberry vine
strawberry weevil
strawberry-blond
strawberry-raspberry
strawberry-shrub family
strawhat circuit
strawhat theater
stray capacitance
stray current
stray energy
stray line
stray-line
streak culture
streak lightning
streak of lightning
streak of luck
streak plate
streaked-back
stream action
stream anchor
stream and dogs
stream bed
stream cable
stream capture
stream conservation
stream driver
stream forth
stream function
stream gold
stream ice
stream jam
stream of air
stream of consciousness
stream of fashion
stream of light
stream of time
stream piracy
stream the log
stream tin
stream wheel
stream-bordering
stream-drive
stream-embroidered
stream-illumed
stream-line
stream-of-consciousness
stream-of-consciousness novel
streamer aurora
streamer fly
streaming light
streaming potential
streamline flow
streams of rain
streams of sweat
street Arab
street academy
street arab
street band
street broker
street certificate
street cleaner
street coach
street cry
street door
street dress
street elbow
street fight
street floor
street game
street girl
street market
street name
street of fallen women
street orderly
street organ
street people
street piano
street plate
street price
street railway
street singer
street sweeper
street urchin
street virus
street-bred
street-cleaning
street-door
street-pacing
street-raking
street-sold
street-sprinkling
street-sweeping
street-walker
streetcar line
strength change
strength deck
strength of mind
strength of purpose
strength of will
strength-bringing
strength-conferring
strength-decaying
strength-giving
strength-increasing
strength-inspiring
strength-restoring
strength-sustaining
strength-testing
strengthening lead
strengthening card
strep throat
strepto-
streptococcus tonsillitis
stress accent
stress and strain
stress arsis
stress diagram
stress group
stress of life
stress pattern
stress reaction
stress sheet
stress-strain
stress-strain curve
stress-verse
stressed skin
stretch away to
stretch fabric
stretch forth a helping hand
stretch forth your hand
stretch mill
stretch modulus
stretch of the imagination
stretch of time
stretch out
stretch pants
stretch stockings
stretch the legs
stretch the meaning
stretch the sense
stretch the truth
stretch to
stretch your legs
stretch your luck
stretch yourself
stretch-out
stretched out
stretched tight
stretched-out
stretcher bar
stretcher bond
stretcher-bearer
stretching course
stretching everywhere
stretching of the truth
stretching out
stretching piece
stretching your luck
stretching-out
striato-
stricken dumb
stricken in years
stricken with amnesia
stricken with years
strickle bar
strict attention
strict construction
strict constructionism
strict constructionist
strict discipline
strict interpretation
strict law
strict minded
strict neutrality
strict settlement
strictly between us
strictly cash
strictly decreasing function
strictly increasing function
strictly speaking
stride-legged
strident-voiced
striding compass
striding level
strife-breeding
strife-healing
strife-stirring
strike a balance
strike a bargain
strike a blow
strike a light
strike a pose
strike a responsive chord
strike a rich vein
strike against
strike all of a heap
strike an attitude
strike at
strike at the root of
strike back
strike benefit
strike bill
strike blind
strike block
strike board
strike camp
strike dead
strike down
strike dumb
strike enforcer
strike fault
strike figure
strike fire
strike hands
strike hard
strike home
strike in
strike in with
strike insurance
strike it lucky
strike it rich
strike joint
strike knife
strike me dead
strike measure
strike mute
strike note
strike off
strike off the roll
strike off the rolls
strike oil
strike out
strike out at
strike out for
strike out for yourself
strike pan
strike pay
strike plane
strike plate
strike radar scanner
strike root
strike root in
strike shift
strike slip
strike tent
strike terror into
strike the death knell of
strike the eye
strike the first blow
strike the flag
strike the mind
strike through
strike up
strike up a friendship
strike up a tune
strike up the band
strike upon
strike valley
strike while the iron is hot
strike with awe
strike with wonder
strike you
strike you as
strike you right
strike your colors
strike your fancy
strike your flag
strike zone
strike-a-light
strike-anywhere match
strike-out
striker boat
striker of poses
striker plate
striker-out
striker-up
striking alteration
striking angle
striking bag
striking base
striking board
striking circle
striking distance
striking hammer
striking out
striking pin
striking plate
striking reed
striking resemblance
striking solution
striking stile
striking success
striking train
striking-out machine
strikingly like
string along
string along with
string alphabet
string band
string bass
string bead
string bean
string block
string choir
string correspondent
string course
string development
string diapason
string figure
string galvanometer
string instrument
string insulator
string lead
string leaf
string line
string musician
string orchestra
string organ
string out
string pea
string plate
string player
string pottery
string proof
string pump
string quartet
string section
string stop
string telephone
string tie
string together
string tone
string trio
string up
string-binding
string-colored
string-soled
string-tailed
string-toned
stringed instrument
stringer bar
stringer lode
stringer plate
stringer strake
stringing course
stringing out
stringy kelp
stringy sap
stringy-bark
stringybark pine
strinking-out
strip artist
strip away
strip bare
strip cartoon
strip clean
strip club
strip count
strip cropping
strip down
strip farm
strip farming
strip for action
strip lighting
strip line
strip map
strip method
strip mill
strip mine
strip mining
strip of office
strip of rank
strip off
strip out
strip pit
strip planting
strip poker
strip printing
strip survey
strip tease
strip template
strip to the buff
strip you of your illusions
strip-crop
strip-cropping
strip-teaser
stripe blight
stripe canker
stripe rust
stripe smut
striped bass
strong arm
strong as a horse
strong as a lion
strong as an ox
strong as brandy
strong as flesh and blood
strong as strong
strong belief
strong bid
strong breeze
strong derived set
strong drink
strong flair
strong gale
strong hand
strong in
strong interaction
strong language
strong man
strong market
strong meat
strong nerves
strong point
strong pull
strong relief
strong right hand
strong room
strong suit
strong water
strong waters
strong wind
strong-ankled
strong-arm
strong-arm man
strong-arm tactics
strong-armed
strong-armer
strong-backed
strong-bodied
strong-boned
strong-box
strong-breathed
strong-decked
strong-elbowed
strong-featured
strong-fibered
strong-fisted
strong-flavored
strong-handed
strong-headed
strong-jawed
strong-jointed
strong-limbed
strong-looking
strong-lunged
strong-man
strong-minded
strong-mindedly
strong-mindedness
strong-nerved
strong-pointed
strong-quartered
strong-ribbed
strong-scented
strong-seated
strong-set
strong-sided
strong-smelling
strong-stapled
strong-stomached
strong-tasted
strong-tasting
strong-tempered
strong-tested
strong-trunked
strong-voiced
strong-weak
strong-willed
strong-winged
strong-wristed
strongbox security
strontia digger
strontia process
strontian white
strontian yellow
strontium 90
strontium hydroxide
strontium monoxide
strontium nitrate
strontium oxide
strontium process
strontium salicylate
strontium unit
strontium white
strontium yellow
struck all of a heap
struck jury
struck measure
struck up
struck with
struck with surprise
structural botany
structural drag
structural engineer
structural engineering
structural fatigue
structural formula
structural gene
structural geology
structural grammar
structural iron
structural linguistics
structural meaning
structural mill
structural outline
structural polysaccharide
structural psychology
structural shop
structural steel
structural-steel
structure contours
struggle against
struggle for
struggle for existence
struggle up
struggle with
strung out
strung up
strut beam
strut your stuff
strutting piece
stub axle
stub feather
stub file
stub hoe
stub iron
stub mortise
stub nail
stub pen
stub short
stub shot
stub switch
stub tenon
stub tooth
stub track
stub twist
stub your toe
stub your toe upon
stub-bearded
stub-end
stub-end feeder
stub-pointed
stub-thatched
stub-toed
stub-wing stabilizer
stubble crop
stubble field
stubble goose
stubble mulch
stubble plow
stubble pulverizer
stubble quail
stubble rake
stubble shaver
stubble spurge
stubble-fed
stubble-loving
stubble-mulch farming
stubborn as a mule
stubborn fact
stubborn-chaste
stubborn-hard
stubborn-minded
stubborn-shafted
stubborn-stout
stubby-fingered
stucco pointer
stucco-adorned
stucco-fronted
stucco-molded
stucco-walled
stuck fast
stuck on
stuck on yourself
stuck-up
stuck-upness
stuck-upper
stuck-uppish
stuck-uppishness
stuck-uppy
stud block
stud bolt
stud book
stud box
stud chain
stud driver
stud fee
stud link
stud mating
stud poker
stud print
stud rivet
stud scab
stud screw
stud wall
stud wheel
stud-horse
stud-mare
stud-pink
stud-sail
studded tire
studding bolt
studding sail
studding-sail
studding-sail halyard bend
student adviser
student assistant
student council
student glider
student government
student hour
student lamp
student nurse
student pastor
student teacher
student teaching
student union
student volunteer
studhorse poker
studio apartment
studio couch
studio plant
study for
study group
study hall
study in still life
study to
study to be
study up
study up on
study with
study your part
study-bearing
study-bred
study-given
study-loving
study-racked
study-worn
stuff and nonsense
stuff chest
stuff engine
stuff gown
stuff hat
stuff in
stuff the mind
stuff the mind with
stuff up
stuff with knowledge
stuff yourself
stuff-chest
stuff-gownsman
stuff-over
stuffed cabbage
stuffed derma
stuffed eggs
stuffed grape leaves
stuffed peppers
stuffed shirt
stuffed to the gills
stuffed tomatoes
stuffed up
stuffed-over
stuffing and stripping
stuffing box
stuffing nut
stuffing-box recess
stuffy weather
stultify yourself
stumble on
stumble upon
stumbling block
stumbling stone
stumbling-block
stump bed
stump burning
stump da
stump excursion
stump extractor
stupid-acting
stupid-headed
stupid-honest
stupid-looking
stupid-sure
stuporous melancholia
stuporous with boredom
sturdy as an ox
sturdy-chested
sturdy-legged
sturdy-limbed
sturm und drang
styl-
style branch
style galant
style of writing
style pen
style sheet
style the hair
style-conscious
style-consciousness
styles of
stylistic analysis
stylo-
stylograph pen
stylographic pen
styloid process
styour throw
styptic pencil
styralyl acetate
styrene resin
suan pan
suarrow nut
suave-looking
suave-mannered
suave-spoken
sub arid
sub for
sub judice
sub post office
sub rosa
sub specie aeternitatis
sub verbo
sub voce
sub-
sub-Andean
sub-Atlantic
sub-Carpathian
submarine sentry
submarine telegraphy
submarine tender
submarine torpedo
submarine warfare
submaxillary gland
submerged coast
submerged in
submerged mind
submerged-tube boiler
subminiature camera
submit to
submit to indignity
submit with a good grace
suboctave coupler
subordinate clause
subordinate conjunction
subordinate ordinary
subordinate role
subordinate to
subordinate yourself
subordinating conjunction
subornation of perjury
subpoena ad testificandum
subpoena duces tecum
subscribe to
subscriber trunk dialling
subscription book
subscription concert
subscription edition
subscription library
subscription list
subscription television
subsequent to
subsidiary coin
subsidiary company
subsidiary sense
subsidy citizen
subsidy man
subsist in
subsistence agriculture
subsistence allowance
subsistence department
subsistence farming
subsistence level
subsistence money
subsistence stores
subsistent form
subtle-thoughted
subtle-tongued
subtle-witted
subtraction logarithm
subtraction mark
subtraction sign
subtractive color
subtractive primary
subtractive process
subtropical anticyclone
subtropical high
suburban market
subvalent electrons
subzero weather
succade gourd
succeed in
succeed to
succeed to the throne
succeed with
succes d'estime
succes de scandale
success fou
success story
successful advocate
successful defender
successful person
succession duty
succession of ideas
succession of thought
succession of time
succession state
succin-
succinic acid
succino-
succory blue
succumb to
such and such
such as
such being the case
such stuff as dreams are made on
such stuff as dreams are made on
such-and-such
such-like
suck dry
suck fly
suck in
suck into
suck off
suck out
suck the blood from
suck the blood of
suck up
suck up to
suck your blood
suck your breath
suck your wind
suck-
suck-bottle
suck-egg
suck-in
sucked dry
sucked into
sucker bait
sucker foot
sucker for
sucker list
sucker rod
sucket fork
sucking louse
sucking pig
sucking-fish
sucking-pig
sucking-pump
suckling pig
sucro-
suction anemometer
suction chamber
suction cleaner
suction cup
suction dredge
suction flask
suction hose
suction machine
suction pipe
suction primer
suction producer
suction pump
suction root
suction stop
suction stroke
suction sweeper
suction valve
sudan grass
sudden and quick in quarrel
sudden attack
sudden change
sudden death
sudden development
sudden impulse
sudden infant death syndrome
sudden or radical change
sudden pull
sudden thought
sudden turn
sudden-beaming
sudden-starting
sudden-whelming
sue at law
sue for
sue for divorce
sue out
sue to
suede cloth
suede gloves
suet pudding
suet refiner
suffer a misfortune
suffer an eclipse
suffer anguish
suffer for
suffer hanging
suffer hearing impairment
suffer hearing loss
suffer loss
suffer pain
suffer pangs of jealousy
suffer the consequences
suffer the penalty
sufferance wharf
suffering angst
suffering dread
suffering from amnesia
suffering nausea
suffice to yourself
sufficient condition
sufficient for
sufficient to
sufficient unto
suffused with light
sugar almond
sugar ant
sugar apple
sugar ash
sugar bag
sugar refinery
sugar refining
sugar shell
sugar sifter
sugar sorghum
sugar spoon
sugar squirrel
sugar tongs
sugar tree
sugar vinegar
sugar wrack
sugar-baker
sugar-beet webworm
sugar-bird
sugar-boiling
sugar-bush
sugar-candy
sugar-cane
sugar-cane beetle
sugar-cane borer
sugar-cane gummosis
sugar-cane mosaic
sugar-cane root disease
sugar-cane smut
sugar-chopped
sugar-chopper
sugar-coat
sugar-coated
sugar-coating
sugar-colored
sugar-cured
sugar-destroying
sugar-growing
sugar-laden
sugar-lipped
sugar-loaded
sugar-loaf
sugar-loafed
sugar-loving
sugar-making
sugar-maple
sugar-maple borer
sugar-mouthed
sugar-plum
sugar-producing
sugar-sop
sugar-sweet
sugar-teat
sugar-tit
sugar-topped
sugar-water
sugar-yielding
sugared almond
sugarhouse molasses
sugaring off
suggest itself
suggest the earmarks of
suggestio falsi
suggestion therapy
suggestive of
sui generis
sui juris
suicidal despair
suicide clause
suicide club
suicide pact
suicide pilot
suicide plane
suicide squeeze
suicide squeeze play
suit and service
suit at law
suit case
suit court
suit down to the ground
suit in law
suit of armor
suit of clothes
suit service
suit the action to the word
suit the occasion
suit the season
suit the time
suit yourself
suit-dress
suitable for
suitable occasion
suitable time
suite of dances
suite of rooms
sujeeq-muqee
suji-muji
sulcato-
sulf-
sulfa drug
sulfa drugs
sulfanilic acid
sulfanilyl radical
sulfate paper
sulfate process
sulfate pulp
sulfide dye
sulfinyl group
sulfinyl radical
sulfite paper
sulfite process
sulfite pulp
sulfo group
sulfo radical
sulfon-
sulfonic acid
sulfonyl chloride
sulfur black
sulfur butterfly
sulfur dioxide
sulfur dye
sulfur trioxide
sulfur-bottom
sulfur-bottom whale
sulfur-colored
sulfur-flower
sulfur-yellow
sulfurated potash
sulfureted hydrogen
sulfuric acid
sulfuric anhydride
sulfuric ether
sulfurous acid
sulfurted potash
sulfuryl chloride
sulfuryl group
sulfuryl radical
sulky lister
sulky plow
sulky-shaped
sulla clover
sullage head
sullen looks
sullen rabies
sullen-browed
sullen-eyed
sullen-looking
sullen-natured
sullen-seeming
sullen-sour
sullen-visaged
sullen-wise
sulph-
sulpha drug
sulphanilic acid
sulphate green
sulphate paper
sulphate process
sulphate pulp
sulphate ultramarine
sulphato-
sulphide color
sulphide dye
sulphide toning
sulphindigotic acid
sulphine color
sulphine yellow
sulphite brown
sulphite pulp
sulpho salt
sulpho-
sulpho-acid
sulpho-salt
sulphocarbon oil
sulphon cyanine
sulphon cyanine black
sulphonic acid
sulphonium compound
sulphur acid
sulphur alcohol
sulphur bacteria
sulphur black
sulphur butterfly
sulphur candle
sulphur chloride
sulphur color
sulphur dioxide
sulphur dye
sulphur ether
sulphur family
sulphur granule
sulphur lime
sulphur match
sulphur monochloride
sulphur oil
sulphur olive oil
sulphur ore
sulphur paste
sulphur plant
sulphur rain
sulphur rose
sulphur shower
sulphur subchloride
sulphur toning
sulphur trioxide
sulphur vivum
sulphur water
sulphur whale
sulphur yellow
sulphur-bearing
sulphur-bellied
sulphur-bottom
sulphur-bottom whale
sulphur-breasted
sulphur-colored
sulphur-containing
sulphur-crested
sulphur-flower
sulphur-hued
sulphur-impregnated
sulphur-scented
sulphur-smoking
sulphur-tinted
sulphur-tipped
sulphureo-
sulphureo-aerial
sulphuretted hydrogen
sulphuric acid
sulphurous acid
sultan flower
sultan red
sultana bird
sultana roll
sultry weather
sum and substance
sum of money
sum of things
sum to
sum total
sum und substance
sum up
sum up your case
sum-total
sum-up
sumac family
sumac wax
summa cum laude
summary court-martial
summary judgment
summary justice
summary negative
summary offence
summary proceeding
summation curve
summation method
summation tone
summer aster
summer barley
summer camp
summer cholera
summer complaint
summer coot
summer crookneck
summer cypress
summer day
summer dew grass
summer diarrhea
summer disease
summer duck
summer egg
summer ermine
summer fallow
summer finch
summer flounder
summer forest
summer grape
summer hail
summer haw
summer heat
summer heliotrope
summer herring
summer house
summer hyacinth
summer kitchen
summer lightning
summer lilac
summer oil
summer parlor
summer pudding
summer queening
summer rape
summer rash
summer redbird
summer resort
summer sausage
summer savory
summer school
summer sheldrake
summer snipe
summer snowflake
summer soldier
summer solstice
summer sore
summer spore
summer squash
summer stock
summer stone
summer suit
summer sweet
summer tanager
summer teal
summer theater
summer time
summer tree
summer truffle
summer wagtail
summer warbler
summer wheat
summer yellowbird
summer yellowlegs
summer's day
summer-bird
summer-blanching
summer-breathing
summer-brewed
summer-bright
summer-cloud
summer-dried
summer-fallow
summer-fed
summer-felled
summer-flowering
summer-grazed
summer-house
summer-leaping
summer-like
summer-lived
summer-loving
summer-made
summer-ripening
summer-seeming
summer-shrunk
summer-staying
summer-stir
summer-stricken
summer-sweet
summer-swelling
summer-threshed
summer-tide
summer-tilled
summer-time
summer-up
summer-weight
summing register
summing up
summing-up
summit canal
summit conference
summit level
summit yard
summit-level canal
summon forth
summon spirits
summon up
summon up courage
summons case
summons of death
summons-proof
summum bonum
summum genus
summum jus
sump cut
sump fuse
sump pit
sump pump
sump shot
sump winze
sumping cut
sumping shot
sumpter horse
sumpter mule
sumptuary law
sumptuary laws
sumptuary ordinances
sums total
sun animalcule
sun arc
sun bark
sun bath
sun bather
sun bear
sun bittern
sun blind
sun blindness
sun burner
sun clock
sun compass
sun crack
sun cult
sun cure
sun dance
sun date
sun deck
sun disc
sun disk
sun dog
sun fern
sun fever
sun flag
sun fruit
sun gall
sun gear
sun gem
sun god
sun gods
sun grass
sun grebe
sun hat
sun helmet
sun hemp
sun in glory
sun in splendor
sun lamp
sun letter
sun letters
sun lounge
sun moss
sun pan
sun parlor
sun perch
sun picture
sun pillar
sun plane
sun plant
sun porch
sun power
sun print
sun printing
sun rose
sun shower
sun side
sun snake
sun spark
sun spider
sun spot
sun spurge
sun star
sun suit
sun tan
sun temperature
sun time
sun trap
sun tree
sun trout
sun valve
sun view
sun visor
sun watch
sun wheel
sun worship
sun worshiper
sun worshiping
sun yourself
sun-affronting
sun-arrayed
sun-awakened
sun-baked
sun-bathe
sun-bathed
sun-beat
sun-beaten
sun-begotten
sun-blackened
sun-blanch
sun-blind
sun-blistened
sun-blower
sun-born
sun-bred
sun-bright
sun-bringing
sun-broad
sun-bronzed
sun-brown
sun-browned
sun-clear
sun-confronting
sun-courting
sun-cracked
sun-crowned
sun-cure
sun-cured
sun-dazzling
sun-delighting
sun-descended
sun-dial
sun-drawn
sun-dried
sun-dry
sun-eclipsing
sun-excluding
sun-expelling
sun-exposed
sun-eyed
sun-faced
sun-feathered
sun-filled
sun-fish
sun-flagged
sun-flaring
sun-flooded
sun-fringed
sun-gazed
sun-gazing
sun-gilt
sun-god
sun-graced
sun-graze
sun-grazer
sun-grebe
sun-grown
sun-heated
sun-illumined
sun-kissed
sun-loved
sun-loving
sun-made
sun-marked
sun-melted
sun-nursed
sun-outshining
sun-pain
sun-painted
sun-paled
sun-praising
sun-printed
sun-projected
sun-ray
sun-red
sun-resembling
sun-scorched
sun-scorching
sun-shading
sun-shot
sun-shunning
sun-sodden
sun-specs
sun-spot
sun-staining
sun-steeped
sun-struck
sun-swart
sun-swept
sun-tanned
sun-tight
sun-up
sun-warm
sun-warmed
sun-withered
sunburst plaiting
sunburst pleats
sunday punch
sunday school
sunday-go-to-meeting
sunday-school
sunder tree
sundew family
sundra tree
sundry shop
sundry-colored
sundry-patterned
sundry-shaped
sunflower chest
sunflower oil
sunflower oil cake
sunflower tree
sunflower yellow
sung mass
sunk fence
sunk garden
sunk in iniquity
sunk in oblivion
sunk key
sunk relief
sunken garden
sunken part
sunken place
sunlight burner
sunn hemp
sunny side
sunny weather
sunny-clear
sunny-colored
sunny-faced
sunny-haired
sunny-looking
sunny-natured
sunny-red
sunny-side up
sunny-spirited
sunny-sweet
sunny-warm
sunray pleats
sunrise service
sunrise wall
sunrise watch
sunset brown
sunset clam
sunset glow
sunset gun
sunset of your days
sunset shell
sunset wall
sunset-blue
sunset-flushed
sunset-lighted
sunset-purpled
sunset-red
sunset-ripened
sunshine roof
sunshine-showery
sunshiny weather
sunspot cycle
sunspot numbers
sunspot period
sunspot zone
sunt tree
suo jure
suo loco
sup off
sup up
super cool
super royal
super royal octavo
super royal quarto
super-
super-acid
super-cooling
super-decompound
super-duper
super-pumper
super-royal
super-smooth
super-tanker
supercharged engine
supercilious superior
supercompression engine
superdense theory
superficial extension
superficial soundness
superficially sound
supergiant star
superheated air
superheterodyne circuit
superheterodyne receiver
superhigh frequency
superintendent engineer
superintendent general
superior conjunction
superior court
superior courts of Westminster
superior general
superior goods
superior planet
superior-general
superiority complex
superiors general
superiors-general
supernatural being
supernatural virtue
supernatural virtues
supernatural, the
supero-
supero-occipital
superposition principle
supersonic aerodynamics
supersonic combat plane
support yourself
supporting actor
supporting cast
supporting character
supporting distance
supporting evidence
supporting instrumentalist
supporting player
supporting role
supporting treatment
supportive relationship
supportive therapy
supposing that
suppressed desire
suppressio veri
suppressor grid
suppurative arthritis
suppurative inflammation
supra-
supra-abdominal
supra-acromial
supra-aerial
supra-anal
supra-angular
supra-arytenoid
supra-auditory
supra-auricular
supra-axillary
supra-esophageal
supra-ethmoid
supra-intestinal
supracardinal vein
supralinear punctuation
supranational government
suprapartisan leadership
suprarational automatism
suprarational automatist
suprarenal gland
suprasegmental phoneme
suprasternal notch
supratrochlear nerve
supreme being
supreme commander
supreme court
supreme principle
supreme principle of pure reason
supreme sacrifice
supreme sauce
supreme soul
sur le tapis
sur-
sur-royal
suranal plate
surbased arch
surdo-mute
sure as can be
sure as death
sure as death and taxes
sure as fate
sure as hell
sure as shooting
sure as the devil
sure bet
sure card
sure crop
sure enough
sure loser
sure of yourself
sure sign
sure success
sure thing
sure winner
sure-aimed
sure-enough
sure-fire
sure-footed
sure-footedly
sure-footedness
sure-founded
sure-grounded
sure-nosed
sure-presaging
sure-refuged
sure-seeing
sure-set
sure-settled
sure-slow
sure-steeled
surest thing you know
surety bond
surf bum
surf caster
surf casting
surf clam
surf coot
surf duck
surf fish
surf line
surf plant
surf scoter
surf shiner
surf smelt
surf snipe
surf whiting
surf-battered
surf-beaten
surf-bound
surf-riding
surf-showered
surf-sunk
surf-swept
surf-tormented
surf-vexed
surf-washed
surf-wasted
surf-white
surf-worn
surface analyzer
surface anatomy
surface appearance
surface board
surface boundary layer
surface carburetor
surface card
surface color
surface condenser
surface cooler
surface density
surface energy
surface extension
surface fire
surface friction
surface friction drag
surface gauge
surface gravity
surface integral
surface layer
surface mail
surface measure
surface microscope
surface noise
surface of light and shade
surface of revolution
surgeon apothecary
surgeon bird
surgeon commander
surgeon dentist
surgeon general
surgeon major
surgeon's knot
surgeon's saw
surgeons general
surgical anatomy
surgical boot
surgical dentistry
surgical diathermy
surgical hospital
surgical instrument
surgical intervention
surgical knife
surgical measure
surgical needle
surgical nurse
surgical operation
surgical shock
surgical spirit
surgical technique
surgical treatment
surmounted arch
surplice fee
surplus state
surplus value
surplus- age
surprise attack
surprise ending
surprise package
surprise party
surrealist tachism
surrealist tachist
surrender charge
surrender one's colors
surrender value
surrender your life
surround verge
sursum corda
surveillance radar
survey course
surveying sextant
surveyor general
surveyor's arrow
surveyor's chain
surveyor's compass
surveyor's dial
surveyor's level
surveyor's measure
survival of the fittest
survival rate
survival value
survive or perish
survivorship annuity
sus per coll
susceptible to
suspective to
suspend judgment
suspend operations
suspended animation
suspended cadence
suspended sentence
suspender belt
suspende account
suspense drama
suspense ledger
suspense story
suspension bridge
suspension colloid
suspension insulator
suspension of civil rights
suspension of disbelief
suspension of hostilities
suspension periods
suspension point
suspension points
suspensive veto
suspensory ligament
suspensory veto
suspicion-proof
sussex spaniel
sustain a part
sustain someone's side
sustained action
sustained activity
sustained note
sustaining pedal
sustaining program
sustentation fund
suture needle
suum cuique
suwarrow nut
svarabhakti vowel
swab stick
swaddling bands
swaddling clothes
swaddling-band
swaddling-clothes
swaddling-clouts
swag belly
swag-bellied
swage block
swage bolt
swage-set
swagger coat
swagger stick
swagger-
swago bass
swallow an insult
swallow anything
swallow dive
swallow fish
swallow flycatcher
swallow hawk
swallow hole
swallow hook
swallow it
swallow plover
swallow roller
swallow shrike
swallow stone
swallow the bitter pill
swallow the pill
swallow thorn
swallow up
swallow warbler
swallow whole
swallow your dust
swallow your pride
swallow your words
swallow-fork
swallow-hole
swallow-tail
swallow-tailed
swallow-tailed coat
swallow-tailed kite
swallow-wing
swami house
swamp andromeda
swamp angel
swamp apple
swamp ash
swamp azalea
swamp bay
swamp beggar-tick
swamp birch
swamp black gum
swamp blackberry
swamp blackbird
swamp blueberry
swamp boat
swamp brake
swamp broom
swamp buggy
swamp buttercup
swamp buttonwood
swamp cabbage
swamp cedar
swamp chess
swamp chestnut oak
swamp cottonwood
swamp crake
swamp cypress
swamp deer
swamp dewberry
swamp dock
swamp dogwood
swamp elm
swamp evergreen
swamp fern
swamp fever
swamp globeflower
swamp gooseberry
swamp grape
swamp gum
swamp hare
swamp harrier
swamp hawk
swamp hellebore
swamp hen
swamp hickory
swamp holly
swamp honeysuckle
swamp hook
swamp hornbeam
swamp itch
swamp laurel
swamp lily
swamp locust
swamp loosestrife
swamp lover
swamp magnolia
swamp mahogany
swamp mallow
swamp maple
swamp milkweed
swamp moss
swamp oak
swamp ore
swamp owl
swamp partridge
swamp pheasant
swamp pine
swamp pink
swamp poplar
swamp post oak
swamp potato
swamp privet
swamp quail
swamp rabbit
swamp red bay
swamp robin
swamp rose
swamp rose mallow
swamp sassafras
swamp saxifrage
swamp silkweed
swamp sparrow
swamp spleenwort
swamp spruce
swamp squawweed
swamp sumac
swamp sunflower
swamp tea
swamp thistle
swamp tickseed
swamp tupelo
swamp turnip
swamp warbler
swamp white cedar
swamp white oak
swamp willow
swamp willow herb
swamp wire grass
swamp-dwelling
swamp-growing
swamp-loving
swarm cell
swarm over
swarm spore
swarm up
swarm with
swart star
swartkranz ape-man
swash bulkhead
swash channel
swash letter
swash plate
swathing band
swathing clothes
sway bar
sway boat
sway brace
sway bracing
sway pole
sway-
sway-back
sway-backed
swear and affirm
swear at
swear by
swear by bell
swear falsely
swear in
swear like a sailor
swear like a trooper
swear off
swear on the Bible
swear out
swear the truth
swear to
swear to God
swear to a belief
swear to goodness
swear-word
swearer-in
swearing off
sweat and slave
sweat and stew
sweat bath
sweat bee
sweat blood
sweat gland
sweat it
sweat it out
sweat leather
sweat like a horse
sweat like a trooper
sweat lodge
sweat of your brow
sweat off
sweat out
sweat over
sweat pad
sweat pants
sweat room
sweat shirt
sweat shop
sweat socks
sweat stock
sweat suit
sweat-house
sweater girl
sweater shop
sweating iron
sweating sickness
sweating stock
sweating system
sweating-sickness
swede turnip
swedish massage
swedish movements
swedish turnip
swee-swee
swee-sweet
sweep along
sweep aside all obstacles
sweep away
sweep check
sweep generator
sweep hand
sweep head
sweep mill
sweep net
sweep of time
sweep off your feet
sweep out
sweep plate
sweep point
sweep rake
sweep seine
sweep seining
sweep smelter
sweet nothings
sweet oil
sweet oleander
sweet on
sweet orange
sweet patootie
sweet pea
sweet pepper
sweet pepper bush
sweet pepperbush
sweet pitahaya
sweet potato
sweet reason
sweet reasonableness
sweet reed
sweet reed grass
sweet revenge
sweet savor
sweet scabious
sweet shop
sweet singer
sweet sixteen
sweet sleep
sweet smell
sweet sorghum
sweet spire
sweet spirit of nitre
sweet stand
sweet stuff
sweet sucker
sweet sultan
sweet talk
sweet talker
sweet temper
sweet tongue
sweet tooth
sweet upon
sweet vernal grass
sweet viburnum
sweet water
sweet william
sweet william catchfly
sweet wine
sweet woodruff
sweet words
sweet wormwood
sweet-almond
sweet-almond oil
sweet-and-sour
sweet-and-sour sauce
sweet-beamed
sweet-bitter
sweet-bleeding
sweet-blooded
sweet-breath
sweet-breathed
sweet-breathing
sweet-brier
sweet-bright
sweet-charming
sweet-chaste
sweet-complaining
sweet-conditioned
sweet-corn wilt
sweet-curd
sweet-dispositioned
sweet-eyed
sweet-faced
sweet-featured
sweet-field
sweet-flavored
sweet-flowered
sweet-flowing
sweet-gale
sweet-leafed
sweet-lipped
sweet-looking
sweet-minded
sweet-murmuring
sweet-natured
sweet-numbered
sweet-orange oil
sweet-pea streak
sweet-pickle
sweet-piercing
sweet-potato beetle
sweet-potato borer
sweet-potato scurf
sweet-potato sphinx
sweet-potato weevil
sweet-potato worm
sweet-recording
sweet-roasted
sweet-sacred
sweet-sad
sweet-savored
sweet-scented
sweet-seasoned
sweet-set
sweet-shaped
sweet-singing
sweet-smelled
sweet-smelling
sweet-smiling
sweet-sop
sweet-souled
sweet-sounded
sweet-sounding
sweet-sour
sweet-spoken
sweet-spun
sweet-suggesting
sweet-sweet
sweet-talk
sweet-talking
sweet-tasted
sweet-tasting
sweet-tempered
sweet-temperedly
sweet-temperedness
sweet-throat
sweet-throated
sweet-toned
sweet-tongued
sweet-toothed
sweet-touched
sweet-tulk
sweet-tuned
sweet-voiced
sweet-warbling
sweet-whispered
sweet-william
sweet-wort
sweeten the kitty
sweetheart agreement
sweetheart contract
sweetheart neckline
sweetie pie
sweetleaf family
sweetness and light
sweetness of life
sweetness und light
sweets candy
swift-foot
swift-footed
swift-frightful
swift-glancing
swift-gliding
swift-handed
swift-heeled
swift-hoofed
swift-judging
swift-lamented
swift-marching
swift-paced
swift-posting
swift-recurring
swift-revenging
swift-running
swift-rushing
swift-seeing
swift-sliding
swift-slow
swift-spoken
swift-starting
swift-stealing
swift-streamed
swift-swimming
swift-tongued
swift-winged
swiftering line
swill down
swill up
swill-bowl
swill-tub
swim against the current
swim bladder
swim bow
swim fin
swim fins
swim in
swim mask
swim suit
swim upstream
swim with the current
swim with the stream
swim with the tide
swim-bladder
swimmer's itch
swimming bath
swimming bell

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swimming bladder
swimming costume
swimming crab
swimming eyes
swimming funnel
swimming hole
swimming of the head
swimming plate
swimming pool
swimming suit
swimming tank
swimming trunks
swimming upstream
swindle sheet
swine back
swine cress
swine dysentery
swine erysipelas
swine fever
swine flu
swine grass
swine itch
swine plague
swine pox
swine thistle
swine vesicular disease
swine's feather
swine-backed
swine-bread
swine-chopped
swine-cote
swine-eating
swine-faced
swine-headed
swine-mouthed
swine-pipe
swine-pox
swine-snouted
swine-stead
swine-stone
swine-sty
swing arm
swing at
swing back
swing band
swing bar
swing beam
swing boat
swing bolster
swing bolt
swing bridge
swing cart
swing chair
swing district
swing door
swing drawbridge
swing from one thing to another
swing gate
swing hammer crusher
swing in with
swing jack
swing joint
swing knife
swing leg
swing music
swing musician
swing on
swing open
swing plate
swing plow
swing round
swing round the circle
swing saw
swing shift
swing shifter
swing team
swing the deal
swing the stern
swing tool
swing toward
swing train
swing vote
swing wheel
swing-
swing-jointed
swing-swang
swing-tree
swing-wing
swinging bar
swinging basin
swinging boom
swinging both ways
swinging buoy
swinging compass
swinging door
swinging post
swinging ring
swinging toward
swinging voter
swingle staff
swingle tow
swingle-
swingleing tow
swinish gluttony
swinish multitude
swipe at
swirl bob
swirl the senses
swish tail
swish-
swish-swash
swiss muslin
swiss roll
swiss steak
switch box
switch cane
switch cast
switch engine
switch grass
switch hitter
switch hook
switch knife
switch line
switch off
switch off the light
switch on
switch on the light
switch over
switch plant
switch plate
switch plug
switch rail
switch sorrel
switch stand
switch tail
switch tender
switch tenter
switch tower
switch yard
switch-hit
switch-hitter
switch-hitting
switch-horn
switch-over
switchblade knife
switchboard operator
switching circuit
switching eye
swivel block
swivel bridge
swivel chain
swivel chair
swivel eyes
swivel fabric
swivel gun
swivel hook
swivel jaw
swivel musket
swivel pin
swivel pipe
swivel plow
swivel shuttle
swivel silk
swivel spindle
swivel table
swivel union
swivel vise
swivel weaving
swivel-eyed
swivel-hooked
swivel-lock
swizzle stick
swollen belly
swollen diction
swollen head
swollen phrase
swollen with pride
swollen-cheeked
swollen-eyed
swollen-faced
swollen-glowing
swollen-headed
swollen-jawed
swollen-tongued
swooning-ripe
swoop down
swoop down on
swoop down upon
sword arm
sword bayonet
sword bean
sword belt
sworn off
sworn statement
sworn testimony
sworn to
swot up
swung dash
sycamore anthracnose
sycamore fig
sycamore maple
sycee silver
syenite-porphyry
syenitic gneiss
syllabic accent
syllabic character
syllabic meter
syllabic nucleus
syllabic peak
syllabic symbol
syllable name
syllogistic reasoning
sylvan deity
sylvic acid
sym-
symbol-using animal
symbolic books
symbolic code
symbolic language
symbolic logic
symbolic meaning
symbolic system
symbolical books
symbolist movement
symbolist verse
symbols of
symmetric difference
symmetric function
symmetric group
symmetric matrix
symmetric polynomial
symmetry axis of rotation
symmetry class
symmetry element
symmetry plane
sympathetic chord
sympathetic contact
sympathetic ink
sympathetic introspection
sympathetic ma
sympathetic magic
sympathetic nervous system
sympathetic ophthalmia
sympathetic response
sympathetic strike
sympathetic string
sympathetic vibration
sympathize with
sympathy strike
symphonic conductor
symphonic form
symphonic music
symphonic ode
symphonic poem
symphonie concertante
symphony band
symphony concert
symphony orchestra
symphyo-
symphysio-
symptom complex
symptomatic anthrax
symptomatic treatment
syn-
synaposematic mimicry
sync-generator
synchro receiver
synchro transmitter
synchro unit
synchro-
synchro-cyclotron
synchronic linguistics
synchronized shifting
synchronizing generator
synchronizing pulse
synchronizing separator
synchronizing signal
synchronous converter
synchronous machine
synchronous motor
synchronous orbit
synchrotron radiation
syncopated music
syncro-mesh
syndesmo-
synecics group
synneusis texture
synodic month
synonym dictionary
syntactic analysis
syntactic construction
syntactic meaning
syntactic structure
syntax language
syntactic magma
synthesis gas
synthetic cloth
synthetic detergent
synthetic division
synthetic dye
synthetic fabric
synthetic geometry
synthetic lacquer
synthetic philosophy
synthetic plasma
synthetic resin
synthetic rubber
synthetic textile
syntonic personality
syphil-
syphilitic arthritis
syphilitic meningencephalitis
syphilitic paresis
syphilo-
syringo-
syro-
syrphid fly
syrphus fly
syrup of ipecac
system component
system components
system engineer
system engineering
system function
system of belief
system of beliefs
system of government
system of ideas
system of knowledge
system of oral communication
system of theories
system of values
system of weight
system stabilization
systematic amnesia
systematic botany
table-hop
table-hopped
table-hopper
table-hopping
table-land
table-mountain pine
table-rapping
table-shaped
table-spoon
table-stone
table-tail
table-talk
table-topped
table-turning
tableau curtain
tableau vivant
tableaux vivants	
tabled joint
tablet chair
tablet letter
tablet tea
tablet triturate	
tablets of the memory
taboo language
taboo word
tabor pipe
tabs of
tabs on	
tabucki grass	
tabula rasa
tabular iceberg	
tacca arrowroot
tacheo-
tachina fly	
tacho-
tachy case	
tachy-
tacit consent		
tack bend
tack board
tack bumpkin
tack comb
tack down wind	
tack duty
tack hammer
tack line
tack on
tack pin
tack rivet
tack room
tack together
tack up
tack weld
tack welder
tack welding
tacketing gut
tacking needle
tackle block
tackle board
tackle fall
tackle house
tackle post	
tackles back formation
tacky party
tacnode Rare	
tactical air force
tactical bombing
tactical evolutions
tactical maneuvers
tactical nuclear weapons
tactical plan
tactical police
tactical unit
tacticalsupport bomber	
tactile amnesia
tactile cell
tactile corpuscle
tactile hair
tactile organ
tactile process
tactile sense
tadpole fish	
tadpole-shaped
tae-kwan-do	
taedium vitae
taenii-
taenio-
taffeta weave
taffrail log
taffy pull
tag addresser
tag after
tag alder
tag along
tag and rag
tag boat
tag dance
tag day
tag end
tag line
tag on
tag up
tag, rag, and bobtail
tag-addressing
tag-affixing
tag-dating
tag-marking
tag-rag
tag-stringing
tagged atom
tagged element
tagmemic analysis
tagrag and bobtail
tai-ping
tail barley
tail bay
tail beam
tail block
tail boom
tail coat
tail cone
tail covert
tail end
tail fan
tail fin
tail fly
tail force
tail gate
tail grab
tail grape
tail group
tail gunner
tail hook
tail house
tail in a gate
tail joist
tail lamp
tail lock
tail off
tail pipe
tail pit
tail plane
tail print
tail rhyme
tail rod
tail rope
tail rotor
tail set
tail shaft
tail skid
tail slide
tail spin
tail spindle
tail stinger
tail tackle
tail unit
tail water
tail wheel
tail wind
tail-board
tail-chasing
tail-cropped
tail-decorated
tail-docked
tail-end
tail-glide
tail-heavy
tail-high landing
tail-joined
tail-low landing
tail-piece
tail-pipe burner
tail-race
tail-rhymed
tail-rope
tail-switching
tail-tied
tail-wagging
tailed frog
tailed sonnet
tailed toad
tailings auger
taille-douce
tailess airplane
tailless jet	
tailor warbler
tailor's chalk
tailor's-tack
tailor-bird
tailor-built
tailor-cut
tailor-legged
tailor-made
tailor-mades
tailor-make
tailor-making
tailor-suited
tailored suit
taint-free
taint-worm
taintor gate
tais toi
take French leave
take a Sunday drive
take a back seat
take a bow
take a break
take a call
take a careful look
take a chance
take a close look
take a course
take a crack at
take a crap
take a cursory view of
take a dare
take a decision
take a dim view of
take a dislike to
take a dive
take a drop
take a drop too much
take a fall
take a fancy to
take a favorable turn
take a flier
take a flight
take a fling at
take a flop
take a fresh lease on life
take a further look
take a gamble on
take a glance at
take a hand
take a hand in
take a header
take a heading
take a holiday
take a journey
take a joyride
take a leaf out of
take a leaf out of your book
take a leap in the dark
take a leave of absence
take a liberty
take a likeness
take a liking to
take a lively interest
take a long
take a look at
take a nap
take a new lease on life
take a part
take a peek
take a peep
take a percentage
take a photograph
take a picture
take a poke at
take a pop at
take a potshot
take a powder
take a pratfall
take a premium
take a prompt
take a random sample
take a rap
take a reading
take a recess
take a reef
take a resolution
take a rest
take a rubbing
take a runout powder
take a second look
take a set
take a shine to
take a shit
take a short cut
take a shot at
take a shy at
take a sight
take a spill
take a squint at
take a stand
take a straw vote
take a stretch
take a swing at
take a swipe at
take a trip
take a tumble
take a turn
take a turn for the better
take a voyage
take a walk
take a whack at
take a whiff of
take a wrong turn
take a wrong turning
take aback
take account of
take action
take advantage of
take advice
take after
take aim
take aim at
take alarm
take all of
take amiss
take an active part in
take an approach to
take an assumed name
take an attitude
take an aversion to
take an interest
take an interest in
take an overdose
take and do
take another look
take apart
take arms
take as a matter of course
take as a model
take as a precondition
take as a reason
take as an excuse
take as an occasion
take as demonstrated
take as gospel truth
take as proved
take aside
take at face value
take at your word
take away
take away from
take away your breath
take back
take bearings
take before the judge
take birth
take by assault
take by storm
take by surprise
take by the beard
take by the button
take by the hand
take by the lapel
take by the throat
take captive
take care
take care of
take care of number one
take center stage
take chances
take charge
take charge of
take charge of your destiny
take cognizance of
take cold
take comfort
take command
take counsel
take counsel of your pillow
take counsel with
take courage
take cover
take cover under
take credit
take dead aim at
take delight in
take doing
take down
take down a peg
take down a peg or two
take down in shorthand
take effect
take exception
take exception to
take fire
take five
take flight
take for
take for a ride
take for a sucker
take for better or for worse
take for gospel
take for granted
take for your own
take for yourself
take form
take forty winks
take fright
take from
take good care
take great satisfaction
take heart
take heart of grace
take heed
take heed at your peril
take heed of
take hold
take hold of
take hold of one
take hold of you
take holy orders
take horse
take ill
take in
take in a reef
take in bad part
take in exchange
take in good part
take in hand
take in sail
take in the sights
take in tow
take in vain
take in your stride
take into account
take into camp
take into consideration
take into custody
take into employment
take into your head
take into your service
take issue
take issue with
take it
take it all
take it as given
take it easy
take it in your stride
take it into your head
take it like a man
take it lying down
take it on the chin
take it on the lam
take it or leave it
take it out of
take it out of your hide
take it out of your skin
take it out on
take it that
take its place
take its rise
take its rise from
take kindly to
take leave
take leave of
take leave of your senses
take legal proceedings against
take lessons
take liberties
take liberties with
take life
take life easy
take line
take lying down
take measures
take medicine
take merit to yourself
take narrow views
take no account of
take no denial
take no interest in
take no note of
take no notice of
take no part in
take no stock in
take no thought of
take no thought of the morrow
take no thought of tomorrow
take note
take note of
take notice
take notice of
take nourishment
take oath
take off
take off a high
take off after
take off for
take off on
take off weight
take off your hands
take off your hat to
take off your shoes
take offense
take office
take on
take on credit
take on faith
take on over
take on trust
take on weight
take on yourself
take one over
take one step at a time
take one's breath away
take one's life
take order
take orders
take origin
take out
take out after
take out from under wraps
take out insurance
take out membership
take out of mothballs
take out on
take over
take over for
take pains
take part in
take part with
take pen in hand
take pity on
take pity upon
take place
take pleasure in
take position
take possession
take possession of
take potluck
take precautions
take precedence
take pride in
take prisoner
take rank
take refuge
take refuge in
take residence at
take rest
take revenge
take rise
take root
take shame
take shape
take shelter
take ship
take short
take sick
take sides
take sides with
take silk
take snuff
take some doing
take something in your stride
take soundings
take steps
take steps and measures
take stock
take stock in
take stock of
take ten
take the Lord's name in vain
take the air
take the air line
take the attitude
take the average
take the back track
take the bait
take the ball on the rebound
take the bit in
take the bit in the teeth
take the bit in your teeth
take the bite out
take the blame
take the breath away
take the bull by the horns
take the cake
take the chair
take the chance
take the chances of
take the chill off
take the consequences
take the count
take the cross
take the cure
take the dimensions of
take the edge off
take the edge off of
take the fancy of
take the field
take the first step
take the floor
take the good the gods provide
take the ground
take the ground from under
take the heart out of
take the helm
take the initiative
take the last count
take the law in your own hands
take the law into your own hands
take the law of
take the law on
take the lead
take the liberty
take the lid off
take the life of
take the load off your mind
take the mantle of
take the marriage vows
take the mean
take the measure
take the measure of
take the mind off of
take the offensive
take the opportunity
take the part of
take the place of
take the pledge
take the plunge
take the rap
take the rap for
take the reciprocal course
take the reins into your hand
take the reins of government
take the responsibility
take the risk
take the road
take the shape of
take the shine out of
take the starch out of
take the sting out
take the sting out of
take the stump
take the the bull by the horns
take the throne
take the tuck out of
take the veil
take the vows
take the wind out of
take the wind out of your sails
take the words out of your mouth
take the wraps off
take things as they come
take thought of
take time
take time by the forelock
take time out
take to
take to account
take to arms
take to be
take to court
take to drink
take to drinking
take to flight
take to heart
take to mean
take to one's heels
take to pieces
take to task
take to the air
take to the airways
take to the bosom
take to the cleaners
take to the hustings
take to the road
take to the stump
take to wife
take to your arms
take to your heels
take to yourself a wife
take trouble
take turns
take umbrage
take unawares
take under active consideration
take under advisement
take under consideration
take under your wing
take up
take up a side
take up again
take up an inquiry
take up and pay off
take up arms
take up membership
take up residence
take up the cause of
take up the cudgels
take up the cudgels against
take up the cudgels for
take up the gauntlet
take up the hatchet
take up the sword
take up time
take up with
take up your abode
take up your option
take up your quarters
take up your thoughts
take up your time
take upon your shoulders
take upon yourself
take vows
take what comes
take wing
take with a grain of salt
take wrong
take you at your word
take you back
take you up on
take your bearings
take your breath away
take your business to
take your case to the public
take your chance
take your choice
take your constitutional
take your cue from
take your death
take your departure
take your dust
take your ease
take your fancy
take your foot off the gas
take your hat off to
take your head off
take your last breath
take your last sleep
take your leave
take your leisure
take your life away
take your life in your hand
take your life in your hands
take your lumps
take your measure
take your medicine
take your oath
take your oath upon
take your opinions ready-made
take your own course
take your own life
take your own sweet time
take your picture
take your place
take your pleasure
take your position
take your punishment
take your sabbatical
take your stand
take your stand against
take your stand upon
take your time
take your trade to
take your turn
take your way
take your word
take your word for
take yourself away
take yourself off
take-
take-all
take-charge
take-charge guy
take-down
take-home
take-home examination
take-home pay
take-in
take-off
take-off booster
take-off rocket
take-off speed
take-off strip
take-out
take-over
take-up
take-up box
taken aback
taken as granted
taken away
taken by surprise
taken for granted
taken ill
taken off
taken on
taken unawares
taken up
taken up with
taken with
takeoff power
takeoff ramp
takeoff rocket
takeoff run
takeout double
taker-down
taker-in
taker-off
taking a part
taking a role
taking all in all
taking all things together
taking apart
taking away
taking by storm
taking down
taking everything into account
taking exception
taking from under wraps
taking in
taking into account
taking into account that
taking into custody
taking it for all in all
taking leave
taking of life
taking off
taking office
taking on
taking one thing with another
taking or drawing out
taking over
taking place
taking possession
taking the wraps off
taking ways
taking-in
tal-laisim
talba gum
talc bag
talc blank
talc brick
talc crayon
talc cube
talc facing
talc pencil
talc pulverizer
talc schist
talc-grinding
talca gum
talco gum	
talcum powder
tale-teller
tale-telling
taleh gum
talent money
talent scout
talent show
talented person
talha gum
talk about
talk against time
talk at
talk away
talk back
talk beans
talk between ships
talk big
talk dirty
talk double Dutch
talk down
talk down to
talk film
talk highfalutin
talk idly
talk in
talk in superlatives
talk incoherently
talk into
talk nineteen to the dozen
talk nonsense
talk of
talk of the town
talk off the top of your head
talk on
talk out
talk out of
talk out of turn
talk over
talk over the back fence
talk round
talk show
talk the hind leg off a mule
talk through your hat
talk to
talk to death
talk to hear your head rattle
talk to in private
talk to yourself
talk together
talk too much
talk turkey
talk up
talk with
talk with one
talk with you in private
talk you around
talk you deaf and dumb
talk you into a fever
talk you to death
talk your ear off
talk your head
talk your head off
talk yourself hoarse
talk yourself out of breath
talk-back
talkative person
talked about
talked-about
talked-of
talkee-talkee
talking book
talking chief
talking down
talking machine
talking out of
talking picture
talking point
talking through your nose
talking to hear yourself talk
talking-down system
talking-to
talking-tos
talky-talk
talky-talky
tall as a maypole
tall coreopsis
tall drink
tall fescue
tall meadow oat
tall meadow rue
tall oat grass
tall oil
tall order
tall person
tall poppy
tall ship
tall story
tall sunflower
tall tale
tall talk
tall-bodied
tall-built
tall-case clock
tall-chimneyed
tall-columnned
tall-corn
tall-armed
tall-growing
tall-looking
tall-masted
tall-master
tall-necked
tall-pillared
tall-sceptered
tall-sitting
tall-spired
tall-stalked
tall-stemmed
tall-trunked
tall-tussocked
tall-wheeled
tallith katan
tallow bayberry
tallow candle
tallow catch
tallow chandler
tallow chandlery
tallow chandling
tallow cooler
tallow crackling
tallow cup
tallow cutter
tallow dip
tallow drop
tallow gourd
tallow loaf
tallow mange
tallow melter
tallow nut
tallow oil
tallow pot
tallow press
tallow refiner
tallow renderer
tallow sampler
tallow shrub
tallow tree
tallow wood
tallow-chandlering
tallow-colored
tallow-cut
tallow-face
tallow-faced
tallow-hued
tallow-lighted
tallow-pale
tallow-top
tallow-topped
tallow-white
tally board
tally card
tally clerk
tally iron
tally of
tally plan
tally room
tally sheet
tally shop
tally stick
tally trade
tally up
tally walk
tally with
tally-ho
tallyho back
tallyho coach
tallyho over
talmi gold
talon-tipped	am o’ shanter
tam o'shanter	am-o’-shanter	am-o’shanter	am-o-shanter	am-o-shantered	am-tam	amale pie	tamarack pine	tamarind fish	tamarind plum	tamarisk family	tamarisk salt	tamarisk salt tree	tamarix family	tambookie grass	tambour clock	tambour lace	tambour stitch	tambour stitcher	tambour work	tame-grief	tame-grown	tame-lived	tame-looking	tame-minded	tame-natured	tame-spirited	tame-witted	tammie norie	tammy cloth	tamp in	tamper with	tampered with	tamping bar	tamping iron	tamping pick	tamping stick	tan bay	tan oak	tan your hide
tan-burning
tan-colored
tan-faced
tan-mouthed
tan-sailed
tan-skinned
tan-strewn
tan-tan
tan-tinted
tan-trodden
tanbark beetle
tanbark oak
tanbark tree
tandem bicycle
tandem cart
tandem plane
tandem rotors
tandem seat
tandem-compound
tandem-punch
tandem-rotor helicopter
tang chisel
tang end
tangent distance
tangent galvanometer
tangent plane
tangent-cut
tangent-saw
tangent-sawed
tangent-sawing
tangent-sawn
tangential motion
tangerine-colored	
tangible assets
tangle picker
tangle up with
tangle with
tangle-haired
tangle-headed	
tangle-legs
tangle-tail
tangle-tailed			
tangled in
tangled skein
tank car
tank circuit
tank corps
tank corpsman
tank crewman
tank destroyer
tank dome
tank drama
tank driver
tank engine
tank farm
tank farming
tank fighter
tank furnace
tank iron
tank liquor
tank locomotive
tank meter
tank nipple
tank rivet
tank runner
tank ship
tank station
tank suit
tank table
tank top
tank town
tank trailer
tank truck
tank up
tank wagon
tank waste
tank-town
tankard bearer
tankard-bearing
tanker ship
tannery fungus
tannic acid
tannin color
tanning extract
tanno-
tannyl acetate
tansy mustard
tansy oil
tansy ragwort	
tant mieux
tant pis
tant soit peu
tantalic acid
tantalum lamp
tao-tieh
tap bell
tap bolt
tap bond
tap borer
tap chuck
tap cinder
tap cutter
tap dance
tap dancertap dancing
tap dressing
tap drill
tap extractor
tap funnel
tap gauge
tap grinder
tap holder
tap hose
tap line
tap out the rhythm
tap rate
tap reamer
tap rivet
tap screw
tap shoe
tap tool
tap water
tap wrench
tap-dance
tap-danced
tap-dancer
tap-dancing
tap-hole
tap-house
tap-lash
tap-off
tap-pickle
tap-room
tap-root
tap-tap
tap-tap-tap
tapa cloth	ape cartridge
tape cassette
tape deck
tape fern
tape grass
tape machine
tape measure
tape memory
tape needle
tape player
tape price
tape reader
tape reading
tape recorder
tape recording
tape sizer
tape sizing
tape thermometer
tape-bound
tape-grass family
tape-printing
tape-record
tape-slashing
tape-tied
tape-tying
taped program	
taped show
taper drill
taper file
taper gauge
taper jack
taper mandrel
taper off
taper pin
taper pipe thread
taper reamer
taper reducer sleeve
taper tap
taper to a point
taper tool
taper-bored
taper-fashion
taper-fashion arrow
taper-grown
taper-headed
taper-lighted
taper-limbed
taper-molded
taper-pointed
tapered-in
tapestry Brussels	
tapestry beetle
tapestry carpet
tapestry glass
tapestry maker
tarpaulin muster
tarpaulin-covered
tarpaulin-lined	
tarragon oil
tarragon vinegar
tarred with the same brush	
tarry for
tarry-breeks
tarry-fingered
tarry-jacket
tarrying irons
tarso-
tarso-metatarsal
tarso-metatarsus
tarso-orbital
tart up
tartan velvet
tartan-purry
tartar emetic
tartar sauce
tartar steak
tartar yeast
tartare sauce
tartare steak
tartaric acid
tartro-
task force
task group
task the mind with
task time
task wage
task with
task-work
tasmanian devil
tasmanian wolf
tassel bush
tassel flower
tassel grass
tassel hand
tassel hyacinth
tassel mold
tassel plant
tassel pondweed
tassel stitch
tassel tree
tassel weaver
tassel-hung	
taste beaker
taste blood
taste bud
taste bulb
taste cell
taste cup
taste goblet
taste good
taste hair
taste in the mouth
taste like
taste like ashes in the mouth
taste of
taste paper
taste-maker
tat tvam asi
tat-tat
tat-tat-tat
tatou peba
tattie bogle
tattie lifting	attle on
tattletale gray	tattoo mark	tatty-peelin	tau cross	tau staff	tau-meson	tau-saghyz	tau-topped	taunt ship	taunt with	taunt-masted	taunt-rigged	taupe brown	taupe-rose	tauro-
taurocholic acid	taut as a bowstring	taut-
tauto-
tavern car
tavern table
tavern token
tavern-gotten
tavern-hunting
tavern-tainted	taw line	tawdry lace
tawed leather
tawny owl
tawny port
tawny-brown
tawny-coated
tawny-colored
tawny-faced
tawny-gold
tawny-gray
tawny-green
tawny-haired
tawny-moor
tawny-olive
tawny-skinned
tawny-tanned
tawny-visaged
tawny-whiskered
tawny-yellow

tax anticipation note
tax assessor
tax avoidance
tax base
tax benefit
tax bond
tax book
tax cart
tax certificate
tax collecting
tax collector
tax collectors
tax credit
tax deduction
tax deed
tax dodger
tax dodging
tax evader
tax evasion
tax exemption
tax farmer
tax haven
tax layer
tax levy
tax lien
tax list
tax money
tax rate
tax receiver
tax return
tax roll
tax sale
tax shelter
tax stamp
tax stamp n
tax structure
tax taker
tax the memory
tax title
tax with
tax withholding
tax write-off
tax your energies
tax yourself
tax-
tax-born
tax-bought
tax-burdened
tax-cart
tax-deductible
tax-dodging
tax-exempt
tax-exempt bond
tax-exempt status
tax-free
tax-free bond
tax-gatherer
tax-laden
tax-levying
tax-ridden
tax-supported	axable goods	axable income	axable land	axable property	axi dancer	axi driver	axi horn	axi radar	axi strip	axi truck	axi-bordered	axi-cab	aximeter cab
tch tch
tcheck out
te deum
te igitur
tea meeting
teat mite
teame mixer
team mosquito
teaf oil
teaf oil tree
teaf olive
teaf packer
teaf party
teaf percolator
teaf plant
teaf planter
teaf planting
teaf plate
teaf rose
teaf sampler
teaf scrub
teaf service
teaf set
teaf shop
teaf sifter
teaf strainer
teaf table
teaf tasting
teaf towel
teaf tray
teaf tree
teaf trolley
teaf urn
teaf wagon
teaf weigher
teaf-blending
teaf-chest
teaf-clipper
teaf-colored
teaf-covered
teaf-cup
teaf-garden
teaf-gardened
teaf-growing
teaf-inspired
teaf-leaf
teaf-leaved
teaf-leaves
teaf-loving
teaf-maker
teaf-mixing
teaf-of-heaven
tea-packing
tea-party
tea-plant
tea-planter
tea-pot
tea-producing
tea-rose
tea-rose pink
tea-scented
tea-seed oil
tea-sodden
tea-spoon
tea-swilling
tea-table
tea-table talk
tea-tabular
tea-taster
tea-things
tea-tray
tea-tree
teach a lesson
teach an old dog new tricks
teach fishes to swim
teach in
teach the elements
teach the rudiments
teach-in
teach-ins
teacher bird
teacher clerk
teacher edition
teacher of rhetoric
teacher training
teacher's aide
teacher's pet
teachers college
teachers' college
teaching aid
teaching assistant
teaching elder
teaching fellow
teaching fellowship
teaching hospital
teaching institution
teaching intern
teaching machine
teaching staff
teagle post
teak-brown
teak-built
teak-complexioned
teak-lined
teak-producing
teal blue
teal duck
teal flock
team boat
team play
team spirit
team teaching
team up
team up with
team with
team-mate
tear along
tear apart
tear around
tear ass
tear away
tear bag
tear bomb
tear bottle
tear down
tear duct
tear from
tear gas
tear gland
tear grass
tear grenade
tear into
tear limb from limb
tear loose
tear off
tear off the mask
tear open
tear out
tear sheet
tear shell
tear streak
tear strip
tear tape
tear to pieces
tear to rags
tear to shreds
tear to tatters
tear up
tear up the earth
tear up the road
tear up the track
tear up your mortgage
tear your hair
tear your hair out
tear yourself away
tear-
tear-acknowledged
tear-affected
tear-angry
tear-arresting
tear-attested
tear-baptized
tear-bedabbled
tear-bedewed
tear-besprinkled
tear-blinded
tear-bottle
tear-bright
tear-commixed
tear-compelling
tear-composed
tear-creating
tear-damped
tear-derived
tear-dewed
tear-dimmmed
tear-distained
tear-distilling
tear-dropped
tear-drowned
tear-eased
tear-embarrassed
tear-expressed
tear-falling
tear-filled
tear-forced
tear-fraught
tear-freshened
tear-gas
tear-gas bomb
tear-gas grenade
tear-gas gun
tear-gassed
tear-gassing
tear-glistening
tear-imaged
tear-jerker
tear-jerking
tear-kissed
tear-lamenting
tear-lined
tear-marked
tear-melted
tear-mirrored
tear-misty
tear-mocking
tear-moist
tear-mourned
tear-off
tear-out
tear-owned
tear-pale
tear-pardoning
tear-paying
tear-persuaded
tear-phrased
tear-pictured
tear-pitying
tear-plagued
tear-pouring
tear-practiced
tear-procured
tear-protested
tear-provoking
tear-purchased
tear-quick
tear-raining
tear-reconciled
tear-regretted
tear-resented
tear-revealed
tear-reviving
tear-salt
tear-scomning
tear-sealed
tear-shaped
tear-shedding
tear-shot
tear-stained
tear-stubbed
tear-swollen
tear-thirsty
tear-washed
tear-wet
technological school
technological unemployment
technological warfare
techno-
tectorial membrane
teddy bear
teddy boy
teddy girl
teddy-bear
tedious work
tedium-proof
tee bar
tee beam
tee burial
tee iron
tee joint
tee off
tee plate
tee rail
tee shirt
tee slot
tee square
tee-bulb
tee-hee
tee-hole
tee-name
tee-shirt
teed off
teeing ground
teel oil
team over
team with
teeming imagination
teeming loins
fteeming rain
teeming womb
teen age
teen-age
teen-aged
teen-ager
teenie-weenie
teensie-weenie
teesy-weensy
teentsy-weentsy
teeny-weeny
tee-ter-totter
tee-ter-tottering
tee-ter-tottering
telegraph relay
telegraph repeater
telegraph rope
telegraph sounder
telegraph superintendent
telegraph switchboard
telegraph tape
telegraph transmitter
telegraph tubing
telegraph wire
telegraph wireman
teleo-
teleological argument
teleological proof
telepathic dream
telepathic hallucination
telepathic transmission
telephone amplifier
telephone area
telephone arm
telephone attendant
telephone bell
telephone book
telephone booth
telephone box
telephone cabinet
telephone cable
telephone call
telephone case
telephone cell
telephone closet
telephone coil
telephone condenser
telephone connector
telephone cord
telephone counter
telephone desk
telephone directory
telephone engineer
telephone engineering
telephone exchange
telephone extension
telephone faultsman
telephone fitter
telephone fuse
telephone generator
telephone holder
telephone instrument
telephone insulation
telephone insulator
telephone jack
telephone kiosk
telephone knob
telephone laborer
telephone line
telephone lineman
telephone magneto
telephone man
telephone market
telephone mechanic
telephone mechanics
telephone mouthpiece
telephone number
telephone office
telephone operator
telephone pad
telephone plug
telephone pole
telephone protector
telephone receiver
telephone relay
telephone selector
telephone set
telephone stand
telephone supervisor
telephone support
telephone switch
telephone switchboard
telephone table
telephone tax
telephone terminal
telephone tester
telephone transmitter
telephone wire
telephone wireman
telephonic engineer
telephoto lens
teleprinter exchange
telescope antenna
telescope bag
telescope box
telescope chimney
telescope door
telescope eye
telescope finder
telecope fish
telescope fly
telescope jack
telescope joint
telescope lens
telescope screw
telescope shell
telescope sight
telescope stack
telescope table
telescope tube
telescope word
 telescopic camera
 telescopic sight
 telesstial kingdom
 television audience
 television broadcast
 television camera
 television channel
 television drama
 television engineer
 television mast
 television play
 television radar air navigation
 television receiver
 television receiver parts
 television reception
 television relay
 television set
 television show
 television station
 television studio
 television technician
 television transmission
 television transmitter
 television transmitter parts
 television tube
 television-viewer
tell a good story
tell a lie
tell a story
tell a thing or two
tell all
tell apart
tell confidentially
tell for your ears only
tell fortunes
tell how
tell idle tales
tell in advance
tell in glowing terms
tell it like it is
tell it not in Gath
tell it to the judge
tell its own story
tell its own tale
tell more than you want to know
tell off
tell on
tell once and for all
tell one thing from another
tell secrets
tell tales
tell tales out of school
tell the future
tell the meaning of
tell the news
tell the truth
tell true
tell where to get off
tell you a secret
tell you to your face
tell your beads
tell your fortune
tell yourself
tell-tale
tell-truth
teller of tales
teller's check
teller-out
telling of beads
telltale compass
telltale sign
tellur-
telluric acid
tellurium glance
telo-
telome theory
telpher carrier
telpher line
telpher railway
telpher ropeway	temper color	temper pin	temper screw	temper tantrum	temper-spoiling
temper-trying
temper-wearing
tempera painting
temperance drink
temperance hotel
temperance movement
temperantia salver
temperantia tray
temperate zone
temperature coefficient
temperature control
temperature curve
temperature gradient
temperature relay
temperature sensation
temperature sense
temperature sensor
temperature signal
temperature spot
temperature wind rose
temperature-humidity index
tempered glass
tempered safety glass
tempered semitone
tempest in a teacup
tempest in a teapot
tempest-bearing
tempest-beaten
tempest-blown
tempest-born
tempest-clear
tempest-driven
tempest-flung
tempest-gripped
tempest-harrowed
tempest-loving
tempest-proof
tempest-rent
tempest-rocked
tempest-scattered
tempest-scoffing
tempest-shattered
tempest-sundered
tempest-swept
tempest-threatened
tempest-torn
tempest-tossed
tempest-troubled
tempest-walking
tempest-winged
tempest-worn
tempestuous rage
tempestuous wind
template excavator
template jig
temple axis
temple flower
temple mound
temple name
temple of the Holy Ghost
temple prostitute
temple title
temple tree
temple-bar
temple-crowned
temple-guarded
temple-haunting
temple-robbing
temple-sacred
temple-treated
tempo mark
tempo primo
tempo rubato
tempo turn
temporal bone
temporal hour
temporal lobe
temporal summation
temporary arrangement
temporary duty
temporary employee
temporary expedient
temporary life annuity
temporary lodger
temporary measure
tempro-
temps lie
tempt Providence
tempt fortune
tempt the appetite
temptation-proof
tempus edax rerum
tempus fugit
ten best-dressed
ten cents
ten commandments
ten million
ten o'clock
ten strike
ten thousand
ten to one
ten-
ten-a-penny
ten-acre
ten-acred
ten-armed
ten-barreled
ten-bore
ten-cell
ten-cent
ten-cent store
ten-coupled
ten-course
ten-cylindred
ten-day
ten-day fern
ten-dollar
ten-dollar bill
ten-dollar gold piece
ten-eighty
ten-fingered
ten-footed
ten-forties
ten-gallon hat
ten-gauge
ten-grain
ten-guinea
ten-headed
ten-horned
ten-horsepower
ten-hour
ten-inch
ten-jointed
ten-keyed
ten-knotter
ten-league
ten-mile
ten-minute
ten-month
ten-oared
ten-parted
ten-peaked
ten-percenter
ten-pins
ten-ply
ten-point
ten-pound
ten-pounder
ten-rayed
ten-ribbed
ten-roomed
ten-second
ten-share unit stock
ten-shilling
ten-spined
ten-spot
ten-strike
ten-striker
ten-stringed
ten-syllable
ten-syllabled
ten-talented
ten-thousandaire
ten-to-one shot
ten-ton
ten-tongued
ten-toothed
ten-twenty-thirty
ten-weeks stock
ten-wheeled
ten-wheeled locomotive
ten-year
tenacious of life
tenaille line
tenant at sufferance
tenant at will
tenant farmer
tenant for life
tenant for years
tenant from year to year
tenant in capite
tenant in chief
tenant right
tenant righter
tenant-in-chief
tenant-right
tend animals
tend on
tend to
tend to a point
tend to go
tend to show
tend toward
tend towards
tendency chord
tendency play
tendency theory
tendency tone
tendency writing
tender age
tender annual
tender conscience
tender feeling
tender heart
tender loving care
tender mercies
tender passion
tender perennial
tender rocket
tender spot
tender susceptibilities
tender thanks
tender your compliments
tender your congratulations
tender your felicitations
tender your resignation
tender-bearded
tender-bladed
tender-bodied
tender-boweled
tender-colored
tender-conscienced
tender-dying
tender-eared
tender-eyed
tender-faced
tender-footed
tender-footedness
tender-foreheaded
tender-handed
tender-hearted
tender-heartedly
tender-hefted
tender-hoofed
tender-hued
tender-looking
tender-minded
tender-mouthed
tender-natured
tender-nosed
tender-personed
tender-rooted
tender-shelled
tender-sided
tender-skinned
tender-souled
tender-taken
tender-tempered
tender-witted
tenderloin steak
tending to
tendinous arch
tendon reflex
tendon sense
tendril climber
tendril-climbing
tene-bricose
tenement building
tenement district
tenement house
tenement of clay
tennessee walking horse
tennis ball
tennis bum
tennis court
tennis elbow
tennis marker
tennis play
tennis player
tennis playing
tennis racket
tennis shoe
tennis shoes
tennis-ball
tennis-court
tennis-play
teno-
tenon auger
tenon saw
tenon tooth
tenonto-
tenor behind
tenor clef
tenor covering
tenor drum
tenor horn
tenor octave
tenor tuba
tenor viol
tenor violin
tenpenny nail
tenpin bowling
tense auxiliary
tense logic
tense phrase
tense readiness
tense-drawn
tense-eyed
tense-fibered
tensile strength
tension carriage
tension element
tension fatigue
tension line
tension pulley
tension rod
tension roller
tension zone
tent bed
tent caterpillar
tent dress
tent fly
tent meeting
tent pegger
tent pegging
tent pin
tent pole
tent show
tent stake
tent stitch
tent stripe
tent tree
tent worm
tent-clad
tent-dotted
tent-dwelling
tent-fashion
tent-fly
tent-peg
tent-shaped
tent-sheltered
tent-stitch
tentaculi-
tentative approach
tentative contact
tentative examination
tentative explanation
tentative method
tentative poke
tentatively suggest
tented field
tenter-hook
tenterhook willey
tenth muse	
tenth's place
tenth-rate
tenu-
tenure by free alms
tenure in chivalry
tenure in free alms
tenure in office
tenure of office
teo-nong
tepary bean
teri-
ter-equivalent
ter-sacred
ter-sanctus
tera-
terai hat
terat-
terbium metal
terbium oxide
tercel gentle
tercel-gentle
terebic acid
terebinic acid
terebinth tree
terephthalic acid
teri-
tergo-
term attendant
term day
term fee
term hour
term insurance
term loan
term of imprisonment
term paper
term policy
term rate
term settlement
term-time
terra sienna
terra sigillata
terra umbra
terra verde
terra-cotta
terra-cotta lumber
terrace maker
terrace-banked
terrace-fashion
terrace-mantling
terrace-steepled
terraced house
terra filii
terra filius
terrain clearance indicator
terrain cure
terrain map
terramara culture
terrapin paws
terrapin scale
terrassee green
terre verte
terre-a-terreishly
terre-tenant
terre-verte
terrestrial globe
terrestrial guidance
terrestrial kingdom
terrestrial planet
terrestrial telescope
terrible thing
territorial court
territorial defense army
territorial division
territorial militia
territorial reserves
territorial system
territorial waters
territory wool
terror tactics
terror-bearing
terror-breathing
terror-breeding
terror-bringing
terror-crazed
terror-driven
terror-fleet
terror-fraught
terror-giving
terror-haunted
terror-inspiring
terror-lessening
terror-mingled
terror-preaching
terror-ridden
terror-riven
terror-shaken
terror-smitten
terror-stirring
terror-stricken
terror-striking
terror-struck
terror-threatened
terror-troubled
terror-wakened
terror-warmed
terror-weakened
terroristic tactics
terry cloth
tersy-versy
tertia tone
tertiary college
tertiary color
tertiary stress
tertiary syphilis
tertium quid
teru-tero
terza rima
tesla coil
tessara-
test act
test animal
test ban
test bar
test blank
test bow
test boy
test case
test clerk
test cutter
test driver
test flight
test frame
test furnace
test game
test glass
text-writer
textbook editor
textile designer
textile engineer
textile engineering
textile fabric
textile soap
textual critic
textual criticism
textus receptus
th-
thalamo-
thalamo-olivary
thalass-
thale-cress
thall-
thallium oxysulfide
thallium sulfate
thalloid shoot
thalous sulfate
thalofide cell
thanato-
thank God
thank offering
thank you
thank you kindly
thank your stars
thank-offering
thank-you
thank-you-ma'am
thank-you-maam
thanks be to God
thanks to
thanksgiving day
that bald sexton Time
that be
that being so
that being the case
that buttons it up
that dreamless sleep
that fell sergeant
that flattering unction
that goes without saying
that good night
that grim ferryman
that inward eye
that is
that is evident
that is so
that is to be
that is to say
that leaps to the eye
that old bald cheater
that old common arbitrator
that one
that or nothing
that or the other
that orbed continent
that orbed maiden
that time
that unwritten law
that wants discourse of reason
that way
that will be
that's final
that's for sure
that's it
that's just it
that's just the thing
that's right
that's that
that's the end of the matter
that's the idea
that's the thing
that's the ticket
that's the very thing
that's the way the ball bounces
that's your lookout
that's your pigeon
that's your tough luck
that-a-way
that-away
thatch cloak
thatch grass
thatch palm
thatch peg
thatch pin
thatch rake
thatch rod
thatch tree
thatch-browed
thatch-headed
thatch-roofed
thatched roof
thaumato-
thaw out
thaw-drop
the Abbey
the Absolute
the Absolute Being
the Absolute Idea
the Academy
the Acropolis
the Adjutant General
the Admiralty
the Adversary
the Advocate
the Air Pump
the All-father
the All-holy
the All-knowing
the All-merciful
the All-powerful
the All-wise
the Almighty
the Altar
the Americas
the Anointed
the Antarctic
the Apocalypse
the Arch-fiend
the Archer
the Archipelago
the Arctic
the Argentine
the Arrow
the Ascension
the Assumption
the Author of Evil
the Axis
the Bab
the Balance
the Balkans
the Baptist
the Big Board
the Bird of Paradise
the Blessed One
the Blessed Virgin
the Bluegrass
the Book
the Book of Books
the Bowery
the Bread of Life
the Bride of the Lamb
the Bull
the Canaanite
the Cape
the Carolinas
the Cascades
the Catacombs
the Caucasus
the Centaur
the Chained Lady
the Chameleon
the Charioteer
the Christ
the Christ Child
the Church
the City
the Clock
the Coalsack
the Coast
the Colonies
the Colophonian
the Comforter
the Common Enemy
the Commonwealth
the Commonwealth of Nations
the Commune
the Compasses
the Confederacy
the Confederation
the Confessor
the Conquest
the Consoler
the Continent
the Crab
the Crane
the Creation
the Creator
the Cross
the Crow
the Crown
the Cup
the Cyprian
the DT's
the Dakotas
the Dales
the Decalogue
the Deity
the Deluge
the Demon
the Demon Rum
the Depression
the Destinies
the Destroyer
the Deuce
the Devil
the Devil Incarnate
the Devil's pitchfork
the Dickens
the Digest
the Dirae
the Directory
the Divine
the Divine Liturgy
the Divinity
the Dog Star
the Dolphin
the Dominion
the Door
the Dorado Fish
the Dove
the Doxology
the Dragon
the Eagle
the East
the Eddas
the Eight
the Elevation
the Enemy
the Enlightenment
the Erinyes
the Essence of the Universe
the Establishment
the Eternal
the Eternal Being
the Eucharist
the Eumenides
the Everlasting
the Everlasting Father
the Evil One
the Evil Spirit
the Exchange
the Exile
the Exodus
the Fall
the Father
the Father of Evil
the Father of Lies
the Fathers
the Fens
the Fiend
the First Cause
the Fishes
the Fleet
the Flood
the Fly
the Flying Fish
the Foal
the Forerunner
the Forum
the Foul Fiend
the Four Freedoms
the Four Hundred
the Fund
the Furies
the Furnace
the Galilean
the Garter
the Giant Hunter
the Giraffe
the Gironde
the Goat
the Good Book
the Good Shepherd
the Gospel
the Gracchi
the Graces
the Grange
the Great Bear
the Great Depression
the Great Divide
the Great Dog
the Great Spirit
the Guardian of Mankind
the Hare
the Hebrides
the Herdsman
the Hill
the Holocaust
the Holy Father
the Holy Ghost
the Holy Sacrament
the Holy See
the Holy Spirit
the Honorable
the Horn
the Horned Goat
the Hours
the Hub
the Hunting Dogs
the Hypostatic Union
the I
the Incarnation
the Indian
the Indies
the Infant Jesus
the Infinite
the Infinite Being
the Infinite Spirit
the Inquisition
the Intercessor
the Jewish Law
the Judge
the Judgment
the Keel
the King of Light
the King's English
the King's evil
the Kirk
the Kremlin
the Lady in the Chair
the Lady of the Lake
the Lamb
the Larger Dog
the Last Day
the Law
the Left
the Legion
the Lesser Bear
the Lesser Dog
the Lesser Lion
the Life
the Light of the World
the Lion
the Litany
the Little Dog
the Little Fox
the Liturgy
the Lizard
the Loop
the Lord Buddha
the Lord of Wisdom
the Lord's Prayer
the Lowlands
the Lynx
the Lyre
the Mafia
the Maker
the Man
the Man of Sorrows
the Mast
the Master
the McCoy
the Mediator
the Method
the Microscope
the Monarch
the Mosaic Law
the Most Excellent
the Most Honorable
the Most Noble
the Most Reverend
the Most Worshipful
the Most Worthy
the Mountain
the Muses
the Nativity
the Nazarene
the Net
the Nine
the Noble
the North Star
the Northern Crown
the Northwest
the Now Generation
the Octant
the Old Adam
the Old Enemy
the Old Gentleman
the Old Man
the Old Serpent
the Olympics
the Omnipotent
the Omniscient
the Only-Begotten
the Orient
the Painter
the Pale Horse
the Paphian
the Peacock
the Peninsula
the Pentagon
the Phoenix
the Plain
the Pole Star
the Porch
the Potteries
the Preparation
the Preserver
the Prince of Darkness
the Prince of the Devils
the Prince of this world
the Promised Land
the Prophet
the Prophets
the Psalmist
the Psalms
the Psalter
the Psaltery
the Queen's English
the Ram
the Rand
the Reaper
the Red Planet
the Reef
the Regenerator
the Reproaches
the Restoration
the Rev Dr Dryasdust
the Reverend
the Right Honorable
the Right Reverend
the Risen
the River Po
the Roman Emperor
the Rule
the Rump
the Sacrament
the Sails
the Salon
the Scales
the Scandinavian Peninsula
the Scorpion
the Scriptures
the Sculptor
the Sculptor's Tool
the Sea Serpent
the Self-determined
the Serpent
the Serpent Bearer
the Seventy
the Sextant
the Shepherd
the Shield
the Ship Argo
the Shires
the Slump
the Snowies
the Snowy
the Son
the Sorrowful Mother
the South Seas
the Southern Crown
the Southern Fish
the Southern Triangle
the Spirit
the Spirit of God
the Spirit of Truth
the Stagirite
the Star-Spangled Banner
the States
the Stern
the Street
the Sudeten
the Sun of Righteousness
the Supreme Being
the Supreme Soul
the Swan
the Taal
the Table
the Teacher
the Telescope
the Tempter
the Thousand and One Nights
the Toucan
the Triangle
the True Vine
the Truth
the Twelve
the Twins
the Ukraine
the Unicorn
the Union
the Universal Ego
the Universal Self
the Unmoved Mover
the VIP's
the Vatican
the Vedas
the Very Reverend
the Vine
the Virgin
the Virgin Mary
the Virgin Mother
the Wandering Jew
the Water Bearer
the Water Carrier
the Water Snake
the Way
the Whale
the Wicked One
the Wigwam
the Winged Horse
the Wise Lord
the Wise One
the Wolf
the Wooden Horse
the Word
the Word Made Flesh
the Word of God
the Wreath
the Writings
the Yukon
the abroad
the absolute truth
the abstract
the absurd
the abyss
the administration
the affirmative
the affluent life
the air
the almighty dollar
the alphabet
the altogether
the always wind-obeying deep
the amount
the ancient and honourable
the angel of the bottomless pit
the anouilh
the ape of wisdom
the arch of heaven
the archenemy
the arms of Morpheus
the art of conversation
the art of hoping
the art of the possible
the article
the arts
the assured
the atmosphere of Soul
the attainable
the author of authors
the authorities
the avarice of power
the ax
the back of beyond
the backs
the bad
the battle of life
the be-all and the end-all
the beast
the beast with many heads
the beasts of the field
the beaten path
the beaten track
the beautiful
the beezie-weezies
the believing
the bends
the best
the best ever
the best people
the best words in the best order
the best you can
the best you know how
the beyond
the big battalions
the big idea
the big lie
the big picture
the big smoke
the big stick
the big time
the big top
the bird
the biter bit
the black art
the blahs
the blaze of noon
the blessed
the blind
the blind leading the blind
the block
the blood of life
the bludgeon
the blue
the blue planet
the blue serene
the blues
the boards
the book
the boondocks
the boot
the boot in the face
the border
the bosom of our rest
the bottle
the bottom line
the bottomless pit
the bounce
the bounding main
the boyhood of the year
the brandy of the damned
the brass
the brave
the breaks
the brine
the briny
the briny deep
the brush
the bubble reputation
the buff
the bum's rush
the bunch
the burning tapers of the sky
the bush
the business of barbarians
the business world
the campus
the case
the cat's meow
the cat's pajamas
the chair
the chances are
the chase
the children of God
the children of light
the choir invisible
the chosen
the chuck
the church
the church universal
the cinema
the circumcision
the citizenry
the clash of creeds
the classes
the classics
the clear hyaline
the clinches
the clocksetter
the cloth
the cloven hoof
the club
the coast is clear
the cold shoulder
the comic
the common
the common herd
the commonplace
the community
the compleat
the compleat angler
the complete
the concrete
the condition being such
the confessional
the confessionary
the conn
the conscious
the contrary
the conventions
the cool of the evening
the cops
the corpus
the corridors of power
the couch
the count
the country
the courage of your convictions
the course of events
the courts
the cradle
the creed
the creeps
the cricket no relief
the crippled
the crowd
the crown
the crown of life
dead
the cunning of the serpent
cup
cup that cheers
curse
curse of Eve
daily round
damned
dance
danger is past
dangerous age
dansant
dark
dark sanctuary of incapacity
data
dawn of day
dawn's early light
day after tomorrow
days of our years
days that are no more
dead
dead Summer's soul
deaf
deal is off
deceased
deep
deep blue sea
deep sea
deeps
defensive
defunct
departed
depths
desk
details
devil you say
devil and all
devil and the deep blue sea
devil to pay
devil you say
devourer of things
die is cast
dim past
direct opposite
disadvantaged
dismals
the dispossessed
the distance
the distressed
the dizzy rounds
the doldrums
the dolefuls
the domain of the impossible
the domain of the possible
the dome of Thought
the dominion of absurdity
the dope
the down-and-out
the downward path
the downward slope
the dragon
the dream of those that wake
the dress of thoughts
the drill
the duration
the earth
the elect
the elements
the empyrean
the enclosed
the end of the line
the end of the rainbow
the ends of the earth
the enemy of creativeness
the ensemble
the entirety
the eternal feminine
the eternal fitness of things
the evil
the evil one
the evil shadow of aspiration
the exact truth
the executive
the expiring day
the exterior
the eye
the fact of the matter
the facts
the facts of the case
the facts of the matter
the fair thing
the faith
the faithful
the family way
the fancy
the far side of
the fat is in the fire
the fat of the land
the feasible
the feast of vultures
the felon winds
the female of the human species
the few
the field
the fights
the first of painters
the first philosophy
the first theology
the flesh
the fleshly
the flip side
the flowing bowl
the following
the footlights
the fore
the forgotten man
the fount whence honour springs
the four corners of the earth
the four elements
the fourth estate
the fowl of the air
the front
the full count
the funny side
the fur fly
the future
the fuzz
the gallows
the gantlet
the gapes
the gas chamber
the gate
the gate of life
the gen
the general drift
the general public
the general tendency
the genuine article
the glad
the glad hand
the glad season of life
the glassy sea
the glorious lamp of Heav'n
the go-ahead
the go-by
the goat god
the god of my idolatry
the gods
the golden touch
the golden years
the good
the good folk
the good hereafter
the good life
the good people
the good side of
the goods
the governor of floods
the government
the grades
the grand style
the grape
the grave
the gray-hooded Ev'n
the great
the great beyond
the great hereafter
the great majority
the great out-of-doors
the great unknown
the great unnumbered
the great unwashed
the great white throne
the great world of light
the greater gods
the greater number
the greatest
the greatest innovator
the greatest number
the green light
the grill
the ground of being
the groves of Academe
the guillotine
the halls of learning
the halt
the handicapped
the handsome thing
the happy land
the hard truth
the hard way
the hard-of-hearing
the harmonious voice of creation
the have-nots
the have
the hawk
the hay
the health of the soul
the hearing of deaf actions
the heebie-jeebies
the height of your ambition
the helm
the help
the herd
the hereafter
the hills
the hoi polloi
the hole
the holy
the holy of holies
the honest truth
the honest-to-God truth
the honey-heavy dew of slumber
the horde
the horrors
the hot seat
the how
the humanities
the hump
the hunted
the hurdles
the idea
the illimitable
the image of life
the immortals
the impossible
the in thing
the incalculable
the individual
the ineffable
the inenarrable
the inexpressible
the infirm
the information
the ingroup
the inner circle
the ins
the intelligent
the intense inane
the interests
the intrinsic truth
the invisible
the iron entering the soul
the irrevocable Past
the jackboot
the jaundice of the soul
the jerks
the jig is up
the jimmies
the journey's end
the jumps
the kibosh on
the king of terrors
the knife
the knowledge
the knowing
the koine
the lam
the lambent easy light
the lame
the last extremity
the last refuge of a scoundrel
the last straw
the last thing civilized by man
the last thing you expect
the last word
the latest
the latest thing
the latest wrinkle
the latter end
the law
the law of the jungle
the lay of the land
the lead
the legitimate
the lesser gods
the letter
the life of Riley
the light fantastic
the lightning's gleaming rod
the like
the like of
the likes of
the limit
the limit of your patience
the line
the little O
the little men
the little people
the livelong day
the living
the living and breathing
the logic of the heart
the long and short of
the long and the short of
the long green
the lord's Supper
the lost
the lot
the loved one
the low'ring element
the lowdown
the lower cut
the loyal opposition
the luscious liquor
the mailed fist
the main course
the major deities
the majority
the majors
the man in the White House
the man in the street
the many
the market
the marketplace
the mass of the people
the masses
the matter is ended
the measure of all things
the measure of the year
the melting pot
the microscope of the judgment
the middle of nowhere
the middle years
the mighty
the military
the millennium
the million
the mind's immodesty
the ministry
the minor deities
the minority
the minors
the mirror image
the mirror of all courtesy
the mirror of the soul
the mob
the moon
the moon personified
the more it changes
the more it's the same thing
the mores
the morn
the morrow
the mosaic of the Air
the most
the mother of devotion
the mother of prejudice
the movies
the multitude
the mundane
the music of the soul
the music of the spheres
the mystic wine of Night
the mystical jewels of God
the naked ape
the naked truth
the native hue of resolution
the nature of the beast
the nature of things
the necessary
the neck up
the needful
the needle
the needy
the negative
the new look
the new music
the nitty-gritty
the nod
the nonce
the noose
the normal
the normal order of things
the not ourselves
the now
the nth degree
the nude
the numbers
the numbers game
the numinous
the nursery
the nuts
the observed of all observers
the occult
the odds are
the offending Adam
the old Adam
the old college spirit
the old college try
the old country
the old heave-ho
the old man
the old man of the sea
the old one-two
the old woman
the olden time
the only animal that blushes
the only son of Mary
the only universal tongue
the open
the open air
the open road
the opening eyelids of the morn
the opposite extreme
the opposition
the ordinary
the orthodox
the other
the other America
the other day
the other extreme
the other half
the other side
the other side of
the other side of the coin
the other side of the picture
the other side of the tracks
the other way around
the out-of-doors
the painter of the soul
the palace of the Soul
the pale child
the pale populace of Heaven
the palpable obscure
the particular
the particulars
the past
the past again
the people
the people in the front office
the people upstairs
the perfection of nature
the petrifaction of feelings
the physic of the field
the pick
the picture
the pictures
the pill
the pip
the pit
the pits
the plain style
the plain truth
the planet
the plate
the plaything of fortune
the pledge
the plumeless genus of bipeds
the plural
the point
the polar opposite
the poor
the poor man's Parnassus
the populace
the population
the possible
the power elite
the power structure
the powerless
the powers that be
the present
the present age
the present day
the present hour
the present juncture
the present moment
the present occasion
the present time
the press
the prime work of God
the principality
the printing press of all ages
the profane
the profession
the proof of the pudding
the proper thing
the proper thing to do
the proprieties
the prosecution
the proud
the provinces
the prudent
the public
the pulpit
the purple
the quick
the quick and the dead
the quiet-voiced elders
the rabble
the rack
the rackets
the radiant sun
the rage
the rat race
the raw
the ready
the real McCoy
the real Simon Pure
the real thing
the realized ideal
the realm of possibility
the realm of the impossible
the record
the red sweet wine of youth
the reign of Spirit
the religious
the remembrance of things past
the reprobate
the rest is silence
the reverend mother
the reverse image
the rhythmic
the rich
the right Reverend
the right of the strong
the right side of
the right thing
the right thing to do
the right things
the right to live as we wish
the righteous
the ring
the road
the road to ruin
the rope
the rough
the round
the rounds
the ruddy cup
the rule and pattern of speech
the rulers
the ruling spirit of all things
the run of
the runaround
the runs
the sack
the sacred
the salt of the earth
the same
the same damn thing
the same difference
the same old thing
the same way
the saved
the say
the say-so
the scenes
the scoop
the score
the screaming meemies
the screen
the sea-mouth of mortality
the season
the season's look
the second soul of the unhappy
the secular
the seed of Chaos
the seemly
the seen
the self
the sensible
the sere
the serpent
the seven seas
the shades
the shadow of a shade
the shady side
the shakes
the shape of things
the shining ones
the ship
the shoe is on the other foot
the sick
the sightless
the silver livery of advised age
the silver screen
the simple truth
the sincerest form of flattery
the sinews of affairs
the sinews of war
the size of it
the skids
the sleep of the dead
the sleeping partner of life
the slip
the slums
the small hours
the sniffles
the snuffles
the sober truth
the social evil
the soft down of manhood
the soft underbelly of Europe
the soil
the son of Mary
the soul of the world
the soul of wit
the special
the specific
the specifics
the speech of angels
the spit and image of
the spoken word
the sport of fortune
the sport of kings
the squirrel cage
the stage
the stake
the state of affairs
the status quo
the stern truth
the sticks
the still
the stork
the storm blown over
the storm has blown over
the story
the straight and narrow
the straight of it
the straight truth
the strange
the string
the strong
the strong arm
the stuff
the subject is closed
the sublime
the sublime style
the suit of night
the summer of your youth
the summit
the supernatural
the supersensible
the supreme fiction
the suspicion of a suspicion
the sweat of your brow
the sweet by-and-by
the sweeter banquet of the mind
the sword
the syndicate
the tag-rag people
the temporal
the theater
the thing
the third dimension
the third estate
the thirtieth of February
the throne
the thunder
the time
the time being
the time of the singing of birds
the times
the tongue of vanity
the tooth of time
the top
the top of your bent
the tops
the touch
the toy of fortune
the trade of kings
the tragic
the transgression of the law
the treadmill
the treasury of everlasting joy
the tribute due unto nature
the tropics
the trots
the true
the true church
the truth
the truth of the matter
the tullies
the turf
the two
the unalloyed truth
the unconscious
the undead
the underground
the underprivileged
the undersigned
the understanding
the underworld
the unemployable
the unemployed
the unfamiliar
the unforeseen
the unholy
the unique
the universal sovereign
the unknowable
the unknown
the unlooked-for
the unqualified truth
the unrighteous
the unrolled scroll of prophecy
the unseeing
the unseen
the unspeakable
the unutterable
the unvarnished truth
the unwritten law
the urban poor
the usual
the vanquished
the various turns of chance
the vasty deep
the veil
the veriest
the very May-morn of his youth
the very Reverend
the very acme and pitch
the very best
the very model
the very pineapple of politeness
the very pink of courtesy
the very thing
the very witching time of night
the very words
the visible
the void
the void above
the vote
the vulgar herd
the wakey nights
the wandering Moon
the warder of the brain
the wat'ry star
the wavy waste
the way it is
the way it looks
the way it shapes up
the way of
the way of it
the way of the world
the way of things
the way the ball bounces
the way the cards fall
the way the cookie crumbles
the way the wind blows
the way things are
the way things fall
the way things go
the way you are
the way you feel
the way you think
the ways of the world
the wealthy
the weary round
the weather
the weed
the well to do
the whatfor
the wheel
the wheels of justice
the wherefore
the wherewith
the wherewithal
the while
the white radiance of eternity
the whitening shower
the whites
the whole
the whole bit
the whole night
the whole range
the whole spectrum
the whole story
the whole truth
the whole way to
the why
the why and wherefore
the whyfor
the wicked
the wild
the wind personified
the winds
the wine of life
the wine-dark sea
the wings of the wind
the wink
the wink of an eye
the wire
the wise
the womb of time
the wooded mountains
the word 'go'
the works
the world
the world above
the world of commerce
the world of trade
the world of waters wild
the world over
the worldly
the worse for
the worse for liquor
the worse for wear
the worst
the worst of all evils
the worst way
the wretched of the earth
the written word
the wrong side of forty
the wrong way
the years that are past
the yellow leaf
the-
theater lighting
theater man
theater of cruelty
theater of operations
theater of the absurd
theater of war
crueley
theatre stall
theatre-in-the-round
theatre of the absurd
theatre stall
theatre-in-the-round
theatrical agent
theatrical makeup
theatrical performance
theatrical season
theatro-
theoco-
theezan tea
theft insurance
theft-boot
thegn-born
thegn-right
thematic apperception test
thematic development
thematic map
theme and variations
theme park
theme song
then and there
then as previously
then-a-days
then-clause
thence-from
theo-
theobroma oil
theological hermeneutics
theological school
theological seminary
theological student
theological virtue
theological virtues
theologico-
theologo-
theology of crisis
theophylline ethylenediamine
theorem of the mean
theoretic atom
theoretic atoms
theoretical arithmetic
theoretical basis
theoretical chemistry
theoretical construct
theoretical economics
theoretical justification
theoretical linguistics
theoretical mechanics
theoretical physics
theoretical specific impulse
theoretical structure
theory of beauty
theory of being
theory of equations
theory of evolution
theory of games
theory of history
theory of knowledge
theory of probability
theory of relativity
theory-blind
theory-blinded
theory-building
theory-making
theory-spinning
therapeutic abortion
therapeutic index
there and then
there is no help for it
there is no helping it
there is no question
there is not a shadow of doubt
there is nothing more to be said
there is reason to believe
there's no place like home
there's no two ways about it
therefore because of this
therefore on account of this
therio-
therm-
thermal ammeter
thermal barrier
thermal conductivity
thermal cracking
thermal detector
thermal detectors
thermal diffusion
thermal efficiency
thermal engine
thermal equator
thermal equilibrium
thermal neutron
thermal radiation
thermal reactor
thermal shock
thermal spring
thermal timing relay
thermal unit
thermic fever
thermionic cathode
thermionic current
thermionic emission
thermionic grid emission
thermionic instrument
thermionic tube
thermionic tube circuit
thermionic valve
thermite process
thermo development
thermo-
thermo-inhibitory
thermo-unstable
thermocouple instrument
thermocouple meter
thermocouple pyrometer
thermodynamic equilibrium
thermodynamic potential
thermodynamic temperature
thermodynamics pot
thermoelectric couple
thermoelectric current
thermoelectric effect
thermoelectric thermometer
thermoelectromotive force
thermometer pointer
thermometric titration
thermonuclear arsenal
thermonuclear attack
thermonuclear bomb
thermonuclear explosion
thermonuclear fusion
thermonuclear power
thermonuclear reaction
thermonuclear warhead
thermonuclear weapons
thermos bottle
thermos flask
thermosetting plastic
therto-
thesaurus dictionary
these days
thesis dramatist
thesis novel
thesis novelist
thesis play
thesis playwright
theta function
thi-
thiacetic acid
thiazine dye
thick and thin
thick as flies
thick as hail
thick as thieves
thick darkness
thick hide
thick of hearing
thick of things
thick register
thick shade
thick shake
thick shell
thick skin
thick soup
thick space
thick squall
thick with
thick-ankled
thick-barked
thick-barred
thick-beating
thick-bedded
thick-billed
thick-blooded
thick-blown
thick-bodied
thick-bossed
thick-bottomed
thick-brained
thick-breathed
thick-cheeked
thick-clouded
thick-coated
thick-coming
thick-coming fancies
thick-cut
thick-decked
thick-descending
thick-drawn
thick-eared
thick-fingered
thick-flaming
thick-flanked
thick-flashing
thick-fleeced
thick-fleshed
thick-flowing
thick-foliaged
thick-footed
thick-girthed
thick-growing
thick-grown
thick-haired
thick-head
thick-headed
thick-headedness
thick-hided
thick-hidedness
thick-jawed
thick-jeweled
thick-knee
thick-kneed
thick-knobbed
thick-laid
thick-leaved
thick-legged
thick-lined
thick-lipped
thick-looking
thick-maned
thick-necked
thick-packed
thick-pated
thick-peopled
thick-piled
thick-pleached
thick-plied
thick-ribbed
thick-rinded
thick-rooted
thick-rusting
thick-set
thick-shadowed
thick-shafted
thick-shelled
thick-sided
thick-sighted
thick-skinned
thick-skulled
thick-soled
thick-sown
thick-spaced
thick-spread
thick-spread\n
thick-sprung
thick-stalked
thick-starred
thick-stemmed
thick-streaming
thick-swarming
thick-tailed
thick-tailed ray
thick-thronged
thick-toed
thick-tongued
thick-toothed
thick-topped
thick-voiced
thick-walled
thick-warbled
thick-winded
thick-witted
thick-wittedly
thick-wittedness
thick-wooded
thick-woven
thick-wristed
thick-wrought
thickness gauge
thickness of speech
thickness piece
thief ant
thief glass
thief tube
thief-resisting
thief-taker
thieves' cross
thigh boot
thigh boots
thigh puff
thigmo-
thill horse
thill-horse
thimble lily
thimble skein
thimble-crowned
thimble-eye
thimble-eyed
thimble-pie
thimble-shaped
thimble-sized
thin air
thin as a lath
thin as a rail
thin away
thin down
thin end of the wedge
thin ice
thin margin
thin off
thin out
thin person
thin register
thin skin
thin soup
thin space
thin wine
thin-ankled
thin-armed
thin-barked
thin-bedded
thin-bellied
thin-bellied
thin-bladed
thin-blooded
thin-blown
thin-bodied
thin-bottomed
thin-brained
thin-cheeked
thin-clad
thin-coated
thin-cut
thin-descending
thin-eared
thin-faced
thin-featured
thin-film
thin-flanked
thin-fleshed
thin-flowing
thin-frozen
thin-fruited
thin-grown
thin-haired
thin-headed
thin-hipped
thin-laid
thin-leaved
thin-legged
thin-lined
thin-lipped
thin-lippedly
thin-lippedness
thin-necked
thin-officered
thin-peopled
thin-pervading
thin-rinded
thin-set
thin-shelled
thin-shot
thin-skinned
thin-skinnedness
thin-soled
thin-sown
thin-spread
thin-spun
thin-stalked
thin-stemmed
thin-veiled
thin-voiced
thin-walled
thin-worn
thin-woven
thin-wristed
thin-wrought
thing added
thing copied
thing desired
thing done
thing given as a pledge
thing imagined
thing of beauty
thing of interest
thing of naught
thing, the
thing-in-itself
thing-it-self
thing-word
things going against one
things going against you
things to be done
things to do
things-in-themselves
think about
think affirmatively
think aloud
think back
think best
think better of
think better of it
think dependable
think downbeat
think factory
think fit
think good
think hard
think highly of
think ill of
think improbable
think it over
think likely
think little of
think much of
think negatively
think no more of
think no more of it
think nothing of
think of
think one is it
think only of others
think out
think out loud
think over
think piece
think positively
think probable
think proper
think reliable
think tank
think that way about
think the best of
think the world of
think the worst of
think through
think too much of
think twice
think twice about
think unlikely
think up
think well of
think well of yourself
think worlds of
think your head off
think your shit doesn’t stink
think-so
think-tank
thinking aloud
thinking cap
thinking machine
thinking of it later
thinking out
thinking over
thinking power
thinking shop
thinking through
thinned-out
thinning agent
thio acid
thio ether
thio salt
thio-
thio-ether
thioacetic acid
thioallyl ether
thioantimonic acid
thioarsenic acid
thioarsenious acid
thiocyan group
thiocyanic acid
thiocyanate group
thiocyanate radical
thioethyl alcohol
thioindigo red B
thioindigo red b
thiol-
thion-
thionic acid
thiopental sodium
thiopentone sodium
thiophosphoric acid
thiosulfuric acid
thiosulphuric acid
third astute
third base
third baseman
third best
third class
third degree
third dimension
third ear
third estate
third estate, the
third eyelid
third force
third hand
third house
third law of motion
third law of thermodynamics
third man
third market
third mate
third mortgage
third officer
third order
third part
third party
third party procedure
third person
third position
third rail
third rank
third reading
third sex
third stomach
third stream
third string
third stringer
third ventricle
third world
third-class
third-class mail
third-degree
third-degree burn
third-degreed
third-degreing
third-estate
third-force
third-hand
third-order
third-rail
third-rate
third-rateness
third-rater
third-string
third-world
thirst after
thirst country
thirst for
thirst for knowledge
thirst quencher
thirst-abating
thirst-allaying
thirst-creating
thirst-inducing
thirst-maddened
thirst-quenching
thirst-raising
thirst-scorched
thirst-tormented
thirsty for knowledge
thirsty soul
thirteen-day
thirteen-inch
thirteen-lined
thirteen-lined gopher
thirteen-pence halfpenny
thirteen-ringled
thirteen-square
thirteen-stone
thirteen-story
thirteenth chord
thirty-acre
thirty-day
thirty-eight
thirty-eighth
thirty-fifth
thirty-first
thirty-five
thirty-foot
thirty-four
thirty-fourth
thirty-gunner
thirty-hour
thirty-inch
thirty-knot
thirty-mile
thirty-nine
this stage
this very minute
this way
this world
this-a-way
this-way-ward
this-worldian
this-worldliness
this-worldly
this-worldliness
thistle ball
thistle beard
thistle butterfly
thistle cock
thistle crown
thistle dollar
thistle family
thistle finch
thistle funnel
thistle noble
thistle poppy
thistle saffron
thistle sage
thistle tube
thistle-down
thistle-finch
thiuram disulphide
thompson submachine gun
thomsen’s disease
thong leather
thong seal
thoraci-
thoracic duct
thoracic surgery
thoraco-
thoracolumbar nervous system
thorium dioxide
thorium emanation
thorium nitrate
thorium oxide
thorium series
thorn apple
thorn broom
thorn crown
thorn devil
thorn forest
thorn hedge
thorn in the flesh
thorn in the side
thorn in your flesh
thorn letter
thorn locust
thorn oyster
thorn palm
thorn plum
thorn poppy
thorn tree
thorn-apple
thorn-bearing
thorn-bound
thorn-bush
thorn-covered
thorn-crowned
thorn-encompassed
thorn-headed
thorn-hedge
thorn-hedged
thorn-marked
thorn-pricked
thorn-resisting
thorn-set
thorn-strewn
thorn-tree
thorn-wounded
thorn-wreathed
thornback ray
thornbill warbler
thorny problem
thorny-backed
thorny-edged
thorny-handed
thorny-pointed
thorny-pricking
thorny-thin
thorny-twinning
thoro-
thorough bass
thorough brace
thorough light
thorough stone
thorough-
thorough-bind
thorough-bore
thorough-cleanse
thorough-dress
thorough-dry
thorough-felt
thorough-fought
thorough-humble
thorough-light
thorough-lighted
thorough-line
thorough-made
thorough-paced
thorough-pin
thorough-ripe
thorough-shot
thorough-stain
thorough-stitch
thou breath of Autumn's being
thou deep and dark blue ocean
thou scarlet sin
thou unrelenting past
thou weed
thou-shalt-not
though the heavens may fall
thought control
thought disorder
thought disturbance
thought reader
thought reading
thought transference
thought writing
thought-abhorrning
thought-bewildered
thought-burdened
thought-challenging
thought-concealing
thought-conjuring
thought-depressed
thought-exceeding
thought-executing
thought-fed
thought-fixed
thought-free
thought-giving
thought-hating
thought-haunted
thought-heavy
thought-heeding
thought-hounded
thought-humbled
thought-imaged
thought-inspiring
thought-instructed
thought-involving
thought-jaded
thought-kindled
thought-laden
thought-lighted
thought-mad
thought-mastered
thought-meriting
thought-moving
thought-numb
thought-out
thought-outraging
thought-pained
thought-peopled
thought-poisoned
thought-pressed
thought-provoking
thought-read
thought-reading
thought-reviving
thought-ridden
thought-saving
thought-set
thought-shaming
thought-sounding
thought-stirring
thought-straining
thought-swift
thought-tight
thought-tinted
thought-tracing
thought-unsounded
thought-winged
thought-working
thought-worn
thought-worthy
thousand dollars
thousand island dressing
thousand million
thousand-acre
thousand-dollar
thousand-dollar bill
thousand-eyed
thousand-footed
thousand-guinea
thousand-handed
thousand-headed
three of a kind
three old cat
three parts
three percent
three r's
three sheets in
three sheets to the wind
three times
three-D
three-a-cat
three-accent
three-acre
three-act
three-aged
three-aisled
three-alarm fire
three-and-a-halfpenny
three-angled
three-arched
three-arm
three-arm protractor
three-armed
three-awned
three-bagger
three-ball
three-ballmatch
three-banded
three-bar
three-base hit
three-basehit
three-bearded
three-bid
three-blade
three-bladed
three-bodied
three-bolted
three-bottle
three-bottom
three-bottom plow
three-bout
three-branch
three-branched
three-bushel
three-by-four
three-capsuled
three-card
three-card lant
three-card loo
three-card monte
three-card trick
three-celled
three-centered arch
three-charge
three-charge rate
three-chinned
three-circle
three-circuit
three-circuit switch
three-class
three-class system
three-clause
three-cleft
three-coat
three-cocked
three-color
three-color photography
three-color printing
three-color process
three-color theory
three-colored
three-colour
three-component
three-coned
three-corded
three-corner
three-cornered
three-cornered hat
three-cornered needle
three-corneredness
three-course
three-crank
three-crowned
three-cup
three-cylinder
three-day
three-day fever
three-day measles
three-dayed
three-deck
three-deck vessel
three-decked
three-decker
three-deep
three-dimensional
three-dimensional chess
three-dimensional display
three-dimensional photography
three-dimensional war
three-dimensional wave
three-dimensionalness
three-dip
three-dropped
three-eared
three-echo
three-edged
three-effect
three-electrode
three-em space
three-eyed
three-faced
three-farthing
three-farthings
three-fathom
three-fibered
three-field
three-figure
three-fingered
three-floored
three-flowered
three-fold
three-foot
three-footed
three-forked
three-formed
three-four time
three-fourths
three-fruited
three-gaited
three-grained
three-groined
three-groove
three-grooved
three-guinea
three-halfpence
three-halfpenny
three-halfpennyworth
three-hand
three-handed
three-headed
three-high
three-hinged
three-hooped
three-horned
three-horse
three-hour
three-in-hand
three-in-one
three-inch
three-index
three-iron
three-island ship
three-jointed
three-layered
three-leaf
three-leaved
three-legged
three-legged race
three-letter
three-lettered
three-life
three-light
three-line
three-lined
three-lipped
three-lobed
three-man
three-mast
three-masted
three-master
three-mile
three-mile limit
three-minute
three-minute glass
three-month
three-monthly
three-mouthed
three-move
three-mover
three-name
three-necked
three-nerved
three-ounce
three-out
three-ovuled
three-pair
three-part
three-part harmony
three-part time
three-parted
three-pass
three-peaked
three-petaled
three-phase
three-phase alternating current
three-phase alternator
three-phase motor
three-phase resistance welder
three-phased
three-phaser
three-piece
three-piece suit
three-pile
three-piled
three-piler
three-pint
three-plait
three-ply
three-point
three-point landing
three-point perspective
three-point problem
three-point switch
three-point turn
three-pointed
three-pointing
three-position
three-poster
three-pound
three-pound piece
three-pounder
three-power receiver
three-pronged
three-quality
three-quart
three-quarter
three-quarter back
three-quarter bed
three-quarter binding
three-quarter nelson
three-quarter time
three-quarter tone
three-quarter turn stair
three-quarter vamp
three-quarter-bred
three-quarters nelson
three-rail
three-ranked
three-reel
three-ribbed
three-ridge
three-ring	hree-ring circus
three-ringed
three-ringed circus
three-roll
three-room
three-roomed
three-row
three-rowed
three-sail
three-salt
three-scene
three-second
three-seeded
three-shanked
three-shaped
three-shilling
three-sided
three-sidedness
three-sixty
three-soled
three-space
three-span
three-speed
three-spined
three-spored
three-spot
three-spread
three-square
three-square file
three-stage rocket
three-star
three-star general
three-step
three-step rocket
three-sticker
three-storied
three-story
three-strand
three-stranded
three-stringed
three-stripped
three-striper
three-styled
three-suited
three-syllable
three-syllable law
threepenny bit
threepenny piece
threescore and ten
threescore years and ten
thresh out
thresh over
thresher shark
thresher whale
threshing floor
threshing machine
threshold exposure
threshold frequency
threshold of sensation
thrice and four times blessed
thrice happy
thrice-accented
thrice-blessed
thrice-boiled
thrice-crowned
thrice-famed
thrice-great
thrice-happy
thrice-honorable
thrice-noble
thrice-sold
thrice-told
thrice-venerable
thrice-worthy
thrift shop
thrift society
thrift stamp
thifty person
thrill killer
thrill of fear
thrill seeker
thrill to
thrill-crazed
thrill-exciting
thrill-less
thrill-pursuing
thrill-sated
thrill-seeking
thriller-diller
thrilling all over
thriving condition
throat brail
throat cavity
throat halyards
throat microphone
throat mike
throat plate
throat seizing
throat sheet
throat sweetbread
throat track
throat-clearing
throat-clutching
throat-cracking
throat-full
throat-latch
throat-slitting
throat-swollen
throbbing pain
threes of death
throgmorton street
thromb-
thrombo-
throne of God
throne room
throne-born
throne-capable
throne-shattering
throne-worthy
throned on highest bliss
throng in
throng with
throstle cock
throstle-cock
throttle down
throttle lever
throttle valve
throttling bar
throttling governor
through and through
through bass
through bolt
through bond
through bridge
through check
through cut
through fire and water
through message
through rate
through retort
through road
through shake
through stane
through stone
through street
through switch
through the agency of
through the good offices of
through the instrumentality of
through the medium of
through the mill
through the night
through thick and thin
through way
through with
through with a fine-tooth comb
through-
through-and-through
through-blow
through-carve
through-cast
through-composed
through-drainage
through-drive
through-formed
through-galled
through-ither
through-joint
through-key
through-lance
through-mortise
through-nail
through-other
through-passage
through-pierce
through-rod
through-shoot
through-splint
through-stone
through-swim
through-thrill
through-toll
through-tube
through-tube boiler
throughout the ages
throughout the course of
throughout the world
throw a curve
throw a curve ball
throw a fight
throw a fit
throw a game
throw a lot of weight
throw a party
throw a pass
throw a pot
throw a scare into
throw a sop to
throw a stone at
throw a wet blanket on
throw a whammy
throw a wrench in the machinery
throw about
throw at
throw away
throw away the opportunity
throw away the prepared text
throw away the scabbard
throw away the speech
throw back
throw blind fear into
throw cold water on
throw doubt upon
throw down
throw down the gage
throw down the gauntlet
throw down the glove
throw down your arms
throw downstairs
throw dust in your eyes
throw forth
throw good money after bad
throw in
throw in prison
throw in the face of
throw in the sponge
throw in the towel
throw in together
throw in with
throw in your teeth
throw into a snit
throw into a stew
throw into a swivet
throw into a tizzy
throw into confusion
throw into disorder
throw into jail
throw into the shade
throw lathe
throw light on
throw light upon
throw line
throw money around
throw mud at
throw of dice
throw of the dice
throw off
throw off all disguise
throw off balance
throw off the scent
throw off your guard
throw on
throw on one’s beam end
throw on paper
throw on the junk heap
throw on the market
throw on your beam ends
throw open
throw open to
throw out
throw out a feeler
throw out a hint
throw out a smoke screen
throw out of gear
throw out of joint
throw out of order
throw out on your ear
throw out the window
throw out your chest
throw over
throw overboard
throw rug
throw stick
throw stones at
throw the book at
throw the bull
throw the first stone
throw the spotlight on
throw to the dogs
throw together
throw under the jailhouse
throw up
throw up the cards
throw up your hands
throw your arms around
throw your back at
throw your hat in the ring
throw your money away
throw your weight around
throw your weight into the scale
throw yourself at the feet of
throw yourself at the head of
throw yourself into
throw yourself into the arms of
throw yourself on
throw yourself on your knees
throw-
throw-back
throw-crook
throw-forward
throw-in
throw-off
throw-on
throw-over
throw-stick
throwing away
throwing downstairs
throwing engine
throwing iron
throwing knife
throwing net
throwing open
throwing out
throwing overboard
throwing power
throwing stick
throwing your hat in the ring
throwing-in
throwing-stick
thrown away
thrown for a loss
thrown into the shade
thrown over
thrown silk
thrown together
thrum-eyed
thrush blackbird
thrush brown
thrush fungus
thrush lichen
thrush nightingale
thrush tit
thrush-breast heart
thrust and parry
thrust aside
thrust at
thrust augmentation
thrust augmenter
thrust back
thrust bearing
thrust coefficient
thrust deduction
thrust down
thrust fault
thrust hoe
thrust in
thrust in the face of
thrust out
thrust over
thrust plane
thrust shaft
thrust to one side
thrust upon
thrust yourself forward
thrust yourself upon
thrusting under
thuja oil
thulium oxide
thumb a ride
thumb ball
thumb bottle
thumb box
thumb cleat
thumb down
thumb flint
thumb glass
thumb hole
thumb holing
thumb index
thumb knot
thumb lancet
thumb lock
thumb loose
thumb notch
thumb nut
thumb one's nose at
thumb over
thumb pad
thumb pin
thumb piston
thumb plane
thumb pot
thumb ring
t thumb rule
t thumb through
t thumb turn
t thumb your nose
t thumb your nose at
t thumb your way
t thumb-and-finger
t thumb-fingered
t thumb-index
t thumb-kissing
t thumb-made
t thumb-mark
t thumb-marked
t thumb-nail
t thumb-ring
t thumb-robe
t thumb-screw
t thumb-shaped
t thumb-stall
t thumb-sucker
t thumb-sucking
t thumb-worn
t thumping a ride
t thumbnail sketch
t thumbs down
t thumbs up
t thumbs-down
t thumbs-up
t thump in
t thump the tub for
t thump-cushion
t thumped-in landing
t thunder against
t thunder along
t thunder and lightning
t thunder at the top of your voice
t thunder ax
t thunder forth
t thunder god
t thunder gods
t thunder mug
t thunder of applause
t thunder planet
t thunder plant
t thunder pumper
t thunder rod
t thunder snake
thunder spirit
thunder tube
thunder-armed
thunder-baffled
thunder-bearer
thunder-blast
thunder-breathing
thunder-charged
thunder-clap
thunder-cloud
thunder-darting
thunder-delighting
thunder-dirt
thunder-fearless
thunder-footed
thunder-forging
thunder-fraught
thunder-free
thunder-girt
thunder-god
thunder-guiding
thunder-gust
thunder-hid
thunder-laden
thunder-maned
thunder-rejoicing
thunder-riven
thunder-ruling
thunder-scarred
thunder-scathed
thunder-shod
thunder-slain
thunder-smitten
thunder-splintered
thunder-split
thunder-splitten
thunder-stone
thunder-storm
thunder-teeming
thunder-throwing
thunder-thwarted
thunder-tipped
thunder-tongued
thunder-voiced
thunder-wielding
thunderstorm cirrus
thus and so
thus and thus
thus far
thus far and no farther
thwacking frame
thwacking horse
thwacking knife
thwacking stool
thwaite shad
thwart motion
thwart-marks
thwart-ship
thwartwise motion
thy name is woman
thy nature's weakness
thyine wood
thym-
thyme camphor
thyme dodder
thyme oil
thyme-capped
thyme-fed
thyme-flavored
thyme-grown
thyme-leaved
thyme-scented
thymic acid
thymo-
thymol blue
thymonucleic acid
thymus death
thymus gland
thymus histone
thyr-
thyrd-
thyro-
thyroid gland
thyroid-stimulating hormone
ti palm
ti tree	
tib-cat

tibetan terrier
tibeto-burman
tibio-
tic douloureux
tic-polonga	
tic-tac-toe
tick bird
tick clover
tick doleru
tick fancy
tick fever
tick off
tick over
tick paralysis
tick trefoil
tick-a-tick
tick-bird
tick-borne typhus
tick-tack
tick-tack-toe
tick-tack-too
tick-tick
ticked off
ticker market
ticker tape
ticker-tape parade
ticket agency
ticket agent
ticket booth
ticket chopper
ticket clerk
ticket collector
ticket day
ticket gate
ticket holder
ticket maker
ticket night
ticket of admission
ticket of leave
ticket office
ticket porter
ticket printer
ticket punch
ticket rack
ticket scalper
ticket taker
ticket varnisher
ticket window
ticket writer
ticket-canceling
ticket-counting
ticket-dating
ticket-making
ticket-of-leave
ticket-of-leave man
ticket-of-leaver
ticket-porter
tide boat
tide chart
tide crack
tide day
tide gage
tide gate
tide gauge
tide hole
tide lock
tide mill
tide of time
tide over
tide pole
tide pool
tide predictor
tide race
tide register
tide rip
tide staff
tide table
tide wave
tide way
tide wheel
tide work
tide-beaten
tide-beset
tide-bound
tide-caught
tide-covered
tide-driven
tide-flooded
tide-forsaken
tide-free
tide-gauge
tide-generating
tide-locked
tide-mark
tide-marked
tide-mill
tide-predicting
tide-producing
tide-ribbed
tide-rip
tide-rode
tide-swept
tide-taking
tide-tossed
tide-trapped
tide-waiter
tide-washed
tide-water
tide-worn
tideland spruce
tidewater cypress
tidewater glacier
tidy step
tidy sum
tidy up
tidy-kept
tidy-looking
tidy-minded
tidy-up
tie band
tie bar
tie beam
tie bolt
tie breaker
tie clasp
tie clip
tie conductor
tie cord
tie down
tie dyeing
tie feeder
tie hand and foot
tie in
tie in a reef
tie in with
tie knot
tie line
tie mill
tie off
tie one on
tie periwig
tie plate
tie point
tie post
tie rod
tie rope
tie silk
tie stay
tie strap
tie tack
tie the hands of
tie the knot
tie the nuptial knot
tie the wedding knot
tie up
tie up with
tie up with red tape
tie up your money in
tie wall
tie your hands
tie-
tie-and-dye
tie-down
tie-dyeing
tie-in
tie-in sale
tie-off rail
tie-on
tie-out
tie-plater
tie-tie
tie-up
tie-wig
tied down
tied house
tied image
tied letters
tied score
tied to your apron strings
tied up
tied up in	
tier building
tier ranger
tier shot
tier table
tierce de Picardie
tierce major
tierce minor
tierce point
tierce rhyme	
tiers etat
tiers-argent	
ties of affection
ties of blood	
tiger beetle
tiger bittern
tiger cat
tiger chop
tiger cocoa
tiger cowrie
tiger finch
tiger fish
tiger frog
tiger grass
tiger heart
tiger lily
tiger milk
tiger mosquito
tiger moth
tiger python
tiger salamander
tiger shark
tiger shell
tiger snake
tiger swallowtail
tiger wolf
tiger's milk
tiger's-eye
tiger-cat
tiger-footed
tiger-lily heart
tiger-looking
tiger-marked
tiger-minded
tiger-mouth
tiger-passioned
tiger-spotted
tiger-striped
tight cooper
tight discipline
tight fit
tight grip
tight hand
tight joint
tight money
tight purse strings
tight rein
tight rope
tight ship
tight spot
tight squeeze
tight-ankled
tight-belted
tight-bodied
tight-booted
tight-bound
tight-clap
tight-clenched
tight-closed
tight-draped
tight-drawn
tight-fisted
tight-fitting
tight-gartered
tight-hosed
tight-knit
tight-laced
tight-limbed
tight-lipped
tight-looking
tight-made
tight-mouthed
tight-necked
tight-packed
tight-pressed
tight-reining
tight-rooted
tight-set
tight-shut
tight-skinned
tight-skirted
tight-sleeved
tight-stretched
tight-tie
tight-valved
tight-waisted
tight-wound
tight-woven
tight-wristed
tighten the purse strings
tighten your belt
tightening pulley
tightrope walker	
tiglic acid
til oil
til seed
til tree
tile drain
tile hook	
tile kiln
tile maker
tile ore
tile painter
tile pin
tile pipe
tile red
tile roof
tile setter's hammer
tile-clad
tile-covered
tile-fish
tile-pin
tile-red
tile-roofed	
till alarm
till basket
till death
till death do us part
till doomsday
till hell freezes over
till money
till now
till shrimps learn to whistle
till the cows come home
till the end of time
till the soil
till then
till time runs out
till time stops
till you are blue in the face
till you're blue in the face	
tiller bow
tiller chains
tiller lines
tiller of the soil
tiller rope
tilleul green	
tilly-fally	
tilly-vally	
tilt angle	
tilt at
tilt at windmills
tilt boat
tilt bonnet
tilt hammer
tilt mill
tilt roof
tilt steel
tilt with	
tilt-boat	
tilt-hammer	
tilt-top table	
tilt-up	
tilt-yard	
tilting chest
tilting conveyor
tilting fillet
tilting ground
tilting hammer
tilting helmet
tilting level
tilting yard
tim-whiskey
timbale case
timbale iron
timber bamboo
timber bar
timber beetle
timber borer
timber contractor
timber cruiser
timber cutter
timber estimating
timber estimator
timber faller
timber forest
timber frame
timber grapple
timber grouse
timber hitch
timber jumper
timber knot
timber leader
timber limit
timber line
timber loader
timber mare
timber marker
timber measurer
timber mill
timber preserver
timber rattlesnake
timber right
timber rot
timber scribe
timber shifter
timber toe
timber toppler
timber topping
timber tower
timber tree
timber unloader
timber wheels
timber wolf
timber worm
timber yard
timber-boring
timber-built
timber-carrying
timber-ceilinged
timber-covered
timber-cutting
timber-devouring
timber-eating
timber-floating
timber-framed
timber-headed
timber-hitch
timber-laden
timber-line
timber-lined
timber-producing
timber-propped
timber-skeletoned
timber-strewn
timber-toed
timber-tree
timber-wood
timber-work
timber-yard
timbrel arch
timbrel vault
time about
time after time
time ahead
time allotment
time allowance
time and a half
time and again
time and motion
time and motion study
time and time again
time at bat
time at your command
time at your disposal
time azimuth
time ball
time bargain
time belt
time bill
time bomb
time of your life
time off
time on your hands
time out
time out of mind
time out of time
time pattern
time policy
time quadrature
time rating
time recorder
time runs out
time scale
time schedule
time selling
time sense
time series
time service
time sharing
time sheet
time shrapnel
time sight
time signal
time signature
time space
time spirit
time stamp
time star
time study
time switch
time thrust
time ticket
time to burn
time to catch your breath
time to come
time to kill
time to spare
time train
time trial
time triangle
time value
time was
time waster
time without end
time zone
time's caravan
time's forelock
time-authorized
time-rent
time-rusty
time-saver
time-saving
time-scarred
time-served
time-server
time-serving
time-sharing
time-shrouded
time-space
time-spirit
time-table
time-taught
time-temperature
time-temperature curve
time-tested
time-tried
time-wasted
time-wasting
time-wearied
time-white
time-withered
time-worn
timeo Danaos et dona ferentes
times of old
times of yore
times past
times without number
times, the
timing chain
timing gears
timing pulse
timing screw
timing unit
timing valve
timothy grass
tin ash
tin bronze
tin calciner
tin can
tin chloride
tin cow
tin cry
tin crystal
tin cup
tin dichloride
tin dioxide
tin disease
tin ear
tin fish
tin foil
tin frame
tin glaze
tin god
tin hare
tin hat
tin kettle
tin liquor
tin lizzie
tin loaf
tin monoxide
tin opener
tin ore
tin oxide
tin pail
tin pan alley
tin pest
tin plague
tin plate
tin plater
tin pot
tin pulp
tin putty
tin pyrite
tin pyrites
tin salt
tin shop
tin smelter
tin snips
tin soldier
tin spirit
tin spirits
tin spot
tin stream
tin streamer
tin streaming
tin tack
tin tetrachloride
tin wash
tin washing
tin wedding
tin whistle
tin-bearing
tin-bottomed
tin-bound
tin-bounder
tin-capped
tin-colored
tin-covered
tin-eared
tin-edged
tin-filled
tin-foil
tin-foil paper
tin-foiler
tin-glass
tin-glazed
tin-handled
tin-kettle
tin-kettler
tin-lined
tin-mailed
tin-opener
tin-pan
tin-pan alley
tin-plate
tin-plate worker
tin-plated
tin-plating
tin-pot
tin-pottery
tin-potiness
tin-potty
tin-roofed
tin-stone
tin-tabled
tin-tack
tin-type
tin-whistle
tin-white
tina process
tincture of iodine
tincture of opium
tincture press
tinder fungus
tinder-cloaked
tinder-dry
tinea barbae
ting ware
ting-a-ling
tingle with excitement
tinhorn gambler
tink-a-tink
tinker mackerel
tinker up
tinker's dam
tinker's damn
tinker's damn, a
tinker's weed
tinkle-tinkle
tinkle-tankling
tinned dog
tinned goods
tinning stack
tinsel-bright
tinsel-clad
tinsel-covered
tinsel-embroidered
tinsel-paned
tinsel-slippered
tint block
tint for tant
tint meter
tint photometer
tint tool	
tiny bit
tip and run
tip cap
tip car
tip cheese
tip crane
tip in
tip off
tip over
tip plant
tip roast
tip roll
tip sled
tip slide
tip speed
tip table
tip the hat to
tip the scale
tip the scales
tip truck
tip van
tip wagon	
tip worm
tip your hand
tip-
tip-and-run
tip-cat
tip-crowning
tip-curved
tip-ear
ntip-finger
tip-in
tip-off
tip-on
tip-tap
tip-tilted
tip-top
tip-top table
tip-up
tip-up table
tippa-malku
tipper truck
tipper-off	
tippet grebe
tippet-scuffle
tipping center
tipping house
tippling house	
tipsy cake
tipsy key
tipsy-cake
tipsy-topsy
tire becker	
tire bender
tire borer
tire buffer
tire carrier
tire case
tire cement
tire chain
tire changer
tire chipper
tire clamp
tire compressor
tire cooler
tire core
tire cover
tire curler
tire dresser
tire examiner
tire fastener
tire filler
tire finisher
tire fitter
tire gauge
tire heater
tire holder
tire iron
tire lacing
tire lock
tire mold
tire molder
tire out
tire preservative
tire press
tire pressman
tire prier
tire protector
tire pump
tire rack
tire remover
tire repairman
tire retreader
tire roller
tire setter
tire shaper
tire shoe
tire shrinker
tire stamper
tire tape
tire to death
tire tool
tire tread
tire tube
tire turner
tire upsetter
tire valve
tire vulcanizer	
tire-bending
tire-changing
tire-filling
tire-heating
tire-inflating
tire-mile
tire-woman
tired and weary-laden
tired cliche
tired market
tired of
tired of living
tired out
tired to death
tired-armed
tired-eyed
tired-faced
tired-headed
tired-looking
tired-winged
tiresome work
tiring house
tiring irons
tiring maid
tiring room
tiring woman
tiring-house
tiring-irons
tiring-room	irlie-wirlie	irling pin	irly-toy	irra-lirra	tishah-b'ab
tissue culture
tissue fibrinogen
tissue fluid
tissue paper
tissue-building	tissue-changing
tissue-destroying	tissue-forming
tissue-paper
tissue-producing
tissue-secretng	tisty-tosty	tit babbler	tit drill	tit for tat	tit in the wringer	tit screw	tit-bit	tit-tat-toe	tit-up	tita root	titading or caption	titan crane	titan-
titanic acid	titanic anhydride	titanic iron ore	titanic oxide
titanium dioxide
titanium oxide
titanium white
titano-
titer test
tithe barn
tithe collector
tithe gatherer
tithe man
tithe pig
tithe proctor
tithe-collecting
tithe-free
tithe-paying
tithing-man
title bearer
title border
title catalog
title catalogue
title deed
title deeds and papers
title essay
title hero
title insurance
title letter
title lining
title of honor
title page
title role
title space
title type
title-bearing
title-deed
title-holding
title-hunting
title-mad
title-page
title-seeking
title-winning	itter-totter	ittle-tattle	ittle-tattled	ittle-tattler	ittle-tattling	itular bishop	ityre-tu	iz-woz
to a T
to a certain extent

to a certainty

to a degree

to a draw

to a fare-thee-well

to a fare-ye-well

to a fare-you-well

to a fault

to a finish

to a frazzle

to a great degree

to a great extent

to a hair

to a large extent

to a man

to a nicety

to a small degree

to a small extent

to a standoff

to a tee

to a tie

to a tittle

to a turn

to advantage

to all appearances

to all intents and purposes

to all seeming

to an extent

to an inch

to and fro

to any end

to atone for

to be brief

to be counted on

to be counted on your fingers

to be depended upon

to be desired

to be exact

to be expected

to be fair

to be had

to be on the road

to be precise

to be preferred

to be reckoned on

to be relied upon

to be seen

to be specific
to be sure
to be trusted
to beat the Dutch
to beat the band
to beat the deuce
to beat the devil
to bits
to blame
to boot
to cite an instance
to come
to come to the point
to completion
to crown all
to cut the matter short
to date
to death
to do
to everywhere
to excess
to explain
to extremes
to fit the pocketbook
to gain some private ends
to gild refined gold
to go
to good account
to good effect
to good purpose
to good use
to grin like a Cheshire cat
to guess
to hand
to have and to hold
to have sex
to hawse
to heel
to hell and back
to his executors and assigns
to his heirs
to his heirs and assigns
to illustrate
to infinity
to judge by appearances
to kalon
to keep
to landward
to lease
to leeward
to let
to little purpose
to make a dent
to make a guess
to make a long story short
to name an instance
to no extent
to no purpose
to nourish a viper in your bosom
to one side
to order
to paint the lily
to perfection
to pieces
to post on a diagonal
to profit
to prove the point
to relieve yourself
to retain
to rights
to say nothing of
to sell
to shards
to shreds
to smithereens
to some degree
to some extent
to some purpose
to spare
to speak of
to speak truthfully
to splinters
to state the fact
to state the truth
to such an extent
to tatters
to tell the truth
to that place
to the account of
to the amount of
to the backbone
to the bad
to the best of your ability
to the best of your belief
to the best of your knowledge
to the bitter end
to the brim
to the contrary
to the core of
to the crack of doom
to the credit of
to the death
to the edge of doom
to the end
to the end of time
to the end that
to the extreme
to the eye
to the fore
to the four corners of the earth
to the four winds
to the front
to the full
to the good
to the heart of
to the heirs of his body
to the highest degree
to the hilt
to the king's taste
to the last gasp
to the last trumpet
to the left
to the letter
to the life
to the limit
to the manner born
to the marrow
to the memory of
to the minute
to the nth degree
to the nth power
to the past
to the point
to the point of exhaustion
to the purpose
to the queen's taste
to the rear
to the right
to the same degree
to the second
to the side
to the skies
to the sky
to the teeth
to the top of your bent
to the tune of
to the utmost
to the wind
to the windward
to the wise
to the zenith
to this day
to this place
to throw a perfume on the violet
to what extent
to what place
to which place
to windward
to wit
to year and day
to your account
to your amazement
to your astonishment
to your cost
to your credit
to your delight
to your disgust
to your displeasure
to your face
to your fancy
to your fingertips
to your great glee
to your great surprise
to your health
to your heart's content
to your knowledge
to your liking
to your mind
to your satisfaction
to your shame
to your shame be it spoken
to your surprise
to your taste
to your utmost
to your way of thinking
to-
to-and-fro
to-and-fros
to-and-ko
to-arrive
to-be
to-break
to-burst
to-day
to-do
to-dos
to-draw
to-drive
to-fall
to-morn
to-morrow
to-name
to-night
to-rend
to-rights
to-side
to-tear
to-year
toad bug
toad grass
toad lily
toad orchis
toad rush
toad snatcher
toad spit
toad spittle
toad spot
toad stabber
toad sticker
toad's-mouth
toad-bellied
toad-blind
toad-eat
toad-eater
toad-fish
toad-flax
toad-frog
toad-green
toad-hating
toad-housing
toad-in-the-hole
toad-legged
toad-shaped
toad-spotted
toad-swollen
toadstool disease
toady to
tost color
tost list
tost rack
tost water
tobacco shed

tobacco shop

tobacco smoker

tobacco smoking

tobacco sprayer

tobacco spreader

tobacco stick

tobacco stopper

tobacco store

tobacco stripper

tobacco thrips

tobacco tongs

tobacco twister

tobacco user

tobacco water

tobacco wilt

tobacco worm

tobacco-abusing

tobacco-box

tobacco-box skate

tobacco-breathed

tobacco-growing

tobacco-pipe

tobacco-pipe clay

tobacco-plant

tobacco-sick

tobacco-smoking

tobacco-stained

tobacco-stemming

tobin's tube

tohira family

toboggon cap

toboggon slide

tobosa grass

toby jug

toc-toc

toccata form

tocharian a

tocharian b

tocher band

tocher good

toco-
tod stove

toddle along

toddy bird

toddy blossom

toddy cat

toddy ladle
toddy palm
toddy stick
toddy table
toddy tree
toe and heel
toe biter
toe box
toe calk
toe cap
toe clip
toe crack
toe dance
toe dancer
toe distance
toe dog
toe hardy
toe hold
toe kisser
toe kissing
toe pilling
toe rail
toe ring
toe the line
toe the mark
toe upon
toe wall
toe weight
toe-dance
toe-danced
toe-dancing
toe-drop
toe-in
toe-mark
toe-punch
toffee dipper
toffee-apple
toffee-nosed
tog out
tog up
toga virilis
together on
together with	toggle bolt	toggle chain
toggle harpoon	toggle hook
toggle iron
toggle joint
toggle motion
toggle press
toggle rail
toggle riveter
toggle switch
toggle-joint press
toggle-jointed
togt-rider
togt-riding
tohu-bohu
toil and moil
toil and trouble
toil-assuaging
toil-beaten
toil-bent
toil-exhausted
toil-hardened
toil-marred
toil-oppressed
toil-stained
toil-stricken
toil-tried
toil-weary
toil-won
toil-worn
toile de Jouy
toile de jouy
toilet article
toilet atomizer
toilet bottle
toilet bowl
toilet brush
toilet cabinet
toilet case
toilet cloth
toilet cup
toilet glass
toilet goods
toilet hardware
toilet mirror
toilet paper
toilet powder
toilet room
toilet seat
toilet service
toilet set
toilet soap
toilet sponge
toilet table
toilet tissue
toilet training
toilet water
toiling class
toisin d'or	
tok-tokkie
token book
token coin
token gesture
token money
token of esteem
token of remembrance
token payment
token punishment
token ring
token sheet
token silver
token strike
token vote
token-money
tol de rol
tol-
tol-de-rol
tol-lol
tol-lol-de-rol
tol-lol-lish
tolerance limits
toll agent
toll bait
toll bar
toll board
toll bridge
toll call
toll clerk
toll collector
toll corn
toll dish
toll farmer
toll highway
toll inspector
toll line
toll road
toll thorough
toll traverse
toll turn
toll-book
toll-dish
toll-free
toll-gatherer
toll-house
tollhouse cooky
tolling dog
tolling of the knell
tolosa wood	
tolu balsam
tolu resin
tolu tree
tolu-
toluene trichloride
toluene trifluoride
toluic acid
toluidine blue
toluidine red
toluric acid
toly radical
toly group
toly radical
tom and jerry
tom collins
tom hurry
tom pudding
tom tailor
tom thumb
tom tiddler's ground
tom turkey
tom-ax
tom-cod
tom-fool
tom-noddy
tom-tit
tom-toe
tom-tom
tom-trot
tomato aspic
tomato black rot
tomato blight
tomato bouillon
tomato can
tomato curly top
tomato eggplant
tomato fern
tomato fruitworm
tomato gall
tomato hamper
tomato hawk moth
tomato hornworm
tomato juice
tomato ketchup
tomato leaf blight
tomato leaf mold
tomato mosaic
tomato packer
tomato paste
tomato pulp
tomato puree
tomato red
tomato sauce
tomato scalder
tomato soup
tomato sphinx
tomato streak
tomato stripe
tomato transplanter
tomato trellis
tomato wilt
tomato worm
tomato yellows
tomato-colored
tomato-growing
tomato-leaf
tomato-washing
tomb bat
tomb house
tomb maker
tomb tower
tomb-bat
tomb-black
tomb-breaker
tomb-dwelling
tomb-making
tomb-paved
tomb-robbing
tomb-strewn
tomblike silence
tombstone marking
tomcat around
Tomkin post
tommy bar
tommy book
tommy day
tommy gun
tommy hole
tommy master
tommy noddy
tommy shop
tommy system
tommy-axe
tommy-gun
ton-foot
ton-force
ton-kilometer
ton-mile
ton-mileage
ton-up
tonal gap
tonal island
tone accent
tone arm
tone cluster
tone color
tone colour
tone control
tone deafness
tone down
tone gap
tone grammar
tone island
tone language
tone long
tone measurer
tone of voice
tone of your voice
tone painting
tone pattern
tone picture
tone poem
tone poet
tone poetry
tone quality
tone row
tone syllable
tone tester
tone up
tone wheel
tone with
tone-deaf
tone-full
tone-producing
tone-setter
tone-up
toned down
tong borer
tongue and groove
tongue bar
tongue bird
tongue bit
tongue blade
tongue bone
tongue compressor
tongue cover
tongue depressor
tongue fern
tongue fish
tongue graft
tongue grafting
tongue grass
tongue hero
tongue in cheek
tongue joint
tongue pipe
tongue shell
tongue sole
tongue swallowing
tongue tree
tongue truck
tongue twister
tongue work
tongue worm
tongue-and-groove joint
tongue-back
tongue-baited
tongue-banged
tongue-bitten
tongue-bladed
tongue-bound
tongue-dumb
tongue-flowered
tongue-free
tongue-front
tongue-garbled
tongue-gilt
tongue-grafted
tongue-halted
tongue-hammered
tongue-jangling
tongue-kill
tongue-lashed
tongue-lashing
tongue-leaved
tono-
tonsill-
tonsured cleric
too bad
too big
too big for your britches
too big for your shoes
too clever by half
too deep for
too early
too far
too few
too frugal
too funny for words
too killing for words
too late
too little
too many cooks
too many irons in the fire
too much
too much at once
too much for
too much of a good thing
too much with us
too precious for words
too soon
too soon off the mark
too-aged
too-anxious
too-big
too-bigness
too-bold
too-celebrated
too-confident
too-coy
too-dainty
too-devoted
too-early
too-earnest
too-familiar
too-fervent
too-forced
too-good
too-hectic
too-large
too-late
too-lateness
too-laudatory
tool heater
tool house
tool kit
tool lubricant
tool miller
tool oil
tool plane
tool post
tool press
tool rack
tool reclaimer
tool regrinding
tool repairer
tool rest
tool roll
tool set
tool sharpener
tool shed
tool shop
tool socket
tool spindle
tool stamper
tool stand
tool steel
tool storekeeper
tool subject
tool table
tool temper
tool tray
tool treating
tool truck
tool turner
tool wagon
tool whetter
tool-and-die maker
tool-cleaning
tool-cutting
tool-dresser
tool-dressing
tool-maker
tool-sharpening
tool-using
tooling up
toolroom lathe
tools and machinery
toot plant
toot your own horn
tooth and nail
tooth ax
tooth caliper
tooth chisel
tooth cleaner
tooth cough
tooth cress
tooth decay
tooth doctor
tooth edge
tooth fever
tooth filling
tooth for tooth
tooth forceps
tooth fungus
tooth gauge
tooth key
tooth mark
tooth ornament
tooth paste
tooth plane
tooth plugger
tooth powder
tooth puller
tooth pulp
tooth rail
tooth rash
tooth relic
tooth sac
tooth shell
tooth violet
tooth wheel
tooth wound
tooth-billed
tooth-bred
tooth-brush
tooth-chattering
tooth-drawer
tooth-extracting
tooth-leaved
tooth-marked
tooth-pulling
tooth-rounding
tooth-set
tooth-setting
tooth-shaped
tooth-shell
tooth-tempting
tooth-winged
toothache grass
toothache tree
toothbrush tree
toothed whale
toothed-billed
toothful grin
toothing plane
toothy-peg
tootle bug
tootsy-wootsies
tootsy-wootsy
top banana
top beam
top billing
top block
top boot
top boots
top brass
top burton
top cinder
top cleaner
top cow
top deck
top dog
top drawer
top dresser
top dressing
top executive
top flight
top floor
top gallery
top grafting
top hamper
top hat
top horse
top lift
top light
top line
top liner
top milk
top notch
top of house
top of the world
top off
top out
top part
top people
top price
top-road bridge
top-sawyer
top-secret
top-set
top-sew
top-shaped
top-shell
top-stone
top-timber
top-work
topaz quartz
topaz rock
topaz-colored
topaz-green
topaz-tailed
topaz-throated
topaz-tinted
topaz-yellow
toper's-plant
topgallant mast
topgallant sail
topgallant yard
tophus stone
topic of the day
topic sentence
topical anesthetic
topical outline
topknot pigeon
topo-
topographic chart
topographico-mythical
topological equivalence
topological group
topological invariant
topological space
topological transformation
topping lift
topping off
topping-off
topping-out course
topple down
topple over
tops, the
topsail schooner
topsail-tye	
topsy-turn
topsy-turnness
topsy-turvical
torsion bar
torsion basin
torsion curve
torsion galvanometer
torsion group
torsion head
torsion meter
torsion pendulum
torsion scale
torsion screw
torsion spasm
torsion spring
torsion-free group
torsional stress	
torso murder
tort-feasor
tortoise beetle
tortoise flower
tortoise plant
tortoise shell
tortoise that supports the earth
tortoise's pace
tortoise-core
tortoise-footed
tortoise-headed
tortoise-paced
tortoise-rimmed
tortoise-roofed
tortoise-shaped
tortoise-shell
tortoise-shell butterfly
tortoise-shell cat
tortoise-shell turtle
tortoiseshell turtle
torture the law to your own ends
torus palatinus	
tory democracy
tory-rory	
tosh nailing
tosh-up
toss and tumble
toss and turn
toss around
toss at
toss down
toss off
toss out
toss overboard
toss the head
toss together
toss up
toss your cookies
toss your drink
toss your hat in the ring
toss-up
tossed salad
tossing and turning
tossing-in
tot system
tot to
tot up
tot up to
total abstinence
total agreement
total approach
total attention
total bases
total blindness
total change
total commitment
total compensation
total darkness
total defeat
total depravity
total differential
total eclipse
total effect
total environment
total heat
total immersion
total impression
total impulse
total internal reflection
total loss
total loss only policy
total memory
total quantum number
total recall
total reflection
total self-assurance
total serialism
total situation
total skepticism
total theater
total up
total up to
total utility
total victory
total war
totalitarian government
totalitarian regime
totalitarian threat
totality of associations
totality of being
totality of references
totality of relations
totally absorbed
totally committed
totally ordered set
totally self-assured
tote bag

tote board
tote box
tote road
tote sack
tote shop
tote to
tote up
tote up to
totem animal
totem badge
totem kin
totem pole
toti-
totidem verbis
toties quotes
toto caelo
toto-
totter along
totter on the brink
totter to your fall
tottery in years	
totty-headed
touch a chord
touch a nerve
touch a nerve ending
touch a raw nerve
touch a soft spot
touch a sore spot
touch a sympathetic chord
touch a tender spot
touch and go
touch body
touch bottom
touch cerate
touch down
touch elbows with
touch football
touch judge
touch lightly
touch mark
touch method
touch needle
touch of conscience
touch off
touch on
touch on the raw
touch paper
touch reader
touch shoulders with
touch spot
touch system
touch the cap
touch the hat
touch the wind
touch to the quick
touch typewriter
touch typewriting
touch up
touch upon
touch upon in passing
touch upon lightly
touch where it hurts
touch writer
touch writing
touch your heart
touch-
touch-and-go
touch-box
touch-hole
touch-in goal
touch-in-goal
touch-in-goal line
touch-line
touch-me-not
touch-me-not-ish
touch-paper
touch-piece
touch-powder
touch-tackle
touch-type
touch-up
touched in the head
touched in the wind
touching down
tough as leather
tough break
tough cake
tough grind
tough guy
tough it out
tough job
tough lineup to buck
tough luck
tough nut to crack
tough out
tough pitch
tough pitch copper
tough policy
tough proposition
tough shit
tough tenacity of purpose
tough titty
tough-backed
tough-fibered
tough-fisted
tough-handed
tough-lived
tough-looking
tough-metaled
tough-minded
tough-mincedly
tough-mindedness
tough-muscled
tough-shelled
tough-sinewed
tough-skinned
tough-thonged
toujours perdrix
tour billion
tour conductor
tour de force
tour director
tour en l'air
tour guide
tour jete
tour of duty
toura grass
touring car
touring coupe
tourist car
tourist card
tourist center
tourist class
tourist court
tourist home
tourist trap
tourist-crammed
tourist-haunted
tourist-infested
tourist-laden
tourist-ridden
tourist-trod
tourist-trap
tourist-crammed
tourist-haunted
tourist-infested
tourist-laden
tourist-ridden
tourist-trodden
tourmaline pink
tourmaline tongs
tours en l'air
tous-les-mois	
tousled hair
tout a fait
tout a l'heure
tout au contraire
tout court
tout de suite
tout ensemble
tout le monde
tow boy
tow car
tow carder
tow carrier
tow cloth
tow hook
tow iron
tow mixer
tow post
tow sack
tow team
tow truck
tow wheel
tow-colored
tow-coloured
tow-feeder
tow-haired
tow-headed
tow-line
tow-made
tow-net
tow-netter
tow-netting
tow-path
tow-pung
tow-rope
tow-row
tow-spinning
towel gourd
towel horse
towel rack
towel rail
tower above
tower away
tower bastion
tower bolt
tower cap
tower chime
tower clock
tower cress
tower hill
tower house
tower light
tower mustard
tower of Pisa
tower of silence
tower of strength
tower over
tower owl
tower pound
tower projector
tower shell
tower stamp
tower telescope
tower wagon
tower window
tower-bearing
tower-capped
tower-crested
tower-crowned
tower-dwelling
tower-encircled
tower-flanked
tower-high
tower-mill
tower-razing
tower-shaped
tower-studded
tower-supported
tower-tearing
towering alps
towering heights
towering passion
towering rage
towing basin
towing bridle
towing lights
towing net
towing path
towing post
towing spar
town adjutant
town ball
town book
town boomer
town bridge
town bushel
town car
town church
town clerk
town clerkship
town council
town councilor
town cress
town crier
town dweller
town economy
town end
town foot
town forest
town gas
town guard
town hall
town head
town house
town jail
town life
town lot
town manager
town meeting
town mouse
town mutual
town officer
town park
town people
town place
town plan
town planner
town planning
town reeve
town row
town sickness
town soviet
town talk
town tallow
town top
town traveler
town wall
town way
town woman
town yard
town-absorbing
town-and-country suit
town-born
town-bound
town-bred
town-clerk
town-cress
town-dotted
town-dwelling
town-end
town-flanked
town-frequenting
town-girdled
town-goer
town-going
town-house
town-imprisoned
town-keeping
town-killed
town-living
town-looking
town-loving
town-made
town-major
town-meeting
town-pent
town-planning
town-sick
town-talk
town-tied
town-trained
town-weary
townhall clock
township line
township road
towrope horsepower
tox-
toxic goiter
toxic inflammation
toxic psychosis
toxic shock syndrome
toxic-
toxico-
toxin-anatoxin
toxin-antitoxin
toxin-antitoxin immunity
toxin-antitoxin immunization
toxo-
toxophore group
toy dog
toy manchester
toy poodle
toy shop
toy soldier
toy spaniel
toy terrier
toy with
toy-loving
toy-shop
toy-sized
tr-ties
tra-la
tra-la-la
trace buckle
trace chain
trace connector
trace down
trace element
trace fastener
trace holder
trace hook
trace horse
trace of an idea
trace out
trace over
trace spring
trace the derivation of
trace the origin of
trace to
trace-bearer
trace-galled
trace-high
tracer atom
tracer bullet
tracer element
tracer investigation
trache-
trachelo-
trachelo-occipital
tracheo-
trachio branchia
trachy-
tracing braid
tracing cloth
tracing paper
tracing thread
tracing wheel
track and field
track boat
track bolt
track brake
track chisel
track cleaner
track clip
track down
track drill
track edge
track gauge
track guard
track harness
track indicator
track inspector
track instrument
track jack
track level
track leveler
track lifter
track liner
track map
track mark
track meet
track of
track oven
track punch
track race
track record
track road
track rod
track roller
track scale
track shim
track shoe
traffic control signal
traffic cop
traffic court
traffic density
traffic director
traffic engineering
traffic in
traffic in women
traffic island
traffic jam
traffic law
traffic light
traffic manager
traffic of the stage
traffic officer
traffic pattern
traffic policeman
traffic post
traffic regulator
traffic sheet
traffic shifter
traffic signal
traffic squad
traffic tower
traffic warden
traffic with
traffic-bearing
traffic-choked
traffic-congested
traffic-furrowed
traffic-laden
traffic-mile
traffic-regulating
traffic-thronged
tragedy-proof
tragi-
tragi-comedy
tragi-comic
tragic drama
tragic flaw
tragic irony
tragic muse
tragic-comedy
trail after
trail along
trail angle
trail arms
trail away
trail bar
trail behind
trail bike
trail blazer
trail blazing
trail board
trail boss
trail breaker
trail bridge
trail car
trail cart
trail ferry
trail handspike
trail herd
trail net
trail of
trail plank
trail plate
trail rope
trail sight
trail spade
trail spur
trail-eye
trail-marked
trail-weary
trail-wise
trailer camp
trailer car
trailer court
trailer park
trailer truck
trailing arbutus
trailing edge
trailing evergreen
trailing fuchsia
trailing myrtle
trailing phlox
trailing vortex drag
trailing-point
trailing-point switch
train butcher
train caller
train conductor
train crew
train dispatcher
train flagman
train foreman
train guard
training school
training ship
training table
training tackle
training wall
trait of character
trait-complex
trajectory missile
tram crane
tram greaser
tram guard
tram load
tram plate
tram rail
tram rod
tram shed
tram-borne
tram-car
tram-line
tram-road
tram-traveling
trammel net
trammel wheel
trammel-net
tramp pick
tramp ship
tramp steamer
trample down
trample in the dust
trample on
trample out
trample under foot
trample underfoot
trample upon
trampling down
trance speaking
trance state
trance writing
tranche de bouf
tranche de lard
tranche de vie
tranquil-acting
tranquil-ization
tranquil-looking
tranquil-minded
trans-
trans-Adriatic
trans-African
trans-Algerian
trans-Alleghenian
trans-American
trans-Andean
trans-Andine
trans-Antarctic
trans-Apennine
trans-Arabian
trans-Asiatic
trans-Australian
trans-Austrian
trans-Balkan
trans-Baltic
trans-Canadian
trans-Carpathian
trans-Caspian
trans-Congo
trans-Cordilleran
trans-Danubian
trans-Egyptian
trans-Euphrates
trans-Germanic
trans-Grampian
trans-Himalayan
trans-Hispanic
trans-Iberian
trans-Indian
trans-Indus
trans-Iranian
trans-Iraq
trans-Jovian
trans-Liberian
trans-Libyan
trans-Manchurian
trans-Martian
trans-Mediterranean
trans-Mississippi
trans-Mississippian
trans-Mongolian
trans-Neptunian
trans-Niger
trans-Panamanian
trans-Paraguayan
trans-Persian
trans-Pyrenean
trans-Rhenish
trans-Sahara
trans-Saharan
transfer of property
transfer of right
transfer of training
transfer paper
transfer payment
transfer picture
transfer printing
transfer property
transfer resistance
transfer right
transfer stamp
transfer table
transferable vote
transference neurosis
transference number
transferred meaning
transferred sense
transferring machine
transfinite cardinal
transfinite number
transfinite ordinal
transformation myth
transformation range
transformation rule
transformation scene
transformation temperature
transformational grammar
transformational linguistics
transformational rule
transformer oil
transfuse the sense of
transfusion cell
transfusion tissue
transient boarder
transient cause
transient guest
transient lodging
transient state
transistor circuit
transistor hearing aid
transistor physics
transistor radio
transit camp
transit certificate
transit circle
transit compass
transit department
transit duty
transmission pump
transmission rope
transmission shaft
transmission sheaf
transmission stop system
transmission theory
transmission tower
transmission unit
transmission wheel
transmit warrant
transmit-receive unit
transmit-receiver
transmitter part
transmitter parts
transmitter receiver
transmitter signal
transmitter truck
transmitting antenna
transmitting set
transmitting station
transoceanic rocket
tansom adjuster
tansom bar
tansom butt
tansom catch
tansom center
tansom chain
tansom eye
tansom frame
tansom knee
tansom lift
tansom light
tansom operator
tansom plate
tansom stern
tansom window
tansom-sterned
tanson barrier
transparent color
transparent item
transparent substance
transparent things
transpartisan leadership
transpersonal therapy
transphysical science
transpiration current
transport caf
transport number
trap stair
trap tree
trap tuff
trap vent
trap weir
trap window
trap-ball
trap-cut
trap-door
trap-door spider
trap-nester
trapeze artist
trapeze dress
trapezoid ligament
trapezoidal rule
trash bag
trash barrel
trash can
trash farming
trash gatherer
trash ice
trash pile
trash shield
trash turner
traumatic epilepsy
traumatic fever
traumatic inflammation
traumatic memory
traumatic neurosis
traumatic shock
traumatic trace
traumato-
travail and bring forth
travel agency
travel agent
travel book
travel bureau
travel by air
travel by airline
travel by water
travel in a groove
travel in a rut
travel in space
travel literature
travel over
travel ration
travel shot
travel sickness
travel the open road
travel through
travel time
travel with
travel-bent
travel-broken
travel-changed
travel-disordered
travel-enjoying
travel-famous
travel-formed
travel-gifted
travel-infected
travel-jaded
travel-loving
travel-mad
travel-met
travel-opposing
travel-parted
travel-planning
travel-sated
travel-sick
travel-soiled
travel-spent
travel-stained
travel-tainted
travel-tattered
travel-tired
travel-toiled
travel-weary
travel-worn
traveler crane
traveler iron
traveler's check
traveler's-joy
traveler's-tree
traveling agent
traveling bag
traveling block
traveling carriage
traveling case
traveling clock
traveling crab
traveling derrick
traveling elevator
traveling examiner
traveling fellowship
traveling grate
traveling hoist
traveling inspector
traveling man
traveling salesman
traveling tinker
traveling trunk
traveling woman
traveling-head shaper
traveling-wave tube
traveller's cheque
traveller's joy
travelling salesman
travelling wave
traverse a yard
traverse board
traverse circle
traverse drill
traverse feed
traverse flute
traverse jury
traverse rail
traverse rod
traverse sailing
traverse shaper
traverse survey
traverse table
traverse track
traverse wind
traverse-table
traversing bridge
traversing circle
traversing crane
traversing gear
traversing jack
traversing mandrel
travois road
trawl board
trawl line
trawl net
trawl-net
tray agriculture
tray boy
tray cloth
tray conveyer
tray elevator
tray emptier
tray filler
tray frame
tray handle
tray maker
tray table
tray-shaped
tray-top table
treacle mold
treacle molding
treacle mustard
treacle sleep
treacle water
treacle wormseed
tread close upon
tread down
tread on
tread on air
tread on eggs
tread on the heels of
tread on your heels
tread on your toes
tread the boards
tread under foot
tread underfoot
tread upon
tread upon eggs
tread water
tread-softly
tread-wheel
treading down
treading mill
treading water
treads and risers
treason felony
treason-breeding
treason-canting
treason-hatching
treason-haunted
treason-sowing		treasure box
treasure chamber
	treasure chest
	treasure city
	treasure house
	treasure hunt
	treasure hunter
	treasure hunting
	treasure quest
	treasure room
	treasure seeker
treasure ship
treasure trove
treasure up
treasure up in the heart
treasure up in the memory
treasure-baited
treasure-bearing
treasure-filled
treasure-house
treasure-houses
treasure-laden
treasure-seeking
treasure-trove
treasurer general
treasury agent
treasury bench
treasury bill
treasury bond
treasury certificate
treasury check
treasury letter
treasury note
treasury of information
treasury of merits
treasury of the Church
treasury of words
treasury stock
treasury warrant
treat as routine
treat for sore eyes
treat gently
treat lightly
treat like dirt under your feet
treat of
treat to
treat unequally
treat well
treat with
treat with contempt
treat with disrespect
treat with indignity
treat with reserve
treatment room	
treaty maker
treaty making
treaty of peace	
treaty port
treaty reinsurance
treaty-bound
treaty-breaking
treaty-favoring
treaty-sealed
treaty-secured
treble best
treble block
treble bob
treble chance
treble clef
treble gear
treble purchase
treble staff
treble viol
treble-dated
treble-geread
treble-sinewed
tree agate
tree aloe
tree azalea
tree bear
tree belt
tree boa
tree bracket
tree cactus
tree calf
tree cat
tree celandine
tree class
tree clover
tree cobra
tree compass
tree cony
tree cotton
tree crab
tree creeper
tree cricket
tree crow
tree cult
tree cypress
tree dassie
tree dove
tree duck
tree farm
tree farmer
tree farming
tree feller
tree fender
tree fern
tree frog
tree fruit
tree fuchsia
tree germander
tree goldenrod
tree goose
tree guard
tree heath
tree holder
tree hopoe
tree hopper
tree house
tree houseleek
tree huckleberry
tree hyrax
tree insulator
tree ipomoea
tree kangaroo
tree lark
tree lawn
tree lily
tree line
tree looker
tree lotus
tree lucern
tree lungwort
tree lupine
tree mallow
tree marking
tree marten
tree martin
tree medic
tree mildew
tree milk
tree molasses
tree moss
tree mouse
tree myrtle
tree nymph
tree of Jesse
tree of heaven
tree of knowledge
tree of life
tree of sadness
tree onion
tree orchis
tree partridge
tree-clad
tree-climbing
tree-covered
tree-creeper
tree-crowned
tree-dotted
tree-dwelling
tree-embowered
tree-feeding
tree-fern
tree-form frame
tree-fringed
tree-garnished
tree-girt
tree-god
tree-goddess
tree-goose
tree-great
tree-haunting
tree-hewing
tree-inhabiting
tree-lined
tree-living
tree-locked
tree-loving
tree-marked
tree-moss
tree-planted
tree-pruning
tree-ripe
tree-run
tree-runner
tree-sawing
tree-shaded
tree-shaped
tree-skirted
tree-sparrow
tree-spraying
tree-surgeon
tree-toad
tree-top	
treeorted cross
trefoil arch
trefoil knot

trefoil-shaped
trek ox
trek wagon
trellis-bordered
trellis-covered
trellis-framed
trellis-shaded
trellis-sheltered
trellis-work
trellis-woven
tremble in the balance
tremble in your boots
tremble in your shoes
tremble like an aspen leaf
tremble on the verge
tremble to its fall
tremble to your fall
trembleuse cup
trembling in the balance
trembling poplar
trembling prairie
tremor disk
tremor of excitement	
trench albuminuria
trench artillery
trench back
trench bomb
trench cart
trench cavalier
trench coat
trench digger
trench disease	
trench fever
trench foot
trench gun
trench knife
trench mortar
trench mouth	
trench nephritis
trench plow
trench sickness
trench silo
trench warfare	
trench-plough
trencher attendant
trencher cap
trencher companion
trencher critic
trencher friend
trencher knight
trencher philosopher
trencher plate
trencher poetry
trencher rascal
trencher slave
trencher time
trencher-cap
trencher-fed
trencher-man
trenching plane
trenching spade
trend downward
trend of the times
trend upwards
trend-setter
trente et quarante
trente-et-quarante	tres bien
tres bon
tres vif
tres-tine
trespass board
trespass offering	tress-braiding
tress-encircled	tress-lifting	tress-plaiting	tress-shorn	tress-topped
trestle and table
trestle bed
trestle bent
trestle board
trestle bridge
trestle legs
trestle post
trestle table
trestle-tree
trey-ace
trez-tine	tri-
tri-city
tri-ester
tri-iodide
tri-mide
tri-pack
tri-personal
tri-ply
tri-tunnel	tria juncta in uno
triakis-
trial and error
trial at the bar
trial balance
trial balloon
trial brief
trial by battle
trial by jury
trial case
trial court
trial docket
trial engagement
trial examiner
trial frame
trial glasses
trial heat
trial horse
trial impression
trial judge advocate
trial jury
trial lawyer
trial lenses
trial marriage
trial order
trial package
trial piece
trial print
trial proof
trial run
trial sample
trial square
trial trip
trial-and-error
trials and tribulations
triammonium phosphate
triangle inequality
triangle of forces
triangle spider
triangle winding
triangle-leaved
triangle-shaped
triangular bandage
triangular matrix
triangular-shaped
triangulation stations
triangulato-ovate
triaryl methane dye
triatic stay
triaxial cable
triaxial speaker
tribasic sodium phosphate
tribo-
tribrom-
tribromoethyl alcohol
tribute money
tribute pitch
tric-trac
trice up
triceps surae
trich-
trichlor-
trichloroacetic acid
trichloroacetic acid aldehyde
trichloroacetic acid aldehyde
trichloromethyl chloroformate
trichlorophenoxyacetic acid
trichlorophenoxyacetic acid
tricho-
trick knee
trick of behavior
trick of eyesight
trick off
trick or treat
trick out
trick rider
trick score
trick up
trick valve
trick wheel
trick work
trick-o-the-loop
trick-or-treat
trick-or-treater
tricked out
trickle away
trickle charge
trickle charger
trickle-down theory
tricks of the trade
tricky spot
tricorder camcorder
tricot stitch
tricuspid insufficiency
tricuspid stenosis
tricuspid valve
tricyanide
tridarn cupboard
tritent bat
trident-shaped
tridyrmite-trachyte
tried and true
tried-and-trueness
triethyl orthoformate
trifacial neuralgia
trifid foot
trifle away
trifle away time
trifle with
trifle with the truth
trifles light as air
trifling amount
trifling matter
trifoliate orange
trig loop
trig up
trigeminal nerve
trigeminal neuralgia
trigesimo-secundo
trigger a mine
trigger circuit
trigger finger
trigger guard
trigger hair
trigger man
trigger mechanism
trigger plant
trigger pulse
trigger tube
trigger-happy
trigger-men
triggering pulse
triggering signals
trigonal trisoctahedron
trigon- 
trigonometric equation
trigonometric function
trihydric alcohol
trilateral symmetry
trilby hat
trillium family
trim angle
trim by the head
trim by the stern
trim controls
trim rail
trim sail
trim ship
trim size
trim tab
trim tabs
trim to
trim up
trim your sails to the breeze
trim-ankled
trim-bearded
trim-bodiced
trim-bodied
trim-cut
trim-dressed
trim-hedged
trim-kept
trim-looking
trim-suited
trim-swept
trim-up
trim-waisted
trimetric projection
trimmer arch
trimmer beam
trimmer condenser
trimmer joist
trimmer signal
trimming capacitor
trimming hatch
trimming hole
trimming joist
trimming machine
trimming press
trimming punch
trimming store
trimming tab
trimming tank
trine immersion
trinitro-
trinity column
trinity field
trinity lily
trinity violet
trinkum-trankum
trinomial name
trio sonata
triode-heptode
triple-pole
triple-rayed
triple-ribbed
triple-rivet
triple-roofed
triple-space
triple-stranded
triple-tailed
triple-terraced
triple-thread
triple-throated
triple-throw
triple-tiered
triple-tongue
triple-tongued
triple-tonguing
triple-toothed
triple-towered
triple-turned
triple-turreted
triple-veined
triple-wick
triplet lily
triplicate-pinnate
triplicate-ternate
triplo-
tripod camera
tripod of the Pythia
tripod puller
tripod table
tripped out
tripped up
tripping coil
tripping line
tripping link
tripping relay
tripping transformer
trippingly on the tongue
trismus cynicus
trisodium phosphate
tristimulus computer
tristimulus values
trit-trot
trite expression
trite joke
trite saying
trito-
triumph over
triumphal arch
trivalent carbon
trivet table
trivial affair
trivial name
trobar clus
trocar-shaped
trochlear nerve
trocho-
trodden flat
troilus butterfly
trois point
trojan horse
trojan war
troll plate
troll-drum
troll-madam	
trolley attendant
trolley block
trolley bracket
trolley bus
trolley car
trolley carrier
trolley catcher
trolley clip
trolley coach
trolley cord
trolley fork
trolley frog
trolley gong
trolley guard
trolley harp
trolley hoist
trolley insulator
trolley lace
trolley line
trolley locomotive
trolley maker
trolley pole
trolley rail
trolley retriever
trolley road
trolley shoe
trolley spring
trolley track
trolley tracking
trolley wagon
trolley wheel
troth-keeping
troth-plight
troth-telling
trotter cases
trotting race
trou madame
trou-de-coup
trou-de-loup
troubadour fiddle
troubadour poem
trouble maker
trouble man
trouble shooter
trouble shooting
trouble spot
trouble you for
trouble your head about
trouble yourself
trouble-bringing
trouble-free
trouble-giving
trouble-haunted
trouble-house
trouble-mirth
trouble-saving
trouble-shooter
trouble-tossed
trouble-worn
troubled mind
troubled thought
troubled waters	trough battery
trough conveyor
trough gutter
trough iron
trough keel
trough line
trough roof
trough room
trough shape
trough-shaped
trouser press
trouser presser
trouser suit
trouser-press
troutr bass
trout fishing
trout fly
tROUT lily
trout perch
trout shad
trout stream
tROUT-colored
tROUT-famous
tROUT-haunted
tROUT-perch
trowel bayonet
trowel-shaped
troy ounce
troy pound
troy weight
tRuANt officer
tRuANt school
tRuCE flag
tRuCE-hating
tRUce-seeking
tRuCE box
tRuCE car
tRuCE crop
tRuCE driver
tRuCE farm
tRuCE farmer
tRuCE farming
tRuCE garden
tRuCE gardener
tRuCE gardening
tRuCE horse
tRuCE house
tRuCE jobber
tRuCE shot
tRuCE system
tRuCE tractor
tRuCE trailer
tRuCEking house
tRuCEking shot
tRuCEle bed
tRuCEle to
tRuCEle-bed
tRuCeMAN's knot
tRuCEGn crawl
tRuCEGn stroke
tRuCE Christian
tRuCE air speed
tRuCE anomaly
tRuCE as gospel
true bearing
true being
true believer
true bill
true blue
true bug
true course
true faith
true fly
true fresco
true grit
true heading
true horizon
true inwardness
true jade
true laurel
true level
true lover's knot
true meaning
true north
true rib
true skin
true time
true to form
true to life
true to nature
true to reality
true to the facts
true to the letter
true to the spirit
true to type
true to your colors
true up
true vocal cord
true vocal cords
true-aimed
true-based
true-begotten
true-believing
true-blooded
true-blue
true-born
true-breasted
true-bred
true-dealing
true-derived
true-devoted
true-disposing
true-divining
true-eyed
true-false
true-false test
true-felt
true-grained
true-hearted
true-heartedness
true-heroic
true-life
true-love
true-love knot
true-lover's knot
true-made
true-mannered
true-meaning
true-meant
true-noble
true-paced
true-ringing
true-run
true-seeming
true-souled
true-speaking
true-spelling
true-spirited
true-spoken
true-stamped
true-strung
true-sublime
true-sweet
true-thought
true-to-lifeness
true-toned
true-tongued
truelove knot
trump and solemn heraldry
trump card
trump of doom
trump signal
trump up
trump up a charge
trump-poor
trumped-up
trumped-up charge
trumped-up story
trumpet animalcule
trumpet arch
trumpet ash
trumpet blare
trumpet blast
trumpet call
trumpet conch
trumpet creeper
trumpet daffodil
trumpet fish
trumpet flower
trumpet fly
trumpet forth
trumpet honey suckle
trumpet honeysuckle
trumpet hypha
trumpet lily
trumpet major
trumpet marine
trumpet milkweed
trumpet narcissus
trumpet of doom
trumpet plant
trumpet reed
trumpet seaweed
trumpet shell
trumpet sound
trumpet tree
trumpet turning
trumpet vine
trumpet-blowing
trumpet-creeper family
trumpet-hung
trumpet-leaf
trumpet-leaves
trumpet-loud
trumpet-shaped
trumpet-toned
trumpet-tongued
trumpet-tree
trumpet-voiced
trumpeter fish
trumpeter muscle
trumpeter perch
trumpeter swan
trumpeter whiting
truncated pyramid
trundle bed
trundle-bed
trundle-tail
trust busting
trust certificate
trust company
trust corporation
trust deed
trust fund
trust implicitly
trust in
trust in God
trust indenture
trust institution
trust maker
trust mortgage
trust officer
trust receipt
trust territory
trust to
trust to chance
trust to luck
trust unto
trust upon
trust your word
trust-bolstering
trust-breaking
trust-controlled
trust-controlling
trust-ingly
trust-regulating
trust-ridden
trust-winning
trusted friend
trustee account
trustee bank
trustee in bankruptcy
trustee mortgage bond
trustee process
trustee savings bank
trustee security
trustee stock
trusting soul
trusty friend
trusty sword
truth claim
truth drug
truth in action
truth lover
truth or consequences
truth seeker
truth serum
truth set
truth speaker
truth table
truth to life
truth to nature
truth to the letter
truth-armed
truth-bearing
truth-cloaking
truth-cowed
truth-declaring
truth-denying
truth-desiring
truth-destroying
truth-dictated
truth-filled
truth-function
truth-functional
truth-functionally
truth-guarding
truth-instructed
truth-led
truth-loving
truth-mocking
truth-passing
truth-perplexing
truth-revealing
truth-seeking
truth-shod
truth-speaking
truth-telling
truth-tried
truth-value
truth-writ
try a case
try again
try and
try and make me
try and try
try and try again
try anything once
try cock
try conclusions
try conclusions with
try for
try for a miracle
try for point
try gun
try hard
try hole
try in all its phases
try it
try it for size
try it on
try on
try on for size
try one
try one another
try out
try out for
try plane
try square
try the chance
try the patience
try to
try to be in two places at once
try to bribe
try to catch the wind in a net
try to fetch water in a sieve
try to find
try to gather grapes from thorns
try to get blood from a turnip
try to get figs from thistles
try to make bricks from straw
try to make cheese of chalk
try to reach
try to recall
try to weave a rope of sand
try up
try you out
try your best
try your damndest
try your darndest
try your fortune
try your hand
try your luck
try your strength
try your utmost
try-
try-on
try-pot
tryer-out
trying for
trying plane
trypaflavine neut
tuberculosis of the intestines

tuberculosis of the larynx

tuberculous arthritis

tuberculous meningitis

tuberculous rheumatism

tuberous root

tuberous-rooted

- tubi-

- tubo-

- tubo-uterine

- tubular bells

- tubular floret

- tubular girder

- tubular goods

- tubular skate

- tubular-flowered

- tubular-pneumatic organ

- tubuli-

- tuck away

- tuck box

- tuck in

- tuck in a reef

- tuck net

- tuck plate

- tuck pointer

- tuck pointing

- tuck seine

- tuck shop

- tuck your tail

- tuck-in

- tuck-net

- tuck-out

- tuck-point

- tuck-pointed

- tuck-pointer

- tuck-shop

- tuckaway table

- tucked up

- tucker bag

- tucker out

- tucker-bag

- tucker-box

- tucker-in

- tuckered out

- tucky lily

- tuco tuco

- tuco-tuco

- tuco-tucos
tum out
tum-ti-tum
tum-tum
tumble car
tumble cart
tumble drier
tumble for
tumble grass
tumble home
tumble mustard
tumble on
tumble through the mind
tumble to
tumble-
tumble-down
tumbledown shack
tumbler bearing
tumbler cart
tumbler cup
tumbler drier
tumbler gear
tumbler gearing
tumbler pigeon
tumbler switch
tumbler-shaped
tumbling barrel
tumbling bay
tumbling box
tumbling rod
tumbling shaft
tumbling verse
tumbling-
tumbu fly
tump-line
tumulus scab
tun of flesh
tun pail
tun shell
tun-bellied
tun-dish
tuna cheese
tuna clipper
tuna fish
tuna fish salad
tuna oil
tuna salad sandwich
tune down
tune in
tune off
tune out
tune up
tune your lyre
tune-skilled
tune-up
tuned antenna
tuneful Nine
tuner-inner	
tung oil	
tung tree	
tung-oil	
tung-oil tree	
tungst-
tungsten lamp	
tungsten ocher	
tungsten steel	
tungsten trioxide	
tungstic acid	
tunic flower	
tunica palmata	
tuning bar	
tuning capacitor	
tuning coil	
tuning condenser	
tuning cone	
tuning fork	
tuning hammer	
tuning hole	
tuning horn	
tuning key	
tuning lever	
tuning peg	
tuning pin	
tuning pipe	
tuning slide	
tuning wrench	
tunking fit	
tunna smjors	
tunnel anemia	
tunnel diode	
tunnel disease	
tunnel effect	
tunnel head	
tunnel kiln	
tunnel miner	
tunnel net	
tunnel of love
tunnel of time
tunnel pit
tunnel right
tunnel shaft
tunnel sickness
tunnel stern
tunnel vault
tunnel vision
tunnel weaver
tunnel worm
tunnel-boring
tunnel-shaped
tunny oil
tuno gum	
tup lamb
tup-headed
tupelo gum
tupi-guarani
tupi-guaranian
tupenny-hapenny	
turban buttercup
turban lily
turban sheep
turban squash
turban stone
turban toque
turban-crested
turban-crowned
turban-shaped
turbary hog
turbidity current
turbine centrifugal pump
turbine interrupter
turbine nozzle
turbine steamer
turbine ventilator
turbine-driven
turbine-engined
turbine-propelled
turbo-
turbo-electric
turbo-prop
turbo-propeller engine
turbo-propeller plane
turbo-ram-jet engine
turbo-ramjet engine
turbojet engine
turbojet propulsion
turboprop engine
turboprop-jet
turboprop-jet engine
turboram-jet
turboramjet engine	turbulent flow
turco-
turf accountant
turf ant
turf cake
turf hog
turf moss	turf out
turf webworm
turf-boring	turf-bound
turf-built
turf-clad
turf-covered
turf-cutting
turf-digging
turf-forming
turf-grown
turf-laid
turf-roofed
turf-spread
turf-walled
turfing daisy
turgor pressure
turk's cap
turk's head
turkey beard
turkey berry
turkey bird
turkey blossom
turkey bur
turkey buzzard
turkey call
turkey carpet
turkey claw
turkey cock
turkey corn
turkey fig
turkey foot
turkey gnat
turkey gobbler
turkey grape
turkey grass
turkey hen
turkey louse
turkey mullein
turkey oak
turkey pea
turkey pod
turkey red
turkey shoot
turkey stone
turkey trot
turkey vulture
turkey-cock
turkey-feather
turkey-feather fucus
turkey-foot
turkey-hen
turkey-trot
turkey-trotted
turkey-trotting
turkey-worked
turkish bath
turkish coffee
turkish delight
turkish tobacco
turkish towel
turmeric paper
turmeric root
turmeric tree
turn a blind eye
turn a blind eye to
turn a cold shoulder to
turn a cold shoulder upon
turn a corner
turn a deaf ear
turn a deaf ear to
turn a hair
turn a hand
turn a penny
turn a pirouette
turn a pot
turn a somersault
turn a willing ear
turn about
turn acid
turn against
turn an honest penny
turn and turn about
turn around
turn around your little finger
turn aside
turn aside from
turn aside provocation
turn ass over elbows
turn attention to
turn away
turn away from
turn awry
turn back
turn back the clock
turn bench
turn blue in the face
turn bolt
turn bottom side up
turn bridge
turn button
turn cloak
turn color
turn down
turn file
turn for
turn from
turn gray
turn green
turn head over heels
turn in
turn in an alarm
turn in your badge
turn in your uniform
turn indicator
turn informer
turn inside out
turn into
turn into money
turn into the opposite
turn inward
turn it off
turn king's evidence
turn loose
turn meter
turn of events
turn of expression
turn of mind
turn of phrase
turn of the cards
turn of the screw
turn of the table
turn of the tide
turn of the wheel
turn of thought
turn of work
turn off
turn off the juice
turn off the light
turn on
turn on a dime
turn on her heel
turn on the juice
turn on the light
turn on the offensive
turn on the tap
turn on to
turn on your heel
turn one's back on
turn one's back upon
turn out
turn out bag and baggage
turn out doors
turn out of doors
turn out of house and home
turn out that way
turn out to be
turn out well
turn over
turn over a new leaf
turn over in the mind
turn over the leaves
turn over your knees
turn pale
turn queen's
turn queen's evidence
turn red
turn round
turn sign
turn sour
turn state's evidence
turn stitch
turn swords into plowshares
turn tail
turn the back upon
turn the balance
turn the corner
turn the edge of
turn the eyes
turn the mind to
turn the other cheek
turn the point of
turn the scale
turn the scales
turn the shoulder
turn the stomach
turn the tables
turn the tables on
turn the tables upon
turn the thoughts to
turn the tide
turn the trick
turn thumbs down on
turn to
turn to a lake
turn to a sea
turn to account
turn to good account
turn to naught
turn to nothing
turn to profit
turn to stone
turn to the right-about
turn to the side
turn to use
turn to your advantage
turn topsy-turvy
turn traitor
turn turtle
turn under
turn up
turn up missing
turn up one's face
turn up trumps
turn up your nose at
turn up your toes
turn upon
turn upon your heel
turn upside down
turn west
turn white
turn yellow
turn you away
turn you on
turn your attention from
turn your back on
turn your back upon
turn your coat
turn your face to the wall
turn your hand to
turn your head
turn your stomach
turn your tail upon
turn your tracks to
turn-
turn-and-bank indicato
turn-and-bank indicator
turn-and-slip indicator
turn-buckle
turn-crowned
turn-down
turn-furrow
turn-hall
turn-in
turn-key
turn-key job
turn-out
turn-over
turn-penny
turn-round
turn-server
turn-serving
turn-sick
turn-sickness
turn-table
turn-to
turn-tree
turn-under
turn-up
turned around
turned comma
turned on
turned period
turned-back
turned-down
turned-in
turned-off
turned-on
turned-out
turned-over
turned-up
turner hall
turner harp
turner hood
turner-off
turning arbor
tuming around
tuming away
tuming back
tuming backwards
tuming basin
tuming chisel
tuming circle
tuming down
tuming engine
tuming front to back
tuming gouge
tuming head over heels
tuming inside out
tuming into
tuming inward
tuming movement
tuming on
tuming out
tuming over
tuming over in the mind
tuming pendant
tuming piece
tuming plow
tuming point
tuming rest
tuming saw
tuming side to side
tuming spur
tuming square
tuming traitor
tuming upside down
tuming upside-down
tuming value
tumip aphid
tumip bean
tumip cabbage
tumip flea
tumip flea beetle
tumip fly
tumip foot
tumip grass
tumip jack
tumip leaf miner
tumip louse
tumip maggot
tumip nigger
tumip parsnip
tumip radish
turquoise-tinted
turret angle-rack tool
turret captain
turret clock
turret crew
turret cutter
turret deck
turret drier
turret drill
turret gun
turret lathe
turret ship
turret slide tool
turret spider
turret steamer
turret taper tool
turret-deck vessel
turret-decked vessel
turret-shaped
turret-topped
turret-turning
turtle cowrie
turtle crawl
turtle deck
turtle grass
turtle green
turtle heart
turtle peg
turtle pegger
turtle pegging
turtle plate
turtle shell
turtle soup
turtle stone
turtle-back
turtle-back shooting
turtle-billing
turtle-dove
turtle-footed
turtle-haunted
turtle-mouthed
turtle-neck
turtle-winged
turtleback scale
turtleneck sweater
tusk shell
tusk tenon	ussah silk
tussock grass
tussock moth
tussock sedge
tussock-grass
tut money
tut-mouthed
tut-tut
tut-tutted
tut-tutting
tutelar genius
tutelar god
tutelar spirit
tutelary genius
tutelary god
tutelary spirit
tutor-sick
tutorial system
tutti passage
tutti-frutti
tuxedo coat
tuxedo jacket
tuyere arch
tuyere box
tuyere notch
tw-
twae-three
twain cloud
twaite shad
twanging nerves
twattle-basket
tweak the devil's nose
tweak the nose
tweed-clad
tweed-covered
tweed-suited
tweedle-
tween-brain
tween-deck
tween-watch
tweet-tweet
tweeter-woofer
tweezer-case
twelfhynde man
twelfth day
twelfth man
twelfth night
twelfth-cake
twelfth-day
twelfth-night
twelfth-second
twelve dozen
twelve men in a box
twelve o'clock
twelve-acre
twelve-armed
twelve-banded
twelve-bore
twelve-button
twelve-candle
twelve-carat
twelve-cut
twelve-day
twelve-dram
twelve-feet
twelve-foot
twelve-footed
twelve-fruited
twelve-gated
twelve-gauge
twelve-gemmed
twelve-handed
twelve-hole
twelve-horsepower
twelve-hour
twelve-inch
twelve-labor
twelve-legged
twelve-line
twelve-mile
twelve-mile limit
twelve-minute
twelve-monthly
twelve-note row
twelve-o'clock
twelve-oared
twelve-ounce
twelve-part
twelve-pint
twelve-point
twelve-point sphere
twelve-pound
twelve-pounder
twelve-rayed
twelve-seated
twelve-shilling
twelve-sided
twelve-spoke
twelve-spotted
twelve-starred
twelve-stone
twelve-stranded
twelve-thread
twelve-tone
twelve-tone row
twelve-tone technique
twelve-towered
twelve-verse
twelve-wired
twelve-word
twelve-year
twelve-year-old
twelveyndyde man
twentieth man
twentieth-century
twenty questions
twenty-acre
twenty-carat
twenty-centimeter
twenty-cubit
twenty-day
twenty-dollar
twenty-dollar bill
twenty-dollar gold piece
twenty-eight
twenty-eighth
twenty-fifth
twenty-first
twenty-five
twenty-five cents
twenty-five percent
twenty-foot
twenty-four
twenty-four carat
twenty-four-hour
twenty-fouromo
twenty-fourmos
twenty-fourth
twenty-gauge
twenty-grain
twenty-gun
twenty-hour
twenty-inch
twenty-knot
twenty-line
twice-accepted
twice-accomplished
twice-accorded
twice-accused
twice-achieved
twice-acknowledged
twice-acquired
twice-acted
twice-adapted
twice-adjourned
twice-adjusted
twice-admitted
twice-adopted
twice-affirmed
twice-agreed
twice-alarmed
twice-alleged
twice-allied
twice-altered
twice-amended
twice-angered
twice-announced
twice-answered
twice-anticipated
twice-appealed
twice-appointed
twice-appropriated
twice-approved
twice-arbitrated
twice-arranged
twice-assaulted
twice-asserted
twice-assessed
twice-assigned
twice-associated
twice-assured
twice-attained
twice-attempted
twice-attested
twice-audited
twice-authorized
twice-avoided
twice-baked
twice-balanced
twice-bankrupt
twice-baptized
twice-barred
twice-bearing
twice-beaten
twice-begged
twice-begun
twice-beheld
twice-beloved
twice-bent
twice-bereaved
twice-bereft
twice-bested
twice-bestowed
twice-betrayed
twice-bid
twice-bit
twice-blamed
twice-blessed
twice-blooming
twice-blowing
twice-boiled
twice-born
twice-borrowed
twice-bought
twice-branded
twice-broken
twice-brought
twice-buried
twice-called
twice-canceled
twice-canvassed
twice-captured
twice-carried
twice-caught
twice-censured
twice-challenged
twice-changed
twice-charged
twice-cheated
twice-chosen
twice-cited
twice-claimed
twice-collected
twice-commenced
twice-commended
twice-committed
twice-competing
twice-completed
twice-compromised
twice-concealed
twice-conceded
twice-discarded
twice-discharged
twice-discontinued
twice-discounted
twice-discovered
twice-disgraced
twice-dismissed
twice-dispatched
twice-divided
twice-divorced
twice-doubted
twice-drafted
twice-drugged
twice-dyed
twice-earned
twice-effectuated
twice-elected
twice-enacted
twice-encountered
twice-endorsed
twice-engaged
twice-enlarged
twice-ennobled
twice-essayed
twice-evaded
twice-examined
twice-excelled
twice-excused
twice-exempted
twice-exiled
twice-exposed
twice-expressed
twice-extended
twice-fallen
twice-false
twice-favored
twice-felt
twice-filmed
twice-fined
twice-folded
twice-fooled
twice-forgiven
twice-forgotten
twice-forsaken
twice-fought
twice-foul
twice-fulfilled
twice-gained
twice-garbed
twice-given
twice-granted
twice-grieved
twice-guilty
twice-handicapped
twice-hazarded
twice-healed
twice-heard
twice-helped
twice-hidden
twice-hinted
twice-hit
twice-honored
twice-humbled
twice-hurt
twice-identified
twice-ignored
twice-imposed
twice-improved
twice-incensed
twice-increased
twice-indulged
twice-infected
twice-injured
twice-insulted
twice-insured
twice-invented
twice-invited
twice-issued
twice-jailed
twice-judged
twice-kidnapped
twice-knighted
twice-laid
twice-lamented
twice-leagged
twice-learned
twice-left
twice-lengthened
twice-levied
twice-liable
twice-listed
twice-loaned
twice-lost
twice-mad
twice-maintained
twice-marketed
twice-married
twice-mastered
twice-mated
twice-measured
twice-mated
twice-mended
twice-mentioned
twice-merited
twice-met
twice-missed
twice-mistaken
twice-modified
twice-mortal
twice-mourned
twice-named
twice-necessitated
twice-needed
twice-negligent
twice-negotiated
twice-nominated
twice-noted
twice-notified
twice-numbered
twice-objected
twice-obligated
twice-occasioned
twice-occupied
twice-offended
twice-offered
twice-offset
twice-omitted
twice-opened
twice-opposed
twice-ordered
twice-originated
twice-orphaned
twice-overdue
twice-overtaken
twice-overthrown
twice-owned
twice-paid
twice-painted
twice-pardoned
twice-parted
twice-partitioned
twice-patched
twice-pensioned
twice-permitted

twice-persuaded

twice-perused

twice-petitioned

twice-pinnate

twice-placed

twice-planned

twice-pleased

twice-pledged

twice-poisoned

twice-pondered

twice-posed

twice-postponed

twice-praised

twice-predicted

twice-preferred

twice-prepaid

twice-prepared

twice-prescribed

twice-preserved

twice-pretended

twice-prevailing

twice-prevented

twice-printed

twice-procured

twice-professed

twice-prohibited

twice-promised

twice-promoted

twice-proposed

twice-prosecuted

twice-protected

twice-proven

twice-provided

twice-provoked

twice-published

twice-punished

twice-pursued

twice-qualified

twice-questioned

twice-quoted

twice-raided

twice-re-elected

twice-read

twice-realized

twice-rebuilt

twice-recognized
twice-sacrificed
twice-said
twice-salvaged
twice-sampled
twice-sanctioned
twice-saved
twice-scared
twice-scattered
twice-sold
twice-scolded
twice-scorned
twice-sealed
twice-searched
twice-secreted
twice-secured
twice-seen
twice-seized
twice-selected
twice-sensed
twice-sent
twice-sentenced
twice-separated
twice-served
twice-set
twice-settled
twice-severed
twice-shamed
twice-shared
twice-shelled
twice-shelved
twice-shielded
twice-shot
twice-shown
twice-sick
twice-silenced
twice-sketched
twice-soiled
twice-sold
twice-soled
twice-solicited
twice-solved
twice-sought
twice-sounded
twice-spared
twice-specified
twice-spent
twice-sprung
twice-stabbed
twice-staged
twice-stated
 twice-stolen
 twice-stopped
 twice-straightened
 twice-stress
 twice-stretched
 twice-stricken
 twice-struck
 twice-subdued
 twice-subjected
 twice-subscribed
 twice-substituted
 twice-sued
 twice-suffered
 twice-sufficient
 twice-suggested
 twice-summoned
 twice-suppressed
 twice-surprised
 twice-surrendered
 twice-suspected
 twice-suspended
 twice-sustained
 twice-sworn
 twice-tabled
 twice-taken
 twice-tamed
 twice-taped
 twice-tardy
 twice-taught
 twice-tempted
 twice-tendered
 twice-terminated
 twice-tested
 twice-thanked
 twice-thought
 twice-threatened
 twice-thrown
 twice-tied
 twice-told
 twice-told tale
 twice-torn
 twice-touched
 twice-trained
 twice-transferred
 twice-translated
 twice-transported
 twice-treated
twig pruner
twig rush
twig-formed
twig-green
twig-lined
twig-strewn
twig-suspended
twig-wrought
twilight arch
twilight blue
twilight home
twilight of the gods
twilight of your days
twilight parallel
twilight sleep
twilight state
twilight vision
twilight war
twilight zone
twilight-enfolded
twilight-hidden
twilight-hushed
twilight-loving
twilight-seeming
twilight-tinctured	will weave	will-woven	win band mill	win bed	win bill	win boat	win equatorial	win mill	win screws	win ship	win sister	win sisterhood	win spinnaker rig	win stock	win tail wheel	win tap	win telescope	win town	win triode	win valve	win-balled	win-bearing	win-begot
twin-blossomed
twin-born
twin-brother
twin-cylinder
twin-engine
twin-engined
twin-engines
twin-existent
twin-float
twin-forked
twin-gun
twin-headed
twin-hued
twin-jet
twin-leaf
twin-leaved
twin-leaves
twin-lens
twin-lens camera
twin-lens reflex
twin-lens reflex camera
twin-light
twin-motor
twin-motored
twin-named
twin-peaked
twin-power
twin-prop
twin-roller
twin-screw
twin-set
twin-sister
twin-six
twin-spiked
twin-spired
twin-spot
twin-striped
twin-tailboom jet
twin-towered
twin-towned
twin-tractor
twin-wheeled
twin-wire
twine around
twine binder
twine braider
twine cutter
twine holder
twine polisher
twine reeler
twine spinner
twine-binding
twine-bound
twine-colored
twine-spinning
twine-toned
twine-twisting
twinge of conscience
twingle-twangle
twinkle of an eye
twinkling of an eye
twinning axis
twinning law
twinning machine
twist and turn
twist around your little finger
twist belting
twist bit
twist drill
twist grip
twist stitch
twist the knife
twist the law to your own ends
twist the lion's tail
twist the meaning
twist the meaning of
twist the words
twist your arm
twisted eglantine
twisted stomach worm
twisted-horn
twisted-stalk
twisting course
twisting machine
twisting pair
twisting path
twisting the lion's tail
twisty-wisty
twit-twat	witch grass	witch of conscience	witch road	twite finch	witter-twatter
twittle-twattle	wizzle-twig
two bits
two cents
two dozen
two estates
two fifths
two hundred
two leg
two o'clock
two of a kind
two old
two old cat
two or three
two pair
two shakes
two shakes of a lamb's tail
two times
two weeks
two whoops and a holler
two-a-cat
two-alarm fire
two-along
two-and-a-half stripes
two-and-one-half striper
two-angle
two-arched
two-armed
two-aspect
two-barred
two-barreled
two-base
two-base hit
two-beat
two-bedded
two-bid
two-bill
two-bit
two-bit politician
two-blade
two-bladed
two-block
two-blocks
two-bodied
two-bodies
two-bodies problem
two-bond
two-bottle
two-bottom plow
two-branched
two-bristled
two-bushel
two-by-four
two-capsuled
two-celled
two-cent
two-centered
two-chamber
two-chambered
two-charge
two-charge rate
two-circle
two-circuit
two-circuit switch
two-cleft
two-coat
two-color
two-color press
two-color printing
two-colored
two-compartment vessel
two-component
two-course system
two-cycle
two-cylinder
two-day
two-deck
two-deck vessel
two-decker
two-dimensional
two-dimensional wave
two-dimensionality
two-dimensionally
two-dimensioned
two-dollar
two-dollar bill
two-dollar broker
two-dollar word
two-eared
two-edged
two-em
two-em dash
two-ended
two-eye
two-eyed
two-eyes
two-face
two-faced
two-level
two-life
two-light
two-line
two-line octave
two-lined
two-lipped
two-lobed
two-lunged
two-man
two-man tent
two-mast
two-masted
two-master
two-membered
two-mile
two-minded
two-minute
two-minute gun
two-monthly
two-name
two-name paper
two-named
two-necked
two-needle
two-nerved
two-oar
two-oared
two-ounce
two-pair
two-part
two-part harmony
two-part time
two-parted
two-party
two-party system
two-pass
two-peaked
two-petaled
two-phase
two-phaser
two-piece
two-piece bow
two-piece suit
two-pile
two-piled
two-pin escapement
two-pipe
two-place
two-platoon
two-platoon system
two-plowed
two-ply
two-point
two-point landing
two-pointic
two-pole
two-position
two-pot screamer
two-pound
two-principle
two-pronged
two-quart
two-rail
two-ranked
two-rate
two-rayed
two-revolution
two-roomed
two-row
two-rowed
two-seated
two-seater
two-seeded
two-shafted
two-shanked
two-shaped
two-sheave
two-shilling
two-shillingly
two-shillingness
two-shot
two-sided
two-sidedness
two-soused
two-speed
two-spined
two-spored
two-spot
two-spotted
two-stage rocket
two-stall
two-stalled
two-star
two-star general
two-step
two-step rocket
two-stepped
two-stepping
two-sticker
two-storied
two-story
two-stream
two-stringed
two-striped
two-striper
two-stroke
two-stroke cycle engine
two-stroke-cycle
two-suit
two-suiiter
two-syllable
two-tailed test
two-teeth
two-thirder
two-thirds
two-three
two-throw
two-time
two-time loser
two-timed
two-timer
two-timing
two-tined
two-toed
two-toed anteater
two-tone
two-toned
two-tongued
two-toothed
two-topped
two-topsail schooner
two-track
two-tusked
two-twisted
two-unit
two-up
two-valved
two-volume
two-way
two-way communication
two-way radio
two-wheel
two-wheeled
two-wheeler
two-wicked
two-winged
two-winged fly
two-woods
two-word
two-year
two-year college
two-year-old
twofold tackle
twopenny grass
twopenny-halfpenny
twyhynde man
ty block
ty ing up
tylo-
tymp stick
tympan frame
tympan sheet
tympanic bone
tympanic cavity
tympanic membrane
tympano-
type A
type AB
type B
type O
type bar
type block
type body
type cabinet
type case
type caster
type characteristic
type class
type cutter
type cutting
type face
type founder
type founding
type foundry
type gauge
type genus
type lice
type locality
type matter
type measure
type metal
typewriter stand
typewriter table
typewriter type
typewriting telegraph
typh fever
typhlo-
typhlo-ureterostomy
typho-
typhoid bacillus
typhoid carrier
typhoid fever
typhoid spine
typhus fever
typical case
typical example
typical man
typing machine
typing paper
typist's error
typo-
typographical error
tyranitize over
tyrranny of the majority
tyrant bird
tyrant flycatcher
tyrant sparing none
tyrant wren
tyrant-bought
tyrant-hating
tyrant-quelling
tyrant-ridden
tyrant-scourging
tyrian purple
tyrolean hat
tyrolite green
tyrosine hydroxylase
tzetze fly
u hlan
u-boat
u-mm
u-o umlaut
ua mau ke ea o ka aina i ka pono
uberrima fides
ubi supra
ubussu palm
ucinate epilepsy
ugli fruit
ugly as hell
ultra-affected
ultra-aggressive
ultra-ambitious
ultra-angelic
ultra-apologetic
ultra-arbitrary
ultra-argumentative
ultra-atomic
ultra-auspicious
ultra-slow
ultra-ultra
ultrahigh frequency
ultrahigh-frequency
ultrahigh-frequency station
ultramannish bob
ultrashortwave diathermy
ultrasonic detector
ultrasonic diathermy
ultrasonic flow detection
ultrasonic flow detector
ultrasonic inspector
ultrasonic spectacles
ultrasonic speed
ultrasonic therapy
ultraviolet heat
ultraviolet lamp
ultraviolet light
ultraviolet microscope
ultraviolet ray
ultraviolet therapy
um suff
um-
um-hum
um-yum
umber bird
umber-black
umber-brown
umber-colored
umber-rufous
umbilical cord
umbilical hernia
umble pie
umbra tree
umbrella ant
umbrella bird
umbrella bush
umbrella catalpa
umbrella fern
umbrella fir
umbrella grass
umbrella leaf
umbrella maker
umbrella making
umbrella man
umbrella palm
umbrella pine
umbrella plant
umbrella pulley
umbrella sedge
umbrella shell
umbrella stand
umbrella step
umbrella tent
umbrella tree
umbrella-shaped
umbrella-topped
umbro-
umbu-rana
umpire assay
un w
un-
un-American
un-Americanism
un-Australian
un-Austrian
un-Brahminical
un-Christanise
un-Christanised
un-Christianising
un-Christianize
un-Christianized
un-Christianizing
un-Christianlike
un-Christianly
un-Christliness
un-Christly
un-Christmaslike
un-English
un-Eucharistic
un-Eucharistical
un-Eucharistically
un-European
un-French
un-German
un-Jesuitic
un-Jesuitical
un-Jesuitically
un-Latinised
un-Latinized
un-Negro
un-Scripturality
un-Victorian
un-american
un-co-operating
un-co-operative
un-co-ordinate
un-co-ordinated
un-come-at-able
un-come-at-able ness
un-come-at-ably
un-english
un-first-class
un-free-trade
un-frenchify
un-get-at-able
un-get-at-able ness
un-hunh
un-numbed
un-panic-stricken
un-preempted
un-reembodied
un-thought-of
una corda
una corda pedal
una voce
unable to
unable to believe your eyes
unable to believe your senses
unable to forget
unable to make ends meet
unable to meet your obligations
unable to pay your creditors
unable to say 'boo' to a goose
unable to say 'no'
unable to show your face
unabridged dictionary
unacceptable person
unaccommodated man
unaccounted-for
unaccustomed to
unacquaintance with evil
unacquainted with
unacquainted with evil
unadorned meaning
unadorned style
unaided eye
unalienable rights
unaligned nation
unalloyed happiness
unanalyzed mass
unanimously elected
unarmored scale
unasked-for
unassisted eye
unattended to
unauthorized absence
unavailable energy
unavoidable casualty
unaware of
unbalanced mind
unbiased observer
unblessed with
unblinking eye
unbloody sacrifice
unblush mg
unbosom yourself
unbroken chord
unbroken sleep
unbuckle your belt
unburden your conscience
unburden your heart
unburden your mind
unburdening yourself
unbuttoned ease
uncalled for
uncalled-for
uncared-for
uncertainty principle
uncertainty relation
unchaste man
unchaste person
unchaste woman
unchecked will
unciform process
uncinate process
uncle sam
unclean spirit
unco guid
uncollected accounts
uncome-at-able
uncommitted amplifier
uncommitted person
uncommitted voter
uncommonly like
uncommunicative person
uncomplimentary remark
unconditional convergence
unconditioned free will
unconditioned reflex
unconditioned response
unconfirmed report
unconscionable price
unconscious drive
unconscious knowledge
unconscious memory
unconscious mind
unconscious of
unconscious urge
uncontrolled growth
uncontrolled spin
unconversant with
uncover yourself
uncreated being
uncritical acceptance
uncross-examined
und so weiter
unda maris
undec-
undecided issue
undecided voter
undeclared war
undecylenic acid
undeniable fact
under a charm
under a cloud
under a spell
under a strain
under active consideration
under advisement
under an eclipse
under an error
under any other name
under arms
under arrest
under attack
under bare poles
under bevel
under canvas
under close arrest
under coercion
under compulsion
under consideration
under construction
under control
under cover
under cover of
under damping
under detention
under discipline
under dominant
under easy sail
under examination
under false colors
under fire
under forced draft
under full steam
under hand and seal
under handicap
under heaven
under house arrest
under investigation
under lock and key
under mediant
under nine
under no circumstances
under oath
under obligation
under one's breath
under one's wing
under pain of
under par
under part
under penalty of
under power
under press of
under press of canvas
under press of sail
under press of sail and steam
under press of steam
under pressure
under privilege
under probation
under protest
under restraint
under revision
under sail
under secretary
under security
under security restrictions
under siege
under steam
under surveillance
under suspicion
under the aegis of
under the auspices of
under the ban
under the ban of secrecy
under the breath
under the circumstances
under the cloak of
under the counter
under the eyes of
under the garb of
under the hammer
under the harrow
under the heel
under the heel of
under the impression
under the influence
under the knife
under the lash
under the lee
under the nose of
under the pretext of
under the protection of
under the rose
under the seal of secrecy
under the shadow of your wing
under the shield of
under the stars
under the sun
under the surface
under the table
under the weather
under the wind
under the wing of
under the wire
under tow
under way
under weigh
under wraps
under your belt
under your breath
under your care
under your command
under your control
under your eyes
under your hand
under your hat
under your jurisdiction
under your nose
under your orders
under your own power
under your thumb
under your very nose
under your wing
under-
under-action
under-body
under-breath
under-carriage
under-chap
under-covert
under-deck
under-dip
under-earth
under-estimate
under-frame
under-garment
under-glaze
under-jaw
under-king
under-mentioned
under-petticoat
under-round
under-runner
under-secretary
under-sized
under-skirt
under-steward
under-surface
under-the-counter
under-the-table
under-time
under-treasurer
undercover activity
undercover man
undercurrent relay
underdeck tonnage
underdeveloped nation
underfrequency relay
undergo a change
undergo an eclipse
undergo deprivation
undreamed-of
undress uniform
undue excitability
undue liberty
undulant fever
undulatory theory
unduly neglected
undying fame
undying friendship
unearned income
unearned increment
uneducated speech
unemployed, the
unemployment benefit
unemployment compensation
unemployment insurance
unequal to
unequal treatment
unequal-lengthed
unequal-limbed
unequal-lobed
unequal-sided
unequal-tempered
unequal-valved
uneven-aged
uneven-carriaged
uneven-handed
uneven-numbered
uneven-priced
uneven-roofed
unexcused absence
unexempt from
unexpended balance
unexplored ground
unexplored territory
unfair competition
unfair discrimination
unfair list
unfair practice
unfairly neglected
unfallen state
unfamiliar with
unfathomed deeps
unfavorable balance of payments
unfavorable wind
unfeel mg
unfinished worsted
unfit for human consumption
unfit to live in
unfold a tale
unforeseen attack
unforgivable sin
unfortunate time
unfortunate woman
unfrozen hydrometeor
unfulfilled pledge
unfunded debt
unfurl a banner
unfurl a flag
unfurl an ensign
unfurl sail
unfurnished uninhabited
unget-at-able
ungka puti
ungrateful wretch
ungreenable black
unh-unh
unhappy about
unhappy lot
unhappy-eyed
unhappy-faced
unhappy-happy
unhappy-looking
unhappy-seeming
unhappy-witted
unharmonious relationship
unheard-of
unholy dread
unholy joy
unholy mess
unhoped for
unhoped-for
uni-
uni-univalent
unicameral legislature
unicellular animal
unicorn antelope
unicorn beetle
unicorn bird
unicorn fish
unicorn hawk moth
unicorn moth
unicorn plant
unicorn ram
unicorn root
unicorn shell
unicorn whale
unicorn-plant family
unidentified flying object
unidirectional current
unidirectional microphone
unidirectional signal
unified atomic mass unit
unified field theory
unified theory
uniflow engine
uniform convergence
uniform velocity
uniform with
uniform-proof
uniformly continuous function
unilateral trade
unimportant person
uninhabited region
uninitiated in
uninterrupted course
uninterrupted sequence
unintoxicated state
uninvited guest
unio-
union black
union blue
union bow
union card
union catalog
union catalogue
union color
union contract
union cord
union district
union down
union dye
union elbow
union flag
union grass
union house
union jack
union jet burner
union joint
union label
union language
union list
union local
union member
universal gas constant
universal geometry
universal head
universal joint
universal language
universal law
universal life force
universal military training
universal motor
universal negative
universal plane
universal plate
universal quantifier
universal remedy
universal ruin
universal self
universal solvent
universal stage
universal suffrage
universal symbol
universal time
universal truth
universalistic hedonism
universally admitted
universally recognized
universe of discourse
universe vine
university college
university extension
university settlement
university-bred
university-conferrred
university-going
university-sponsored
university-taught
university-trained
unjust legal disability
unjust representation
unknown depths
unknown quantity
unknown soldier
unknown, the
unlapsed state
unlawful assembly
unlawful entry
unlearned capacity
unleash destruction
unleash the hurricane
unleavened bread
unless that
unlicked cub
unlisted securities
unlonged-for
unlooked for
unlooked-for
unlucky day
unlucky hour
unlucky person
unmade-up
unmanned satellite
unmarried person
unmeasured in your praise
unmediated perception
unmindful of
unmistakable sign
unmoth-eaten
unmoved mover
unnarrow-minded
unnarrow-mindedly
unnarrow-mindedness
unnecessary repetition
unnumbered bank account
uno saltu
unobstructed vision
unofficial wife
unorganized data
unorganized ferment
unorganized matter
unpaid accounts
unpaid-for
unpaid-letter
unpaid-letter stamp
unpardonable sin
unparliamentary language
unpath'd waters
unplanned t
unpleasant taste
unpolished rice
unpossessed of
unpracticed in
unprepared for
unprovoked assault
unquestioning belief
unreal hope
unreasonable behaviour
unreasoning impulse
unrefined flour
unrefined mineral
unregistered bank account
unregistered securities
unrelenting attention
unrepeatable expressions
unrestricted propellant
unrhymed poetry
unripe acceptation
unsanctioned behavior
unsaturated fat
unsavory reputation
unsecured bond
unsecured loan
unself-assertive
unself-centered
unself-centred
unself-changing
unself-confident
unself-conscious
unself-consciously
unself-consciousness
unself-denying
unself-determined
unself-evident
unself-indulgent
unself-knowing
unself-opinionated
unself-possessed
unself-reflecting
unself-righteous
unself-righteously
unself-righteousness
unself-sacrificial
unself-sacrifically
unself-sacrificing
unself-sufficiency
unself-sufficient
unself-sufficiently
unself-supported
unself-valuing
unself-willed
unself-willedness
unsent-for
unshakable nerves
unshaken confidence
unsheathe your weapon
unsighed-for
unskilled in
unskilled labor
unskilled laborer
unskillful person
unslaked lime
unsorted mass
unsound mind
unsoundness of mind
unsparing of self
unspoken accusation
unspoken consent
unstable as water
unsteady market
unstopper your ears
unsuccessful person
unsuitable time
unsupported by evidence
unsure of yourself
unswerving attention
unsymmetrical loading
untalked-of
unthinking response
unthought-of
unthought-on
unthought-out
untie the knot
untie the purse strings
untie your hands
until now
until the conclusion of
until then
until this time
until tomorrow
until we meet again
untimely end
unto the ends of the earth
unto yourself
untongue-tied
untouched by evil
untreated mineral
unup-braided
unused to
unutterable sin
unverified report
unverified supposition
unversed in
unwanted person
unwarranted demand
unwed condition
unwed state
unwedded to an opinion
unwelcome guest
unwell-intentioned
unwholesome joy
unwilling to accept
unwilling to forgive and forget
unwinking eye
unwise step
unwished-for
unwitting disclosure
unworm-eaten
unworthy of belief
unworthy of consideration
unworthy of one
unworthy of regard
unworthy person
unwritten constitution
unwritten law
up a stump
up a tree
up against
up against it
up ahead
up and about
up and around
up and at ’em
up and coming
up and die
up and do
up and doing
up and down
up and go
up attic
up for
up for discussion
up for grabs
up for hearing
up for investigation
up for sale
up helm
up in arms
up in the air
up in the world
up left
up north
up oars
up-and-down dial
up-and-down indicator
up-and-downish
up-and-downishness
up-and-downness
up-and-downy
up-and-over
up-and-under
up-and-up
up-bow
up-bow sign
up-chuck
up-country
up-end
up-grade
up-market
up-over
up-page
up-patient
up-put
up-putting
up-see-daisy
up-sky
up-stream
up-stroke
up-to-date
up-to-dately
up-to-dateness
up-to-datish
up-to-datishness
up-to-the-minute
up-trending
up-wind
upas tree
upfeed system
uphill going
uphill work
upholsterer bee
upholsterer's needle
upland cotton
upland hickory
upland plover
uplift brassiere
upmost height
upon condition that
upon even terms
upon oath
upon pain of
upper-cased
upper-casing
upper-circle
upper-class
upper-cruiter
upper-form
upper-grade
upper-school
uppermost height
uppers and lowers
upright drill
upright piano
upright shave
upright-growing
upright-grown
upright-hearted
upright-heartedness
upright-minded
upright-standing
upright-walking
ups and downs
ups and downs of life
upset one's applecart
upset price
upset stomach
upset the
upset the boat
upset your applecart
upsetting lever
upsetting moment
upsetting thermometer
upside down
upside downward
upside-down
upside-down cake
upside-down flag
upside-downism
upside-downness
upside-downwards
upsilon particle
upstairs and downstairs
upstairs maid
upswept hairdo
upsy-daisy
upsy-freesy
upsy-turvy
upward looking
upward mobility
upward mordent
upward motion
upward strabismus
upward system
upward-borne
upward-bound
upward-gazing
upward-looking
upward-pointed
upward-rushing
upward-shooting
upward-stirring
upward-striving
upward-turning
upwards of
ur washed
ur-
ural-altaic
uralite-gabbro
uralo-
uran-
uranite group
uranium 235
uranium 238
uranium dioxide
uranium glass
uranium lead
uranium nitrate
uranium oxide
uranium ray
uranium reactor
uranium red
uranium series
uranium trioxide
uranium yellow
uranium-radium series
urano-
uranoso-
uranosouranic oxide
uratic arthritis
urban blight
urban blues
urban center
urban complex
urban district
urban economy
urban guerrilla
urban market
urban planner
urban redevelopment
urban renewal
urban sociology
urban sprawl
urbi et orbi
urchin fish
urdor urd
ure-ox
urea ferment
urea formaldehyde
urea frost
urea-formaldehyde
urea-formaldehyde resin
uredo-fruit
ureido group
ureido radical
ureo-
uretero-
uretero-ureterostomy
uretero-uterine
urethr-
urethral arthritis
urethral fever
urethro-
ureylene group
ureylene radical
urge along
urge as a motive
urge on
urge on the mind
urge reasons for
urge upon
urgent need
uric acid
uric-acid
urim and thummim
urir-
urinal fever
urinalysis kit
urinary bladder
urinary calculus
urine analysis
uriniferous tubule
urino-
urinogenital disease
urinogenital ridge
urinogenital sinus
urn burial
use reason
use tax
use terror tactics
use terroristic tactics
use the gray matter
use the mails
use the mind
use the occasion
use the old bean
use time
use to advantage
use to the full
use tobacco
use unadvisedly
use up
use violence
use your endeavor
use your fine Italian hand
use your good offices
use your head
use your influence
use your option
use your palate
use your wits
use-money
used to
used to keep two parts separated
used up
used with the
used-car lot
used-up
useful consciousness
useful lift
useful load
usher in
usher into the world
usher-in
using up
using-ground
usque ad aras
usual, the
usurp the crown
usurp the mantle
usurp the throne
usus loquendi
ut infra
ut supra
uterine brother
uterine kin
uterine sister
utero-
uti possidetis
utile dulci
utility man
utility plane
utility player
utility pole
utility room
utility sash
utmost extent
utmost height
uto-aztecan
utopian socialism
utopian socialist
utter a caveat
utter a judgment
utter a mot
utter bar
utter barrister
utter darkness
utter defeat
utter rout
utter threats against
utterance string
utterly attentive
utterly detest
uva grass
uva-ursi
uvi yam
uviol glass
uviol lamp
uzara root
v aux
v sign
v-day
v-eight
v-engine
v-particle
vCechy
vCeskd
vCeskoslovensko
va' via
va-et-vien
va-l'en
vacancy clause
vacant possession
vacant post
vacant-brained
vacant-eyed
vacant-headed
vacant-looking
vacant-minded
vacant-mindedness
vacant-seeming
vacation barrister
vacation church school
vacation school
vaccinal fever
vaccine lymph
vaccine point
vaccine rash
vaccine therapy
vaccino-syphilis
vachette clasp
vacuum boiler
vacuum bottle
vacuum brake
vacuum breaker
vacuum bulb
vacuum can
vacuum cleaner
vacuum cleaning
vacuum coffee maker
vacuum concrete
vacuum condenser
vacuum crystallizer
vacuum desiccator
vacuum distillation
vacuum drier
vacuum engine
vacuum evaporating
vacuum fan
vacuum filter
vacuum flask
vacuum gauge
vacuum hammer
vacuum induction furnace
vacuum jar
vacuum kettle
vacuum line
vacuum machine
vacuum oven
vacuum pack
vacuum pan
vacuum phototube
vacuum pump
vacuum separator
vacuum shunt
vacuum still
vacuum strainer
vacuum sweeper
vacuum tank
vacuum tar
vacuum tester
vacuum trap
vacuum tube
vacuum tube components
vacuum tube rectifier
vacuum valve
vacuum ventilation
vacuum vessel
vacuum-clean
vacuum-packed
vacuum-tube circuit
vacuum-tube electrometer
vacuum-tube hearing aid
vacuum-tube voltmeter
vade in pace
vade mecum
vade mecums
vade-mecum
vadium mortuum
vadium vivum
vae victis
vag-
vagabond green
vagino-
vagrant impulse
vague appearance
vague feeling
vague idea
vague memory
vague notion
vague supposition
vague-eyed
vague-ideaed
vague-looking
vague-menacing
vague-minded
vague-phrased
vague-shining
vague-worded
vain attempt
vain expectation
vain person
vain pretensions
vain show
vair en point
vale of tears
vale of years
valedictory address
valence electron
valence electrons
valence formula
valence isomerism
valence number
valence shell
valency electron
valent atoms and radicals
valentine day
valeric acid
valero-
valet de chambre
valet de pied
valet-de-chambre
valet-de-place
valiant knight
valid contract
vallary crown
vallate papilla
vallecular canal
valley board
valley breeze
valley flat
valley lily
valley mahogany
valley oak
valley of the shadow of death
valley partridge
valley quail
valley rafter
valley roof
valley tile
valley train
valley white oak
valley wind
valonia oak
valuable consideration
valuation account
valuation survey
value added
value added tax
value date
value judgment
value received
value stress
value system
value theory
value-added tax
valued at
valued policy
valued-policy law
valval view
valve body
valve box
valve cage
valve cap
valve casing
valve casting
valve chamber
valve chest
valve control
valve coupling
valve cup
valve diagram
valve ellipse
valve file
valve filter
valve fitting
valve gear
valve generator
valve grinder
valve handle
valve housing
valve indicator
valve key
valve line
valve motion
valve plate
valve ring
valve rod
valve seat
valve spring
valve stem
valve tool
valve travel
valve trombone
valve trumpet
vanish into thin air
vanish like a dream
vanishing cream
vanishing fraction
vanishing line
vanishing point
vanishing trace
vanity bag
vanity box
vanity case
vanity fair
vanity lamp
vanity plate
vanity press
vanity unit
vanity-proof
vant-
vantage game
vantage ground
vantage point
vantage post
vantage-ground
vapor bath
vapor bathing
vapor burner
vapor cabinet
vapor cloud
vapor condenser
vapor density
vapor engine
vapor heating
vapor inhaler
vapor jacket
vapor lamp
vapor lock
vapor plane
vapor pressure
vapor regulator
vapor stove
vapor tension
vapor trail
vapor treatment
vapor tube
vapor valve
vapor volume
vapor-belted
vapor-braided
vapor-burdened
vapor-clouded
vapor-filled
vapor-headed
vapor-producing
vapor-sandaled
vaporer moth
vapour density
vapour lock
vapour pressure
vapour trail
vapour-bath
vare wigeon
vari-
vari-coloured
varia lectio
variable annuity
variable capacitor
variable condenser
variable cost
variable density system
variable error
variable field
variable star
variable time fuze
variable-mu tube
variable-reluctance microphone
variable-speed gear
variable-speed motor
variable-time fuse
variae lectiones
variance analysis
variant reading
variation chart
variation compass
variation factor
variation of parameters
variation range
varico-
varicose aneurysm
varicose vein
varicose veins
varied robin
varied thrush
variegated pattern
variegated-leaved
variety hybrid
variety meat
variety shop
variety show
variety store
varifocal lens
vario-
variola porcina
various-blossomed
various-colored
various-formed
various-leaved
variscite green
varix lymphaticus
varnish brush
varnish cleaner
varnish dryer
varnish filler
varnish gum
varnish maker
varnish remover
varnish renovator
varnish resins
varnish sumac
varnish thinner
varnish tree
varnish-drying
varnish-making
varnish-treated
varnish-treating
varnishing day
varsity socks
varsity student
varve-count
varying duty
varying hare
varying-speed motor
vas deferens
vas-
vasa deferentia
vasa murrhina
vasa parrot
vascular bundle
vascular cylinder
vascular hemophilia
vascular plant
vascular ray
vascular tissue
vase clock
vase painter
vase painting
vase rug
vase-shaped
vase-vine
vaso-
vaso-motor
vassal state
vast knowledge
vast-dimensioned
vast-rolling
vast-skirted
vastus intermedius
vastus lateralis
vastus medialis
vat builder
vat color
vat dye
vat keeper
vat liquor
vat setter
vat waste
vat-dyed
vat-net
vates sacer
vau consecutive
vau conversive
vaudeville circuit
vaudeville show
vaudeville theater
vault light
vault mount
vault of heaven
vault rib
vault up
vaulting ambition
vaulting capital
vaulting cell
vaulting course
vaulting horse
vaulting pillar
vaulting shaft
vaulting shoe
vaulting tile
vaunt-
vaunt-courier
vaya con Dios
veal Parmigiana
veal bird
veal calf
vegetable life
vegetable market
vegetable marrow
vegetable mold
vegetable naphtha
vegetable oil
vegetable oils
vegetable orange
vegetable oyster
vegetable parchment
vegetable pathology
vegetable physiology
vegetable plate
vegetable red
vegetable remedies
vegetable resins
vegetable satyr
vegetable sheep
vegetable silk
vegetable soup
vegetable spermaceti
vegetable sponge
vegetable stock
vegetable store
vegetable tallow
vegetable tanning
vegetable wax
vegetable wool
vegetable-eating
vegetable-feeding
vegetable-growing
vegetable-tallow tree
vegetal pole
vegetation daemon
vegetation daimon
vegetation demon
vegetation spirit
vegetation-proof
vegeto-
vehement action
vehicle tank
vehicular tunnel
veil of secrecy
veil-hid
veil-wearing
veiled accusation
veiled in darkness
veiled threat
velvet cork
velvet darkness
velvet dock
velvet duck
velvet finish
velvet fish
velvet flower
velvet glove
velvet grass
velvet green
velvet groundsel
velvet head
velvet leaf
velvet leather jacket
velvet moss
velvet osier
velvet paper
velvet plant
velvet rug
velvet runner
velvet scoter
velvet sponge
velvet stout
velvet tree
velvet violet
velvet-banded
velvet-bearded
velvet-black
velvet-caped
velvet-clad
velvet-leaved
velvet-pile
velvet-suited
ven-
vena cava
vena contracta
venae contractae
vending machine
veneer grafting
veneer moth
venerable sir
venerable-looking
venereal appetite
venereal desire
venereal disease
venetian blind
venetian blind reflector
venetian glass
venetian red
venga lo que venga
vengeance-crying
vengeance-promising
vengeance-sated
vengeance-scathed
vengeance-seeking
vengeance-taking
veni-
venial sin
venire de novo
venire facias
venire facias de novo
venom maker
venom-breathing
venom-breeding
venom-cold
venom-fanged
venom-hating
venom-mouthed
venom-spotted
venom-sputtering
venom-venting
venomous-hearted
venomous-looking
venomous-minded
venous blood
venous transfusion
vent drill
vent feather
vent punch
vent stack
vent tank
vent wire
vent your anger
vent your choler
vent your rancor
vent your spleen
vent-hole
vent-peg
ventilate inboard
ventilating apparatus
ventilating blower
ventilating brick
ventilating column
ventilating engineer
ventilating fan
ventilating grate
ventilating jack
ventilating millstone
ventilating shaft
ventilating skylight
ventilating system
ventilation engineer
ventr-
ventral airdome
ventral fin
ventral radome
ventri-
ventricular fibrillation
ventro-
venture a guess
venture capital
venture on
venture to
venture to say
venture upon
venturi tube
venus's-flytrap
veratr-
veratric acid
verb complex
verb phrase
verb sap
verbal adjective
verbal agreement
verbal amnesia
verbal auxiliary
verbal contest
verbal diarrhea
verbal engagement
verbal fallacy
verbal intercourse
verbal noun
verbal response
verbal thrust
verbal translation
verbatim et litteratim
verbena family
verbena oil
verbena violet
verbum sap
verbum sapienti
verbum sat
verd antique
verd gay
verd russe
verd-antique
verdant green
verde antico
verde antique
verdict of acquittal
verdict of guilty
verdict of not guilty
verdigris green
verditer blue
verditer green
verge escapement
verge on
verge paper
verge upon
verge watch
verge-board
verging on
verging upon
vermeil-cheeked
vermeil-dyed
vermeil-rimmed
vermeil-tinctured
vermeil-tinted
vermeil-veined
vermi-
vermiform appendix
vermiform process
vermilion rockfish
vermilion-colored
vermilion-dyed
vermilion-red
vermilion-spotted
vermilion-tawny
vermilion-veined
vermin-covered
vermin-destroying
vermin-eaten
vermin-footed
vermin-haunted
vermin-infested
vermin-ridden
vermin-spoiled
vermin-tenanted
vermouth cassis
vernacular language
vernacular speech
vernal equinox
very well
very-high-frequency
vesica piscis
vesicatory gas
vesico-
vesico-umbilical
vesico-urachal
vesico-ureteral
vesico-urethral
vesico-uterine
vesicular exanthema
vesicular stomatitis
vesper bird
vesper mouse
vesper sparrow
vest in
vest with
vest-pocket
vest-pocket camera
vestal virgin
vested authority
vested estate
vested interest
vested interests
vested right
vestibule car
vestibule latch
vestibule of Day
vestibule school
vestibule train
vestibulo-urethral
vestigial transmission
vesting order
vestry board
vestry room
vesuvian jade
vesuvianite jade
vetch-leaved
veteran car
veterans day
veterans hospital
veterans' preference
veterinary corps
veterinary medicine
veterinary science
veterinary surgeon
veterinary surgery
vetiver green
vetivert oil
tego message
tego power
vexation of spirit
vexed question
vi apple
vi et armis
via media
via-medialism
vials of hate
vials of wrath
viande de boucherie
vibration and stress analyzer
vibration massage
vibration meter
vibration number
vibration point
vibration treatment
vibration-proof
vibratory current
vibratory massage
vibrionic abortion
vibro-
vicar apostolic
vicar capitular
vicar choral
vicar forane
vicar general
vicar of christ
vicar-choralship
vicar-general
vicar-generalship
vicarage tithe
vicariate apostolic
vicariates apostolic
vicarious authority
vicars capitular
vicars choral
vicars forane
vicars-general
vice admiral
vice chancellor
vice presidency
vice president
vice squad
vice versa
vice-
vice-abbot
vice-admiral
vice-admirality
vice-admiralship
vice-admiralty
vice-admiralty court
vice-agent
vice-apostle
vice-apostolical
vice-architect
vice-begotten
vice-bishop
vice-bitten
vice-burgomaster
vice-butler
vice-caliph
vice-cancellarian
vice-chair
vice-chairman
vice-chairmen
vice-chamberlain
vice-chancellor
vice-chancellorship
vice-collector
vice-commodore
vice-constable
vice-consul
vice-consular
vice-consulate
vice-consulship
vice-corrupted
vice-county
vice-created
vice-dean
vice-deity
vice-detesting
vice-dictator
vice-director
vice-emperor
vice-freed
vice-general
vice-government
vice-governor
vice-governorship
vice-guilty
vice-haunted
vice-headmaster
vice-imperial
vice-king
vice-kingdom
vice-laden
vice-legate
vice-legateship
vice-librarian
vice-lieutenant
vice-loathing
vice-marred
vice-marshall
vice-master
vice-ministerial
vice-nature
vice-palatine
vice-papacy
vice-patron
vice-patronage
vice-polluted
vice-pope
vice-porter
vice-postulator
vice-prefect
vice-premier
vice-pres
vice-presidency
vice-president
vice-presidential
vice-presidentship
vice-priest
vice-principal
vice-principalship
vice-prior
vice-prone
vice-protector
vice-provost
vice-provostship
vice-punishing
vice-queen
vice-rebuking
vice-rector
vice-rectorship
vice-regal
vice-regalize
vice-regency
vice-regent
vice-reign
vice-residency
vice-resident
vice-secretary
vice-sheriff
vice-sick
vice-squandered
vice-stadtholder
vice-steward
vice-sultan
vice-taming
vice-tenace
vice-throne
vice-treasurer
vice-treasurership
vice-trustee
vice-upbraiding
vice-verger
vice-viceroy
vice-warden
vice-wardenry
vice-wardenship
vice-worn
viceregal assent
vichy water
vicious circle
vicious reasoning
vicissitudes of fortune
vicontiel rent
vicontiel writ
victoria cross
victoria plum
victory garden
victory girl
victory medal
victual rent
victualing bill
victualing house
victualing note
victualing office
victualing ship
victualing station
victualing yard
vida finch
vide ante
vide infra
vide post
vide supra
vide ut supra
video amplifier
video channel
video detector
video frequency
video game
video monitor
video signal
video static
video tape
video tape recorder
video transmitter
video truck
video-gazer
videotape recorder
vie against
vie for
vie with
vienna sausage
view angle
view as
view camera
view finder
view halloo
view halloo
view in a new light
view in all its phases
view mark
view together
view with a jaundiced eye
view with a scornful eye
view with disfavor
view with favor
view with indulgence
view with the mind's eye
view-halloo
view-point
viewing audience
vigesimo-quarto
vigesimo-quartos
vigil light
vigilance committee
vigilance man
vigogne yarn
vile language
vile-born
vile-bred
vile-concluded
vile-fashioned
vile-looking
vile-natured
vile-proportioned
vile-smelling
vile-spirited
vile-spoken
vile-tasting
villa-dotted
villa-dwelling
villa-haunted
village cart
village college
village community
village economy
village green
village of the dead
village reserve
village soviet
village-born
village-dwelling
village-lit
villain d
villainous-looking
villainy-proof
villanous saltpetre
villein socage
vin du pays
vin mousseux
vin ordinaire
vin rose
vin rouge
vin-
vinaigrette sauce
vincent's angina
vincent's infection
vincit omnia veritas
vinculum matrimonii
vindicate a claim to
vindicate a right to
vindicate a title to
vine bamboo
vine bark louse
vine beetle
vine black
vine borer
vine bower
vine cactus
vine chafer
vine forester
vine fretter
vine hawk moth
vine hopper
vine leaf
vine leaf folder
vine leek
vine louse
vine maple
vine mesquite
vine mildew
vine misquite
vine moth
vine peach
vine pest
vine sawfly
vine scale
vine slug
vine snake
vine sorrel
vine sphinx
vine tie
vine turner
vine webworm
vine weevil
vine wilt
vine-bearing
vine-bordered
vine-clad
vine-covered
vine-crowned
vine-decked
vine-dresser
vine-encircled
vine-fed
vine-garlanded
vine-growing
vine-hung
vine-laced
vine-leafed
vine-leaved
vine-mantled
vine-planted
vine-producing
vine-robed
vine-shadowed
vine-sheltered
vine-wreathed
vinegar aspect
vinegar eel
vinegar essence
vinegar fly
vinegar lamp
vinegar maker
vinegar making
vinegar mother
vinegar plant
vinegar rot
vinegar tree
vinegar worm
vinegar-faced
vinegar-flavored
vinegar-generating
vinegar-hearted
vinegar-tart
vineyard plow
vingt-et-un
vinho verde
vini-
vino de pasto
vino-
vins ordinaires
vintage car
vintage wine
vintage year
vinyl acetate
vinyl alcohol
vinyl chloride
vinyl ether
vinyl group
vinyl plastic
vinyl polymer
vinyl radical
vinyl resin
vinylidene chloride
vinylidene group
vinylidene radical
vinylidene resin
viol block
viol d'amore
viol d'orchestre
viol da braccio
viol da gamba
viol da spalla
viol di bordone
viol di fagotto
viol family
viola alta
violet-dyed
violet-ear
violet-eared
violet-embroidered
violet-flowered
violet-garlanded
violet-gray
violet-green
violet-green swallow
violet-headed
violet-horned
violet-hued
violet-inwoven
violet-purple
violet-rayed
violet-red
violet-ringled
violet-scented
violet-shrouded
violet-stoled
violet-striped
violet-sweet
violet-tailed
violet-throated
violin bow
violin case
violin clef
violin diapason
violin piano
violin string
violin-shaped
violino piccolo
violoncello piccolo
viper broth
viper gourd
viper grass
viper lozenge
viper wine
viper's bugloss
viper's grass
viper-bit
viper-curled
viper-haunted
viper-headed
viper-mouthed
viper-nourished
vir et uxor
viral dysentery
virgin birth
virgin bower
virgin dip
virgin forest
virgin honey
virgin knot
virgin land
virgin mary
virgin moth
virgin parchment
virgin rosin
virgin scammony
virgin soil
virgin spawn
virgin state
virgin territory
virgin tree
virgin wax
virgin widow
virgin wool
virgin's bower
virgin's milk
virgin's-bower
virgin-born
virgin-eyed
virgin-minded
virgin-vested
virginia cowslip
virginia creeper
virginia fence
virginia reel
virginibus puerisque
virgo intacta
viridine green
viridine yellow
virola tallow
virtual focus
virtual image
virtual storage
virtue-armed
virtue-binding
virtue-loving
virtue-tempting
virtue-wise
virtute et armis
virus disease
virus pneumonia
virus warfare
visual acuity
visual aid
visual aids
visual arts
visual binary
visual display unit
visual examination
visual field
visual flight
visual flight rules
visual flying
visual humor
visual image
visual joke
visual magnitude
visual memory
visual organ
visual purple
visual range
visual sense
visual tracking station
visual violet
visual yellow
visual-aural radio range
visual-aural range
vita contemplativa
vita glass
vital body
vital capacity
vital center
vital concern
vital energy
vital flame
vital fluid
vital force
vital function
vital impulse
vital interest
vital principle
vital soul
vital spark
vital spirit
vital staining
vital statistics
vitam impendere vero
vitamin A
vitamin A1
vitamin A2
vitreous humor
vitreous humour
vitreous selenium
vitreous silica
vitreous silver
vitreous sponge
vitreous table
vitrified fort
vitrified chamber
vitrified stone
vitiolated tartar
vitrified bone
vitro-
vitro-clarain
vitro-di-trina
vitular apoplexy
viva voce
viva voce examination
viva voce
vivaciousness vivacity
vivacity of imagination
vive l'amour
vive la bagatelle
vive valeque
viverrine cat
viverrine otter
vivi-
vivid description
vivid image
vivid imagination
vizard maker
vizard making
vizard mask
vizard-faced
vizard-hid
vizard-mask
vizard-wearing
voa vanga
vocabulary entry
vocabulary test
vocal band
vocal bands
vocal chink
vocal cord
vocal cords
vocal fold
vocal folds
vocal fremitus
vocal lip
vocal minority
vocal music
vocal organ
vocal process
vocal processes
vocal resonance
vocal sac
vocal score
vocalic alliteration
vocational advisor
vocational council
vocational counselor
vocational director
vocational education
vocational guidance
vocational school
vocational therapy
vocational training
voce di petto
voce di testa
voce velata
vodka martini
vogue la galere
vogue word
voice box
voice coil
voice glide
voice glottis
voice key
voice leading
voice of conscience
voice of the tempter
voice part
voice placing
voice qualifier
voice quality
voice stop
voice tube
voice vote
voice-leading
voice-over
voiced breath
voiced sound
voiceless glide
voiceless sound
void end
void of
void of truth
void space
voided cross
voided lozenge
voir dire
voir en couleur de rose
voix celeste
voix cleste
vol-au-vent
volant piece
volar accessory ligament
volar carpal ligament
volatile alkali
volatile liniment
volatile oil
volatile salt
volcanic ash
volcanic bomb
volcanic cloud
volcanic cone
volcanic dust
volcanic glass
volcanic lake
volcanic pipe
volcanic plug
volcanic rock
volcanic tuff
volcanic water
volcanic wind
volcano fish
volitional tremor
volley fire
volt box
volt-ammeter
volt-ampere
volt-ampere-hour meter
volt-coulomb
volt-ohm meter
volt-ohm-milliammeter
volt-second
volta's pile
volta-
voltage amplification
voltage changer
voltage coil
voltage divider
voltage gradient
voltage indicator
voltage pulse
voltage ratio
voltage regulator
voltage relay
voltage saturation
voltage stabilizer
voltage transformer
voltage-reference tube
voltage-regulator tube
voltaic battery
voltaic cell
voltaic circuit
voltaic couple
voltaic current
voltaic electricity
voltaic pile
voltmeter law
volte-face
voltmeter-milliammeter
voluble-tongued
volume color
volume control
volume density
volume displacement
volume engineer
volume indicator
volume integral
volume measure
volume measures
volume production
volume resistance
volume table
volume velocity
volume-produce
volume-produced
volumetric analysis
volumetric flask
volumetric solution
volumetric strain
voluntary affidavit
voluntary association
voluntary bankruptcy
voluntary conveyance
voluntary escape
voluntary hospital
voluntary improvement
voluntary inaction
voluntary jurisdiction
voluntary manslaughter
voluntary muscle
voluntary muscles
voluntary oath
voluntary poverty
voluntary resignation
voluntary school
voluntary waste
volunteer army
volunteer fireman
volunteer militia
volunteer navy
volunteer soldier
volunteers of america
volute centrifugal pump
volute compass
volute pump
volute spring
volutin granule
vomerine cartilage
vomic nut
vomit forth
vomit nut
vomit out
vomiting center
vomiting gas
vomito negro
von Braun
von Neumann
von Sternberg
vortex atom
vortex filament
vortex fringe
vortex line
vortex plate
vortex ring
vortex sheet
vortex theory
vortex tube
vortex wheel
vortical motion
votary candle
vote affirmatively
vote against
vote aye
vote checking
vote counter
vote down
- vox humana
- vox pop
- vox populi
- vox populi vox Dei
- voyage policy
- vrai reseau
- vt fuze
- vulcanite grinding wheel
- vulcanite pavement
- vulcanized fiber
- vulcanized rubber
- vulgar era
- vulgar establishment
- vulgar fellow
- vulgar fraction
- vulgar language
- vulgar latin
- vulgar person
- vulgar purgation
- vulgar substitution
- vulgar taste
- vulgar tongue
- vulnerable place
- vulnerable point
- vulnerable to
- vulnerant omnes ultima necat
- vulpine opossum
- vulture hock
- vulture raven
- vulture-beaked
- vulture-gnawn
- vulture-hocked
- vulture-rent
- vulture-torn
- vulture-tortured
- vulture-winged
- vulturine eagle
- vulturine guinea fowl
- vulturine sea eagle
- vulvo-
- w will
- wabble saw
- waberan-leaf
- wabert-leaf
- wad hook
- wad up
- wade an
- wade in
wage-plug
wager policy
wagering contract
wages after deductions
wages after taxes
wages fund
wages plus fringe benefits
wages-man
waggish trick
waggon-headed
wagh down
waging board
wagon bed
wagon boiler
wagon boss
wagon box
wagon breast
wagon ceiling
wagon filler
wagon greaser
wagon gun
wagon hammer
wagon jobber
wagon lock
wagon master
wagon road
wagon roof
wagon seat
wagon shed
wagon shoe
wagon soldier
wagon table
wagon tent
wagon tongue
wagon top
wagon track
wagon trail
wagon train
wagon tree
wagon truck
wagon vault
wagon wheel
wagon yard
wagon-headed
wagon-lit
wagon-roofed
wagon-shaped
wagon-spring clock
walk up
walk-around
walk-down
walk-in
walk-in apartment
walk-in closet
walk-on
walk-over
walk-through
walk-up
walker-on
walkie-lookie
walkie-talkie
walking bass
walking beam
walking boat
walking crane
walking dead man
walking delegate
walking encyclopedia
walking engine
walking excursion
walking fern
walking fish
walking gentleman
walking lady
walking leaf
walking line
walking mort
walking papers
walking part
walking phallus
walking pipe
walking plow
walking scow
walking skeleton
walking staff
walking stick
walking straw
walking sword
walking toad
walking tour
walking twig
walking tyrant
walking wheel
walking-out
walking-stick
walking-stick palm
walking-sticked
walky-talkies
walky-talky
wall anchor
wall arcade
wall barley
wall bars
wall bearing
wall bed
wall bee
wall box
wall bracket
wall bugloss
wall cabbage
wall cabinet
wall card
wall clamp
wall crane
wall creeper
wall cress
wall engine
wall fern
wall frame
wall fruit
wall garden
wall gecko
wall germander
wall gillyflower
wall grass
wall green
wall grenade
wall hanging
wall hawkweed
wall hold
wall hook
wall in
wall iron
wall knot
wall link
wall lizard
wall molding
wall mustard
wall of secrecy
wall off
wall painting
wall pass
wall pellitory
wall penny grass
wall pennywort
wall pepper
wall pie
wall plate
wall plug
wall pocket
wall rock
wall rocket
wall rue
wall rue spleenwort
wall saltpeter
wall socket
wall speedwell
wall spleenwort
wall street
wall telephone
wall tent
wall tower
wall up
wall wasp
wall-bound
wall-checkered
wall-climbing
wall-defended
wall-drilling
wall-encircled
wall-eyed
wall-fed
wall-fight
wall-girt
wall-hanging
wall-inhabiting
wall-knot
wall-less
wall-like
wall-loving
wall-piece
wall-piercing
wall-plat
wall-scaling
wall-shaking
wall-sided
wall-to-wall
wall-to-wall carpet
wallaby acacia
wallaby bush
wallaby grass
wallaby-proof
walled plain
walled-in
walled-up
walleye pollack
walleye pollock
walleyed pike
wallflower brown
walling crib
walling wax
walling-in
wallow in
wallow in ignorance
wallow in the mire
wallow in wealth
wallowing in wealth
walnut blight
walnut borer
walnut brown
walnut case-bearer
walnut caterpillar
walnut curculio
walnut family
walnut juice
walnut moth
walnut oil
walnut scale
walnut shell
walnut spanworm
walnut sphinx
walnut tree
walnut weevil
walnut worm
walnut-brown
walnut-finished
walnut-framed
walnut-inlaid
walnut-paneled
walnut-shell
walnut-stained
walnut-trimmed
walpurgis night
walrus bird
walrus moustache
walrus mustache
waltz Matilda
waltz measure
waltz off with
waltz song
waltz time
waltzing Matilda
waltzing mouse
wamble-cropped
wamper-jawed
wampum belt
wampum snake
wan-
wan-checked
wan-colored
wan-worn
wand bearer
wand of office
wand shoot
wand shooting
wand shot
wand-bearing
wand-shaped
wand-waving
wander from
wander from the subject
wander termite
wander-year
wandering Jew
wandering albatross
wandering ant
wandering cell
wandering course
wandering dervish
wandering dune
wandering electron
wandering jenny
wandering jew
wandering minstrel
wandering path
wandering scholar
wandering soul
wandering star
wandering tattler
wane cloud
wangle into
wangle out of
wanning crescent moon
waning moon
wankel engine
want ad
want doing
want in
want in the worst way
want list
want to
want to know
want with all your heart
want-wit
wantage rod
wanted-right-hand
wanting to fly in the air
wanton cruelty
wanton ringlets wav’d
wanton-cruel
wanton-eyed
wanton-mad
wanton-sick
wanton-tongued
wanton-winged
wapper-eyed
wapper-jawed
war baby
war bag
war bird
war bond
war bonnet
war book
war boom
war boomerang
war bow
war bride
war cabinet
war cart
war cheat
war chest
war cloud
war clouds
war club
war college
war correspondent
war crime
war crimes
war criminal
war cross
war cry
war dance
war debt
war dog
war drum
war drum
war economy
war flame
war footing
war galley
war game
war gas
war god
war goddess
war gods
war guilt
war hammer
war hat
war hawk
war head
war horse
war hound
war lord
war machine
war medal
war memorial
war neurosis
war of attrition
war of independence
war of movement
war of national liberation
war of nerves
war of position
war of the elements
war of words
war office
war paint
war party
war plans
war power
war proof
war rebel
war risk
war risk insurance
war rocket
war scare
war school
war scythe
war service chevron
war song
war spirit
war stamp
war surplus
war to end war
war traitor
war vessel
war whoop
war zone
war-appareled
war-blasted
war-breathing
war-breeding
war-broken
war-denouncing
war-dight
war-disabled
war-dreading
war-fain
war-famed
war-god
war-goddess
war-hawk
war-horse
war-savings certificate
war-savings stamp
war-tax stamp
war-time
war-weary
war-whoop
war-wolf
warble fly
warbler green
warbling vireo
ward heeler
ward hill
ward of the state
ward off
ward politics
ward-walk
warden court
warden pie
wardian case
warding file
wardmote court
wardmote quest
wardour-street
wardrobe bed
wardrobe case
wardrobe dealer
wardrobe trunk
ware cleaner
ware goose
ware grinder
ware sorter
warehouse bond
warehouse boy
warehouse clerk
warehouse foreman
warehouse receipt
warehouse sorter
warehouse truck
warlike spirit
warm as toast
warm assent
warm body
warm color
warm friend
warm friendship
warm front
warm heart
warm imagination
warm man
warm over
warm sector
warm spot
warm spring
warm temper
warm the bency
warm the blood
warm the cockles of the heart
warm the spirits
warm up
warm weather
warm welcome
warm work
warm-backed
warm-blooded
warm-breathed
warm-clad
warm-colored
warm-complexioned
warm-contested
warm-glowing
warm-headed
warm-hearted
warm-kept
warm-lying
warm-reeking
warm-sheltered
warm-tempered
warm-tinted
warm-up
warm-working
warm-wrapped
warmed over
warmed up
warmed-over
warmed-over cabbage
warmed-up
warming house
warming pad
warming pan
warming-pan
warming-up
warminster broom
warmth of color
warmth of feeling
warmth of heart
warn against
warning coloration
warning lever
warning piece
warning sign
warning signal
warp and weft
warp and woof
warp beam
warp frame
warp knit
warp knitting
warp lace
warp land
warp net
warp roll
warp sizer
warp stitch
warp tier
warp-knit
warp-knitted
warp-net frame
warp-proof
warped conception
warped judgment
warping bank
warping bridge
warping chock
warping hook
warping-frame
warple way
warrant of arrest
warrant of attorney
warrant officer
warrant trying
warrants off
warrants on
warranty deed
warrior ant
warrior bush
warsaw grouper
wart cress
wart disease
wart grass
wart hog
wart snake
wart spurge
warted gourd
warted grass
warted spurge
wartime footing
warts and all
warty egg
warty-faced honey eater
wary-eyed
wary-footed
wary-looking
wash and wear
wash ball
wash barrel
wash bear
wash boiler
wash boring
wash coat
wash down
wash drawing
wash gilding
wash goods
wash leather
wash mill
wash miller
wash oil
wash out
wash pitcher
wash sale
wash sales
wash strake
wash up
wash water
wash your dirty linen in public
wash your hands of
wash your sins away
wash-and-wear
wash-and-wear fabric
wash-bear
wash-colored
wash-hand
wash-house
wash-in
wash-leather
wash-mouth
wash-out
wash-pot
wash-up
washable paint
washboard road
washed metal
washed out
washed sale
washed up
washed-out
washed-up
washing bear
washing bottle
washing crystal
washing engine
washing equipment
washing machine
washing maid
washing out
washing pot
washing powder
washing soda
washing tub
washing up
washing-up
washington pie
washington's birthday
washout process
washrag gourd
wasp ant
wasp bee
wasp beetle
wasp fly
wasp nest
wasp spider
wasp waist
wasp's nest
wasp-barbed
wasp-minded
wasp-stung
wasp-waisted
wasp-waistedness
wassail bowl
wassail cup
wassermann reaction
wassermann test
waste away
waste baling
waste bank
waste bin
waste book
waste box
waste boy
waste breaker
waste bundler
waste heat
waste leaf
waste lot
waste matter
waste mold
waste no words
waste nut
waste of breath
waste of labor
waste of time
waste pallet
waste pipe
waste product
waste the opportunity
waste the precious hours
waste time
waste time in regret
waste waste
waste well
waste your breath
waste-cleaning
waste-dwelling
waste-heat boiler
waste-heat drier
waste-paper
waste-thrift
waste-wax process
wasted away
wasted loins
wastepaper basket
wastes of outer space
wasting asset
wasting away
wasting disease
wasting palsy
watch adjuster
watch and wait
watch and ward
watch bell
watch bracelet
watch cap
watch chain
watch cleaner
watch coat
watch crystal
watch fire
watch fob
watch for
watch for your moment
watch glass
watch guard
watch it
watch meeting
watch movement
watch night
watch officer
watch out
watch out for
watch over
watch pocket
watch repairer
watch screw thread
watch spring
watch tackle
watch television
watch your step
watch your weight
watch-glass
watch-making
watch-night service
watchet-colored
watchful eye
watchful waiting
watching and waiting
watching brief
watching for
watching rate
watchman beetle
watchman's clock
watchman's rattle
water adder
water agrimony
water aloe
water arum
water avens
water awlwort
water back
water bag
water ballet
water bath
water bear
water bearer
water bed
water beetle
water bench
water bewitched
water bird
water biscuit
water blister
water bloom
water blue
water boat
water boatman
water bog rush
water bomb
water bottle
water bouget
water boy
water brash
water breather
water budget
water buffalo
water bug
water butt
water caltrop
water cannon
water carrier
water channel
water chestnut
water chinquapin
water clock
water closet
water color
water conservation
water cooler
water crake
water cress
water crowfoot
water cure
water cycle
water diviner
water dog
water down
water dropwort
water farmer
water fern
water fever
water flag
water flea
water flow
water fountain
water foxtail
water frame
water frontage
water furrow
water gap
water gas
water gate
water gauge
water gilder
water gilding
water glass
water god
water gods
water grass
water gum
water gun
water hair grass
water hammer
water hawthorn
water heater
water hemlock
water hen
water hole
water holly
water horehound
water hyacinth
water ice
water jacket
water jump
water kelpie
water leaf
water lemon
water lettuce
water level
water light
water lily
water lily tulip
water line
water locust
water loss
water main
water marigold
water meadow
water meadow grass
water meter
water milfoil
water mill
water mink
water mint
water moccasin
water mold
water motor
water nymph
water oak
water oat
water oats
water of ayr
water of crystallization
water of hydration
water of life
water off a duck's back
water oleander
water opossum
water ouzel
water oven
water ox
water paint
water parting
water pepper
water pimpernel
water pipe
water pipit
water pistol
water plantain
water platter
water plug
water poa
water pocket
water polo
water poppy
water power
water pox
water pump
water pumper
water purslane
water rail
water rat
water reed
water rice
water right
water sapphire
water scorpion
water set
water shield
water shrew
water skater
water ski
water sky
water slide
water smoke
water snail
water snake
water snowflake
water softener
water soldier
water sound
water spaniel
water spider
water spirit
water spot
water sprite
water sprout
water starwort
water strider
water supply
water system
water table
water tare grass
water target
water telescope
water thrush
water ton
water tortoise
water torture
water tower
water trap
water travel
water treatment
water vapor
water vapour
water vole
water wagon
water wagtail
water wave
water willow
water wings
water witch
water witcher
water witching
water works
water-bag
water-bailage
water-bailiff
water-base paint
water-bath
water-bearer
water-bearing
water-beaten
water-bed
water-bind
water-borne
water-bound
water-brain
water-break
water-breathing
water-broken
water-buck
water-butt
water-can
water-carriage
water-carrier
water-cart
water-caster
water-clock
water-closet
water-color
water-colored
water-colorist
water-colour
water-commanding
water-consolidated
water-cool
water-cooled
water-cress
water-lined
water-living
water-logged
water-loving
water-mark
water-meadow
water-measure
water-melon
water-milfoil family
water-mill
water-mint
water-nut family
water-nymph
water-packed
water-pipe
water-plantain family
water-pot
water-power engineering
water-pumping
water-purpie
water-quenched
water-rat
water-repellant
water-repellent
water-resistant
water-ret
water-rolled
water-rot
water-seal
water-sealed
water-season
water-shield family
water-shot
water-sick
water-ski
water-skied
water-skiing
water-slaked lime
water-smoke
water-soak
water-soaked
water-soluble
water-souchy
water-spout
water-spring
water-standing
water-starwort family
water-stream
water-struck
water-supply
water-supply engineer
water-supply engineering
water-sweet
water-table
water-tube boiler
water-vascular
water-vascular system
water-wagtail
water-washed
water-wave
water-waved
water-waving
water-way
water-weed
water-wheel
water-white
water-witch
waterborne infection
watered fabric
watered silk
watered steel
watered stock
watered-down
waterglass painting
watering can
watering hole
watering place
watering pot
watering-place
watering-pot
watering-pot shell
waterless cooker
proofing salt
waters of Lethe
waters of bitterness
waters of oblivion
watertight integrity
watertube boiler
watery grave
watery-colored
watery-eyed
watery-headed
watt current
watt-hour
watt-hour meter
watt-second
wave-green
wave-haired
wave-hollowed
wave-lashed
wave-laved
wave-like
wave-line
wave-making
wave-moist
wavering flame
wavering light
waving of the bloody shirt
wavy-coated
wavy-edged
wavy-grained
wavy-haired
wavy-leaved
wavy-toothed
wav consecutive
waw conversive
waw-waw
wax and wane
wax bean
wax bleacher
wax brown
wax candle
wax cloth
wax cluster
wax end
wax figure
wax flower
wax gland
wax gourd
wax insect
wax jack
wax light
wax modeler
wax modeling
wax moth
wax myrtle
wax palm
wax paper
wax pink
wax privat
wax tablet
wax tree
wax worm
wax-bearing
wax-billed
wax-chandler
wax-coated
wax-colored
wax-composed
wax-covered
wax-ended
wax-erected
wax-extracting
wax-featured
wax-finished
wax-forming
wax-headed
wax-jointed
wax-lighted
wax-polished
wax-producing
wax-red
wax-rubbed
wax-secreting
wax-shot
wax-stitched
wax-tipped
wax-topped
wax-white
wax-yellow
waxed paper
waxed tablet
waxing crescent moon
waxing moon
way back
way baggage
way beam
way bennet
way bent
way car
way chain
way enough
way freight
way in
way of dealing
way of escape
way of holding yourself
way of life
way of looking at things
way of putting
way of saying
way of seeing
way of speaking
way of the cross
way of thinking
way of understanding
way of walking
way off
way out
way passenger
way point
way shaft
way station
way thistle
way ticket
way train
way wire
way-beguiling
way-bill
way-clearing
way-down
way-god
way-haunting
way-off
way-out
way-up
way-weary
way-wise
way-wiser
way-worn
wayfaring tree
wayfaring-tree
waygoing crop
wayleave rent
ways and means
ways of the fathers
wayside cross
we happy few
we’ll see you
we-all
we-group
we-ship
we-uns
weak accumulation poi
weak as a baby
weak as a chicken
weak as a child
weak as a drink of water
weak as a kitten
weak as a mouse
weak as a rained-on bee
weak as milk and water
weak as water
weak derived set
weak ego
weak ending
weak in the upper story
weak interaction
weak knees
weak link
weak market
weak personality
weak point
weak side
weak sister
weak soul
weak stress
weak tool
weak will
weak-ankled
weak-armed
weak-backed
weak-bodied
weak-built
weak-chested
weak-chined
weak-chinned
weak-eyed
weak-fibered
weak-headed
weak=headedly
weak-headedness
weak-hinged
weak-jawed
weak-kneed
weak-kneedly
weak-kneedness
weak-legged
weak-limbed
weak-lunged
weak-minded
weak-mindedly
weak-mindedness
weak-nerved
weak-pated
weak-spirited
weak-spiritedly
weak-spiritedness
weak-stemmed
weak-stomached
weak-toned
weak-voiced
weak-willed
weak-winged
weakengrow weak
weaker sex
weaker vessel
weakness comparisons
weakness of the flesh
wealth tax
wealth-encumbered
wealth-fraught
wealth-getting
wealth-yielding
wealthy man
wean from
wean your thoughts from
wean yourself from
weaning brash
weapons of mass destruction
wear a hairshirt
wear a mask
wear an earnest frown
wear and tear
wear away
wear back
wear blinkers
wear down
wear horns
wear iron
wear land
wear limit gauge
wear mourning
wear off
wear on
wear out
wear out your welcome
wear ragged
wear sackcloth
wear sackcloth and ashes
wear ship
wear short
wear the cloth
wear the crown
wear the horn
wear the look of
wear the pants
close the uniform
wear thin
wear upon
wear upon one
wear well
wear you down
wear your heart on your sleeve
wearyour heart upon your sleeve
wear-out
caller of the cap and bells
weariness of life
wearing a hairshirt
wearing a sackcloth
wearing a sackcloth and ashes
wearing apparel
wearing arms
wearing away
callering course
wearing down
caller some sameness
wearing some trip
caller for
caller of life
caller to death
caller unto death
caller waste
caller-foot
caller-footed
caller-laden
caller-looking
caller-winged
caller-worn
caller cat
caller coot
caller lemur
caller out
caller spider
caller word
caller words
caller-faced
caller-worded
caller anchor
caller back
caller balloon
caller bow
caller box
caller breeder
weather bureau
weather cast
weather caster
weather chart
weather cloth
weather deck
weather eye
weather forecast
weather forecaster
weather front
weather gall
weather gauge
weather helm
weather house
weather instrument
weather joint
weather map
weather out
weather prophet
weather rail
weather reconnaissance
weather reconnaissance plane
weather report
weather roll
weather satellite
weather science
weather scientist
weather sheet
weather ship
weather side
weather signal
weather slating
weather stain
weather station
weather strip
weather stripping
weather tack
weather the storm
weather tide
weather vane
weather wheel
weather wisdom
weather-battered
weather-beaten
weather-bitt
weather-bitten
weather-bound
weather-breeding
weather-driven
weather-eaten
weather-eye
weather-fagged
weather-fast
weather-fend
weather-free
weather-glass
weather-going tide
weather-guard
weather-hardened
weather-headed
weather-reporting network
weather-scarred
weather-slated
weather-stayed
weather-strip
weather-stripped
weather-stripping
weather-tanned
weather-wasted
weather-wise
weatherboard house
weathered joint
weathered oak
weave bead
weave peace between
weave your way
weaver finch
weaver shell
weaver's hitch
weaver's knot
weazen-faced
web foot
web frame
web glazing
web lead
web maker
web member
web of intrigue
web perfecting press
web press
web printing
web saw
web spinner
web stiffener
web wheel
web-beam
web-fed
web-fed press
web-fingered
web-foot
web-footed
web-footedness
web-glazed
web-perfecting
web-toed
web-winged
web-worked
webbing moth
weber turn
wedded bliss
wedded pair
wedded state
wedded status
wedded to
wedded to poverty
wedded wife
wedding anniversary
wedding attendant
wedding breakfast
wedding cake
wedding canopy
wedding chest
wedding clothes
wedding day
wedding dinner
wedding flower
wedding gown
wedding guest
wedding journey
wedding knot
wedding march
wedding party
wedding ring
wedding sheet
wedding song
wedding veil
wedge bone
wedge character
wedge gauge
wedge gearing
wedge heel
wedge in
wedge-bearing
wedge-billed
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weep with
weep with them that weep
weeping and gnashing of teeth
weeping ash
weeping beech
weeping cross
weeping eczema
weeping golden bell
weeping honey locust
weeping lantana
weeping myall
weeping pea tree
weeping willow
weeping-ripe
weese-allan
weet-weet
weft fork
weft knitting
weft sorter
weft-knit
weft-knitted
weigh against
weigh anchor
weigh beam
weigh down
weigh heavy
weigh heavy on
weigh heavy upon
weigh in
weigh in the balance
weigh lightly
weigh on
weigh one thing against another
weigh out
weigh scales
weigh upon
weigh with
weigh you down
weigh your words
weigh-bridge
weigh-in
weigh-out
weigh-scale
weighbar shaft
weighed down
weighed upon
weighing down
weighing instrument
weighing instruments
weighing machine
weighing-in
weighing-out
weight cloth
weight control
weight density
weight down
weight down with
weight down with ornament
weight lifter
weight lifting
weight playing
weight voltameter
weight watcher
weight-bearing
weight-carrying
weight-lifting
weight-measuring
weight-raising
weight-resisting
weight-watch
weight-watching
weighted down
weighting down
weir basin
weir box
weird sisters
weird-fixed
weird-looking
weird-set
weiss beer
welch plug
welcome as the roses in May
welcome mat
welcome release
welcome wagon
weld metal
welder's mask
welding blowpipe
welding engineer
welding powder
welding rod
welding torch
welfare aid
welfare capitalism
welfare cases
welfare client
welfare clients
welfare families
welfare payments
welfare program
welfare rolls
welfare state
welfare stater
welfare statism
welfare statist
welfare work
welfare worker
welkin eye
welkin-high
well I never
well I never!
well afford
well and good
well boat
well borer
well casing
well cress
well decker
well done
well driller
well drilling
well enough
well fern
well house
well in
well in hand
well log
well met
well off
well out
well out of
well over
well provided for
well rig
well room
well shrimp
well sinker
well smack
well staircase
well sweep
well to do in the world
well to live
well to pass
well tomb
well trap
well turned-out
well up on
well vessel
well water
well worship
well worth the money
well-able
well-abolished
well-abounding
well-absorbed
well-abused
well-accented
well-accentuated
well-accepted
well-accommodated
well-accompanied
well-accomplished
well-accorded
well-according
well-accoutered
well-accredited
well-accumulated
well-accustomed
well-achieved
well-acknowledged
well-acquainted
well-acquired
well-acted
well-adapted
well-addicted
well-addressed
well-adjusted
well-administered
well-admitted
well-adopted
well-adorned
well-advanced
well-adventured
well-advertised
well-advertized
well-advised
well-advocated
well-affected
well-affectedness
well-affectioned
well-affirmed
well-afforded
well-aged
well-agreed
well-agreeing
well-aimed
well-aired
well-alleged
well-allied
well-allotted
well-allowed
well-alphabetized
well-altered
well-amended
well-amused
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well-ancestrored
well-anchored
well-anear
well-ankled
well-anealed
well-annotated
well-announced
well-anointed
well-answered
well-anticipated
well-appareled
well-apparelled
well-appearing
well-applauded
well-applied
well-appointed
well-appointedly
well-appointedness
well-appreciated
well-approached
well-appropriated
well-approved
well-arbitrated
well-arched
well-argued
well-armed
well-armored
well-armoured
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well-arranged
well-arrayed
well-articulated
well-ascertained
well-assembled
well-asserted
well-assessed
well-assigned
well-assimilated
well-assisted
well-associated
well-assorted
well-assumed
well-assured
well-attached
well-attained
well-attempered
well-attempted
well-attended
well-attending
well-attested
well-attired
well-attributed
well-audited
well-authenticated
well-authorized
well-averaged
well-avoided
well-awakened
well-awarded
well-aware
well-baby clinic
well-backed
well-baked
well-balanced
well-balanced mind
well-baled
well-bandaged
well-bang
well-banked
well-barbered
well-bargained
well-base rim
well-based
well-bathed
well-batted
well-bearing
well-beaten
well-becoming
well-bedded
well-befitting
well-begotten
well-begun
well-behated
well-behaved
well-being
well-beknown
well-believed
well-believing
well-beloved
well-beneficed
well-bent
well-beseemingly
well-bespoken
well-bested
well-bestowed
well-blacked
well-blended
well-blent
well-blessed
well-blooded
well-blown
well-bodied
well-boding
well-boiled
well-bonded
well-boned
well-booted
well-bored
well-boring
well-born
well-borne
well-bottled
well-bottomed
well-bought
well-bound
well-bowled
well-boxed
well-braced
well-braided
well-branched
well-branded
well-brawned
well-breasted
well-breathed
well-bred
well-bredness
well-brewed
well-bricked
well-bridged
well-broken
well-brooked
well-brought-up
well-browed
well-browned
well-brushed
well-built
well-buried
well-burned
well-burnished
well-burnt
well-bushed
well-busied
well-buttoned
well-caked
well-calculated
well-calculating
well-calked
well-called
well-calved
well-camouflaged
well-caned
well-canned
well-canvassed
well-cared-for
well-carpeted
well-carved
well-cased
well-cast
well-caught
well-cautioned
well-celebrated
well-cemented
well-censured
well-centered
well-centred
well-certified
well-chained
well-changed
well-chaperoned
well-characterized
well-charged
well-charted
well-chauffeured
well-checked
well-cheered
well-cherished
well-chested
well-chewed
well-chilled
well-choosing
well-chopped
well-chosen
well-chosen moment
well-churned
well-circularized
well-circulated
well-circumstanced
well-civilized
well-clad
well-classed
well-classified
well-cleansed
well-cleared
well-climaxed
well-cloaked
well-cloistered
well-closed
well-closing
well-clothed
well-coached
well-coated
well-coined
well-collected
well-colonized
well-colored
well-coloured
well-combed
well-combined
well-commanded
well-commenced
well-commended
well-committed
well-communicated
well-compactled
well-compared
well-compassed
well-compensated
well-compiled
well-completed
well-complexioned
well-composed
well-comprehended
well-concealed
well-conceded
well-conceived
well-concentrated
well-concerted
well-concluded
well-concocted
well-concorded
well-condensed
well-conditioned
well-conducted
well-conferred
well-confessed
well-confided
well-confirmed
well-connected
well-conned
well-consenting
well-conserved
well-considered
well-consoled
well-consorted
well-constituted
well-constricted
well-constructed
well-construed
well-contained
well-content
well-contented
well-contested
well-continued
well-contracted
well-contrasted
well-contrived
well-controlled
well-conveyed
well-convinced
well-cooked
well-cooled
well-coordinated
well-copied
well-corked
well-corrected
well-corseted
well-costumed
well-couched
well-counselled
well-counted
well-counterfeited
well-coupled
well-courted
well-covered
well-cowed
well-crammed
well-crated
well-credited
well-cress
well-crested
well-criticized
well-crocheted
well-cropped
well-crossed
well-crushed
well-cultivated
well-cultured
well-curbed
well-cured
well-curved
well-curried
well-cushioned
well-cut
well-cutting
well-damped
well-danced
well-darkened
well-darned
well-dealing
well-dealt
well-debated
well-deceived
well-decided
well-deck
well-decked
well-declaimed
well-decorated
well-decreed
well-deeded
well-deemed
well-defended
well-deferred
well-defined
well-delayed
well-deliberated
well-delineated
well-delivered
well-demeaned
well-demonstrated
well-denied
well-depicted
well-derived
well-descended
well-described
well-deserved
well-deserved punishment
well-deservedly
well-deserver
well-deserving
well-deservingness
well-designated
well-designed
well-designing
well-desired
well-destroyed
well-developed
well-devised
well-diagnosed
well-diffused
well-digested
well-directed
well-disbursed
well-disciplined
well-discounted
well-discussed
well-disguised
well-dish
well-dispersed
well-displayed
well-disposed
well-disposedly
well-disposedness
well-dispositioned
well-disputed
well-dissected
well-dissembled
well-dissipated
well-distanced
well-distinguished
well-distributed
well-diversified
well-divided
well-divined
well-documented
well-doer
well-doing
well-domesticated
well-dominated
well-done
well-dosed
well-drafted
well-drain
well-drained
well-dramatized
well-drawn
well-dressed
well-dried
well-drilled
well-driven
well-dragged
well-dunged
well-dusted
well-dying
well-eared
well-earned
well-earthed
well-eased
well-economized
well-edited
well-educated
well-effect
well-elaborated
well-elevated
well-eliminated
well-embodied
well-emphasized
well-employed
well-enacted
well-enchanting
well-encountered
well-encouraged
well-ended
well-endorsed
well-endowed
well-enforced
well-engineered
well-engraved
well-enlightened
well-entered
well-entertained
well-entitled
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well-erected
- well-filtered
- well-financed
- well-fined
- well-finished
- well-fitted
- well-fitting
- well-fixed
- well-flanked
- well-flattered
- well-flavored
- well-flavoured
- well-fledged
- well-fleece
- well-fleshed
- well-flooded
- well-floored
- well-floured
- well-flowered
- well-flowering
- well-focused
- well-focussed
- well-folded
- well-followed
- well-fooled
- well-foreseen
- well-forested
- well-forewarned
- well-forewarning
- well-forged
- well-forgotten
- well-formed
- well-formulated
- well-fortified
- well-fought
- well-found
- well-founded
- well-foundedly
- well-foundedness
- well-framed
- well-fraught
- well-freckled
- well-freighted
- well-frequented
- well-fried
- well-friend
- well-frightened
- well-fruited
- well-fueled
well-fuelled
well-functioning
well-furnished
well-furnishedness
well-furred
well-gained
well-gaited
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well-garmented
well-garnished
well-gathered
well-gearing
well-generated
well-gifted
well-girt
well-glossed
well-gloved
well-glued
well-going
well-gotten
well-governed
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well-graced
well-graded
well-grained
well-grass
well-grassed
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well-graved
well-gravelled
well-graven
well-greased
well-greaved
well-greeted
well-groomed
well-groomedness
well-grounded
well-grounded hope
well-grouped
well-grown
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well-guarded
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well-guided
well-guiding
well-guyed
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well-haired
well-hallowed
well-hammered
well-handicapped
well-handled
well-hardened
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well-hatched
well-havened
well-hazarded
well-head
well-headed
well-healed
well-heard
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well-heat
well-hedged
well-heeled
well-helped
well-hemmed
well-hewn
well-hidden
well-hinged
well-hit
well-hoarded
well-hole
well-holed
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well-hooped
well-horned
well-horsed
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well-hued
well-humbled
well-humbugged
well-humored
well-humoured
well-hung
well-husband
well-iced
well-identified
well-ignored
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well-imagined
well-imitated
well-immersed
well-implied
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well-improved
well-improvised
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well-incurred
well-indexed
well-indicated
well-inferred
well-informed
well-inhabited
well-initiated
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well-installed
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well-instructed
well-insulated
well-insured
well-integrated
well-intended
well-intentioned
well-interested
well-interpreted
well-interviewed
well-introduced
well-invented
well-invested
well-investigated
well-ironed
well-irrigated
well-itemized
well-joined
well-jointed
well-judged
well-judging
well-judgingly
well-justified
well-kempt
well-kenned
well-kent
well-kept
well-kindled
well-knit
well-knitted
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well-knowledged
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well-labeled
well-labored
well-laboring
well-laboured
well-laced
well-laid
well-labeled
well-larded
well-launched
well-laundered
well-leaded
well-learned
well-leased
well-leaved
well-led
well-left
well-lent
well-less
well-lettered
well-leveled
well-levelled
well-levied
well-lighted
well-like
well-liked
well-liking
well-limbed
well-limited
well-limned
well-lined
well-lined purse
well-linked
well-lit
well-liveried
well-living
well-loaded
well-located
well-locked
well-lodged
well-lofted
well-looked
well-looking
well-lost
well-loved
well-lunged
well-made
well-made play
well-maintained
well-managed
well-manned
well-mannered
well-manufactured
well-manured
well-mapped
well-marked
well-marketed
well-married
well-marshalled
well-masked
well-mastered
well-matched
well-mated
well-matured
well-meanner
well-meaning
well-meaningly
well-meaningness
well-meant
well-measured
well-membered
well-mended
well-merited
well-met
well-metalled
well-methodized
well-mettled
well-milked
well-mingled
well-minted
well-mixed
well-modeled
well-modified
well-modulated
well-moduled
well-moneyed
well-moralized
well-motivated
well-motived
well-moulded
well-mounted
well-mouthed
well-named
well-narrated
well-natured
well-naturedness
well-navigated
well-near
well-necked
well-needed
well-negotiated
well-neighbored
well-nicknamed
well-nigh
well-nosed
well-noted
well-nourished
well-nursed
well-nurtured
well-oared
well-obeyed
well-observed
well-occupied
well-off
well-officered
well-oiled
well-omened
well-omitted
well-operated
well-opinioned
well-ordered
well-ordered set
well-ordering theorem
well-organised
well-organized
well-oriented
well-ornamented
well-ossified
well-outlined
well-oversen
well-packed
well-paid
well-painted
well-paired
well-paneled
well-paragraphed
well-parceled
well-parked
well-past
well-patched
well-patrolled
well-patronised
well-patronized
well-paved
well-paying
well-penned
well-pensioned
well-peopled
well-perceived
well-perfected
well-performed
well-persuaded
well-philosophized
well-photographed
well-picked
wellpictured
well-piloted
well-pitched
well-placed
well-planned
well-planted
well-played
well-plead
well-pleased
well-pleasedly
well-pleasedness
well-pleasing
well-pleasingness
well-plenished
well-plotted
well-plowed
well-plucked
well-plumaged
well-plumed
well-pointed
well-policed
well-policied
well-polished
well-polled
well-pondered
well-posed
well-positioned
well-possessed
well-posted
well-postponed
well-practiced
well-predicted
well-prepared
well-preserved
well-pressed
well-pretended
well-priced
well-primed
well-principled
well-printed
well-prized
well-professed
well-prolonged
well-pronounced
well-prophesied
well-proportioned
well-prosecuted
well-protected
well-proved
well-proven
well-provendered
well-provided
well-published
well-punished
well-pursed
well-pushed
well-put
well-puzzled
well-qualified
well-qualified
well-quartered
well-quizzed
well-raised
well-ranged
well-rated
well-read
well-read in
well-readied
well-reared
well-reasoned
well-received
well-recited
well-reckoned
well-recognised
well-recognized
well-recommended
well-recorded
well-recovered
well-refereed
well-referred
well-refined
well-reflected
well-reformed
well-rowed
well-rubbed
well-rulled
well-ruling
well-run
well-running
well-sacrificed
well-saffroned
well-sailing
well-salted
well-sanctioned
well-sanded
well-satisfied
well-saved
well-savoring
well-saying
well-scared
well-scattered
well-scented
well-scheduled
well-schemed
well-schooled
well-scolded
well-scorched
well-scored
well-screened
well-scrubbed
well-sealed
well-searched
well-seasoned
well-seated
well-secluded
well-secured
well-seeded
well-seeing
well-seeming
well-seen
well-selected
well-selling
well-sensed
well-separated
well-served
well-set
well-set-up
well-settled
well-sewn
well-shaded
well-shading
well-shafted
well-shaken
well-shaped
well-shapen
well-sharpened
well-shaved
well-shaven
well-sheltered
well-shod
well-shot
well-showered
well-shown
well-sifted
well-sighted
well-simulated
well-sinewed
well-sinking
well-situated
well-sized
well-sketched
well-skilled
well-skinned
well-smelling
well-smoked
well-soaked
well-sold
well-soled
well-solved
well-sorted
well-sounding
well-spaced
well-speaking
well-speed
well-spent
well-spiced
well-splitting
well-spoken
well-sprayed
well-spread
well-spring
well-spun
well-spurred
well-squared
well-stabilized
well-stacked
well-staffed
well-staged
well-stained
well-taxed
well-tempered
well-tenanted
well-tended
well-terraced
well-tested
well-thewed
well-thought
well-thought-of
well-thought-out
well-thrashed
well-thriven
well-thrown
well-thumbed
well-tied
well-tilled
well-timbered
well-timed
well-timed opportunity
well-tinted
well-to-do
well-toasted
well-told
well-toned
well-tongued
well-toothed
well-tossed
well-traced
well-traded
well-trained
well-translated
well-trapped
well-traveled
well-travelled
well-treated
well-tricked
well-tried
well-trimmed
well-trod
well-trodden
well-trunked
well-trussed
well-trusted
well-tuned
well-turned
well-turned periods
well-turned-out
well-tutored
well-twisted
well-typed
well-umpired
well-understood
well-uniformed
well-united
well-upholstered
well-urged
well-used
well-utilized
well-valeted
well-varied
well-varnished
well-veiled
well-ventilated
well-ventured
well-verified
well-versed
well-visualised
well-visualized
well-voiced
well-vouched
well-walled
well-wared
well-warmed
well-warned
well-warranted
well-washed
well-watched
well-watered
well-weaponed
well-wearing
well-weaved
well-weaving
well-wedded
well-weighed
well-weighing
well-whipped
well-wigged
well-willed
well-willer
well-willing
well-winded
well-windowed
well-winged
well-winnowed
well-wired
well-wish
west indies
west saxon
west wind
west wind drift
west-by
west-central
west-ender
west-endism
west-endy
west-faced
west-facing
west-going
west-india man
west-north-west
west-northwest
west-northwesterly
west-northwestward
west-south-west
west-southwest
west-southwesterly
west-southwestward
west-southwestwardly
west-turning
west-winded
west-windy
western diamondback rattlesnake
western frame
western hemisphere
western hemlock
western juniper
western mountain ash
western omelet
western paper birch
western red cedar
western roll
western sandwich
western swing
western tanager
western wool
western yellow pine
westphalian ham
westward-looking
wet behind the ears
wet blanket
wet bulb
wet cell
wet chinook
wet cleaner
wet compass
wet contact
wet cooper
wet dock
wet down
wet dream
wet fly
wet look
wet moon
wet nurse
wet pack
wet pleurisy
wet puddling
wet rot
wet season
wet snow
wet squib
wet strength
wet suit
wet to the skin
wet wash
wet weather
wet weathers
wet with sweat
wet your whistle
wet-air
wet-air pump
wet-and-dry-bulb thermometer
wet-blanket
wet-blanketing
wet-bulb
wet-bulb thermometer
wet-cell
wet-cheeked
wet-clean
wet-eyed
wet-footed
wet-lipped
wet-my-lip
wet-nurse
wet-nursed
wet-nursing
wet-pipe
wet-pipe system
wet-plate
wet-plate process
wet-process machine
wet-salt
wet-season
wet-shod
wet-worked
wether wool
wetlands conservation
wetness fraction
wetter-off
wetting agent
wetting down
wetting-out agent
wh-movement
whack down
whack off
whack up
whale barnacle
whale catcher
whale feed
whale fin
whale fisher
whale fisherman
whale fishery
whale fishing
whale food
whale iron
whale line
whale louse
whale of a difference
whale oil
whale shark
whale-backed
whale-built
whale-git
whale-headed
whale-hunting
whale-mouthed
whale-tailed
whalebone tree
whalebone whale
whaling fleet
whaling gun
whaling master
whaling port
whaling rocket
whare-kura
whare-puni
whare-wananga
wharf boat
wharf dues
wharf duty
wharf end
wharf fee
wharf fish
wharf hand
wharf laborer
wharf lumper
wharf monkey
wharf owner
wharf rat
wharf spike
wharf worker
what a life
what are the odds
what bodes
what boots it
what can be done
what can be seen
what can never be
what cannot be
what cannot happen
what do I care
what do you know
what do you know about that
what does it matter
what else is new
what for
what goes up must come down
what happens
what have you
what if
what in the world
what is coming to one
what is coming to you
what is comprised
what is condign
what is contained
what is destined
what is done
what is doomed
what is due
what is fated
what is in the books
what is included
what is merited
what is owing
what is possible
what is proper
what is revealed
what is right
what is to be
what is to come
what it is about
what it takes
what looms
what makes it tick
what makes you tick
what matter
what may be
what might be
what must not be
what of it
what on earth
what ought not be
what ought to be
what ought to be done
what should be
what should not be
what the hell
what time
what will be will be
what you are about
what you are doing
what you are responsible for
what you are worth
what you can call your own
what you can do
what you have coming
what you have earned
what you have to your name
what you may fairly call
what you may fitly call
what you may properly call
what you may well call
what you merit
what you will
what's happening
what's in
what's in it for one
what's it to you
what's its name
what's the diff
what's the difference
what's the odds
what's what
wheel bearer
wheel bug
wheel case
wheel chain
wheel chair
wheel colter
wheel control
wheel cowlings
wheel cross
wheel cultivator
wheel excavator
wheel fitter
wheel governor
wheel hoe
wheel horse
wheel lathe
wheel load
wheel load weigher
wheel lock
wheel maker
wheel man
wheel map
wheel money
wheel of chance
wheel of fortune
wheel ore
wheel organ
wheel parts
wheel pen
wheel pit
wheel plate
wheel plow
wheel rod
wheel rope
wheel scraper
wheel static
wheel stitch
wheel tracery
wheel trap
wheel tree
wheel trolley
wheel welder
wheel window
wheel-backed
wheel-barrower
wheel-broad
wheel-cut
wheel-cutting
wheel-footed
wheel-going
wheel-made
wheel-marked
wheel-mounted
wheel-resembling
wheel-shaped
wheel-smashed
wheel-spun
wheel-supported
wheel-track
wheel-turned
wheel-turning
wheel-worn
wheelbarrow race
wheeler and dealer
wheeler-dealer
wheeling and dealing
wheels within wheels
whelk tingle
whelk-shaped
when all is said and done
when as
when day is done
when hell freezes over
when in Rome do as the Romans do
when issued
when it is handy
when the chips are down
when the mood strikes
when the spirit moves
when you get around to it
when you have a minute to spare
when you have the time
when your ship comes in
when-issued
whenever you like
whenever you wish
where it's at
where the earth meets the sky
where the shoe pinches
where the sun beats
where the sun rises
where you are
where you live
where you reside
where you sit
where you stand
wherefore, the
wherever it may be
wherever you look
wherever you turn
whet slate
whet the appetite
whet the knife
whet the sword
whet your interest
whether or no
whether you will or not
whetstone slate
whetstone-shaped
whettle-bone
whew duck
whey bird
whey butter
whey cure
whey whig
whey-bearded
whey-blooded
whey-brained
whey-colored
whey-face
whey-faced
whi-Zbang
which is Not we
which is in us and all around us
which see
which way the wind blows
whidah bird
whidah finch
whiff of grapeshot
whiffle ball
while airborne
while away
while away the time
while life endures
while on the subject
while you draw breath
whim berry
whim gin
whim-proof
whim-wham
whim-whams
whin sparrow
whin-wrack
whing-ting
whip along
whip and spur
whip antenna
whip away
whip bird
whip crane
whip crop
whip gin
whip graft
whip graftage
whip grass
whip hand
whip handle
whip hoist
whip horse
whip in
whip into shape
whip line
whip maker
whip off
whip on
whip purchase
whip ray
whip rod
whip roll
whip row
whip scorpion
whip snake
whip stall
whip thread
whip top
whip up
whip yarn
whip yourself
whip-
whip-bearing
whip-corrected
whip-cracker
whip-cracking
whip-ended
whip-grafting
whip-hand
whip-jack
whip-lash
whip-marked
whip-poor-will
whip-round
whip-saw
whip-shaped
whip-stick
whip-stitch
whip-tailed
whip-tom-kelly
whip-tongue
whip-up
whip-wielding
whipbelly vengeance
whipcord willow
whiplash injury
whipped cream
whipped up
whipper-in
whipper-snapper
whippers-in
whippet tank
whipping boy
whipping cream
whipping girl
whipping post
whipping top
whipping up
whipping-boy
whipping-snapping
whipping-up
whipsy-derry
whiptail shark
whirl drill
whirl gate
whirl like a dervish
whirl the mind
whirl-
whirl-blast
whirl-shaped
whirligig beetle
whirligig mullet
whirligig of time
whirling dervish
whirling table
whirlpool bath
whirlpool nebula
whirlwinds of tempestuous fire
whirly-
whisk broom
whisk tail
whisk-tailed
whisker boom
whisker jumper
whisker pole
whiskey jack
whiskey smash
whiskey sour
whisky cherry
whisky drinker
whisky jack
whisky john
whisky liver
whisky mac
whisky poker
whisky sour
whisky-drinking
whisky-frisky
whisky-jack
whisky-sodden
whisper glide
whisper glottis
whisper in the ear
whisper sweet nothings
whisper-soft
whispered about
whispering campaign
whispering dome
whispering gallery
whispering office
whispering pectoriloquy
whispering voice
whist drive
whistle at
whistle duck
whistle for
whistle punk
whistle stop
whistle-blower
whistle-pig
whistle-stop
whistle-stop campaign
whistle-stopper
whistle-stopping
whistlebelly vengeance
whistling buoy
whistling duck
whistling jar
whistling swan
whit sunday
white Leghorn
white dwarf star
white eardrop
white elephant
white elephant sale
white ensign
white feather
white flag
white flax
white flint
white fox
white friar
white frost
white gas
white gasoline
white globe lily
white gold
white goldenrod
white goods
white gourd
white grape
white grease
white gum
white hairs
white hake
white heat
white hole
white hope
white horde
white horehound
white horse
white horses
white house
white hunter
white iron
white iron pyrites
white lead
white lead ore
white leather
white leg
white lie
white light
white lightning
white lime
white line
white liquor
white list
white liver
white livered
white lotus
white lupine
white magic
white mahogany
white man
white man's burden
white marlin
white matter
white meat
white melilot
white metal
white moss
white mulberry
white mule
white mustard
white noise
white oak
white oil
white paper
white paternoster
white pepper
white perch
white pine
white plague
white poplar
white potato
white pottery
white power
white primary
white pudding
white race
white rainbow
white rat
white room
white rose
white rose mallow
white rot
white russian
white rust
white sage
white sale
white salmon
white sandalwood
white sapote
white sapphire
white sauce
white sea bass
white shark
white sidewall tire
white slave
white slaver
white slavery
white snakeroot
white sour
white space
white spirit
white spiritual
white spruce
white squall
white staff
white stork
white stuff
white sturgeon
white supremacist
white supremacy
white swamp azalea
white tassel flower
white tie
white tie and tails
white titi
white turnip
white upland aster
white vitriol
white walnut
white water
white water lily
white wax
white way
white whale
white wine
white with age
white wolf
white wood aster
white-acre
white-alder
white-alder family
white-ankled
white-ant
white-anted
white-armed
white-ash
white-backed
white-barked
white-barred
white-beaked
white-bearded
white-bellied
white-berried
white-billed
white-blood
white-blooded
white-blue
white-bodied
white-bone
white-boned
white-bordered
white-bosomed
white-breasted
white-brick
white-browed
white-brown
white-burning
white-capped
white-cell
white-cell blood
white-cheeked
white-chinned
white-churned
white-clad
white-clothed
white-coated
white-collar
white-collar intellectual
white-collar thief
white-collar worker
white-colored
white-cotton
white-cotton tree
white-crested
white-cross
white-cross diatom
white-crossed
white-crowned
white-crowned sparrow
white-domed
white-dotted
white-dough
white-ear
white-eared
white-eye
white-eyed
white-eyed vireo
white-eyelid
white-eyelid monkey
white-linen
white-lipped
white-list
white-listed
white-livered
white-liveredly
white-liveredness
white-loaf
white-looking
white-maned
white-mantled
white-marked
white-mooned
white-mottled
white-mouthed
white-mustard
white-mustard oil
white-necked
white-nosed
white-painted
white-paneled
white-petaled
white-pickle
white-pickle mosaic
white-pine
white-pine blister rust
white-pine rust
white-pine weevil
white-piped
white-plumed
white-rag
white-railed
white-rayed
white-red
white-ribbed
white-ribboned
white-ribboner
white-rinded
white-robed
white-roofed
white-ruffled
white-rumped
white-russet
white-salted
white-satin
white-set
white-sewing
white-shafted
white-sheeted
white-shouldered
white-sided
white-skin
white-skinned
white-slaver
white-slaving
white-sleeved
white-spored
white-spotted
white-stemmed
white-stoled
white-strawed
white-tail
white-tailed
white-tailed deer
white-tailed kit
white-tailed kite
white-tailed sea eagle
white-thighed
white-throated
white-throated sparrow
white-tinned
white-tipped
white-tomentose
white-tongued
white-tooth
white-toothed
white-topped
white-tufted
white-tusked
white-uniformed
white-veiled
white-veined
white-vented
white-waistcoated
white-walled
white-wanded
white-water
white-waving
white-way
white-whiskered
white-wig
white-wigged
white-winged
white-winged coot
white-winged dove
white-winged scoter
white-woolly
white-wristed
white-zoned
whitebark pine
whited sepulcher
whited sepulchre
whitening stone
whitetail deer
whitetailed deer
whitewall tire
whitewash job
whitewood bark
whiting bottle
whiting box
whiting brush
whiting can
whiting dabber
whiting filler
whiting furnace
whiting kit
whiting loader
whiting maker
whiting mill
whiting packer
whiting paste
whiting pollack
whiting pout
whiting powder
whiting sponge
whiting time
whiting tin
whitish-blue
whitish-brown
whitish-cream
whitish-flowered
whitish-green
whitish-lavender
whitish-red
whitish-tailed
whitish-yellow
whitley council
whitlow grass
whitlowwort family
whitten tree
whitty-tree
whity-brown
whity-gray
whity-green
whity-yellow
whiz about
whiz kid
whiz off
whiz-bang
whizz-bang
whizzing stick
who cares
who feel great truths
who knows
who would have thought it
who's who
who-does-what
who-whoop
whole amount
whole attention
whole ball of wax
whole bit
whole blood
whole brother
whole bunch
whole caboodle
whole deal
whole gale
whole hog
whole kit and caboodle
whole kit and kaboodle
whole life insurance
whole meglillah
whole mess
whole milk
whole note
whole number
whole offering
whole people
whole picture
whole rest
whole shmeear
whole shebang
whole shooting match
whole show
whole shtick
whole slew
whole step
whole story, the
whole time
whole tone
whole wheat
whole wheat bread
whole wheat flour
whole wide world
whole works
whole-and-half
whole-and-half compass
whole-backed
whole-bodied
whole-bound
whole-cloth
whole-colored
whole-eared
whole-eyed
whole-feathered
whole-footed
whole-headed
whole-hearted
whole-hog
whole-hogger
whole-hoofed
whole-leaved
whole-length
whole-minded
whole-mouthed
whole-or-none
whole-sail
whole-seas
whole-skinned
whole-souled
whole-souledly
whole-souledness
whole-spirited
whole-step
whole-timer
whole-tone scale
whole-wheat
whole-witted
wholesale dealer
wholesale house
wholesale murder
wholesale price
whomp up
whoop and a holler
whoop it up
whoop it up about
whoop-de-do
whoop-de-doo
whoop-de-dos
whoop-up
whooppee cup
whooper swan
whooping cough
whooping crane
whooping-cough
whoorl foot
why yes
why-not
whydah bird
wi-wi
wibble-wabble
wibble-wobble
wicked imitation
wicked, the
wicked-acting
wicked-eyed
wicked-looking
wicked-minded
wicked-speaking
wicked-tongued
wicker basket
wicker-woven
wicket dam
wicket door
wicket gate
wicket maiden
widbin pear tree
wide apart
wide as a church door
wide awake
wide away
wide berth
wide gauge
wide knowledge
wide margin
wide of the mark
wide open
wide place in the road
wide ration
wide reading
wide world
wide-a-wake
wide-abounding
wide-accepted
wide-angle
wide-angle lens
wide-nosed
wide-open
wide-open spaces
wide-open speed
wide-opened
wide-openly
wide-openness
wide-palmed
wide-patched
wide-permitted
wide-petaled
wide-pledged
wide-ranging
wide-reaching
wide-realmed
wide-resounding
wide-ribbed
wide-rimmed
wide-rolling
wide-roving
wide-row
wide-said
wide-sanctioned
wide-screen
wide-seen
wide-set
wide-shaped
wide-shown
wide-skirted
wide-sleeved
wide-sold
wide-soled
wide-sought
wide-spaced
wide-spanned
wide-spread
wide-spreaded
wide-spreadening
wide-straddling
wide-streeted
wide-stretched
wide-stretching
wide-throated
wide-toed
wide-toothed
wide-tracked
wide-veined
wide-wasting
wide-watered
wide-wayed
wide-where
wide-winding
wide-winged
wide-yawning
widely apart
widely known
widely read
widen the distance
widest dissemination
widgeon coot
widgeon grass
widow bird
widow duck
widow finch
widow fish
widow flower
widow lady
widow monkey
widow right
widow woman
widow's benefit
widow's cruse
widow's dower
widow's mite
widow's peak
widow's walk
widow's weeds
widow's-cross
widow-bench
widow-bird
widow-maker
widow-wail
widow-wail family
wie geht's
wield authority
wield the baton
wield the scepter
wield the sword
wiener roast
wiener schnitzel
wienie roast
wife in all but name
wife in name only
wife of your bosom
wife swapping
wife-awed
wife-beating
wife-bound
wife-hunting
wife-ridden
wife-to-be
wife-worn
wig block
wig sumac
wig tree
wig-wag
wiggen tree
wiggle nail
wiggle out of
wiggle the finger at
wiggle-tail
wiggle-tail cultivator
wiggle-waggle
wiggle-woggle
wiggly-waggly
wig wag flag
wig wag signal
wilcolored flowers
wild West
wild about
wild allspice
wild and woolly
wild animal
wild animals
wild ass
wild basil
wild bean
wild beast
wild beasts
wild bergamot
wild bleeding-heart
wild boar
wild brier
wild calla
wild carrot
wild cat
wild celery
wild cherry
wild chervil
wild clove
wild corn
wild date
wild deer
wild dog
wild duck
wild fig
wild flax
wild flower
wild for
wild fowl
wild geranium
wild ginger
wild goat
wild goose
wild goose chase
wild growth
wild guess
wild hollyhock
wild honeysuckle
wild horse
wild hyacinth
wild hyacn
wild hydrangea
wild imagination
wild indigo
wild ipecac
wild land
wild lettuce
wild lily-of-the-valley
wild madder
wild man
wild marjoram
wild mulberry
wild mustard
wild oat
wild oats
wild oleander
wild oleaster
wild olive
wild orange
wild ox
wild pansy
wild parsley
wild parsnip
wild passion flower
wild pennyroyal
wild pink
wild pitch
wild potato
wild pumpkin
wild radish
wild rice
wild rose
wild rosemary
wild rubber
wild rye
wild sage
wild sarsaparilla
wild senna
wild service tree
wild sheep
wild shot
wild silk
wild spikenard
wild sunflower
wild sweet pea
wild sweet potato
wild sweet william
wild thyme
wild to
wild track
wild type
wild vanilla
wild west
wild wormwood
wild-acting
wild-aimed
wild-and-woolly
wild-ass
wild-billowing
wild-blooded
wild-booming
wild-born
wild-brained
wild-bred
wild-chosen
wild-eyed
wild-fire
wild-flying
wild-fought
wild-fowl
wild-fowler
wild-fowling
wild-goose
wild-goose chase
wild-goose plum
wild-grown
wild-haired
wild-headed
wild-headedness
wild-looking
dwild-made
wild-notioned
wild-oat
wild-oat kicker
wild-phrased
wild-spirited
wild-staring
wild-warbling
wild-warring
wild-williams
wild-winged
wild-witted
wild-woven
wildcat bank
wildcat strike
wildcat well
wilderness area
wilderness preserve
wildest dream
wildest dreams
wildlife conservation
wildlife preserve
wile away
will and bequeath
will and pleasure
will and will not
will contest
will for power
will of Heaven
will of iron
will of your own
will power
will to
will to believe
will to power
will turn
will wonders never cease
will you
will-call
will-commanding
will-fraught
will-less
will-lessly
will-lessness
will-o'-the-wisp
will-o-the-wisp
will-strong
will-willet
will-with-the-wisp
will-worship
will-worshiper
willful disobedience
willful misconception
william tell
willie gow
willie hawkie
willie wagtail
willie wicket
willie-waucht
willie-waught
willing ear
willing heart
willing humor
willing mind
willing or unwilling
willingness to believe
willo'-the-wispish
willo'-the-wispy
willow acacia
willow amsonia
willow apple
willow beauty
willow beetle
willow borer
willow borer
willow buffer
willow cactus
willow cat
willow catfish
willow chafer
willow charcoal
willow cottonwood
willow family
willow fly
willow gall
willow goldfinch
willow green
willow grouse
willow herb
willow lark
willow leaf
willow leaf beetle
willow louse
willow moth
willow myrtle
willow oak
willow pattern
willow peeler
willow poplar
willow ptarmigan
willow sawfly
willow shoot
willow slug
willow slug caterpillar
willow sparrow
willow thorn
willow thrush
willow tit
willow tree
willow wand
willow warbler
willow wren
willow-bordered
willow-colored
willow-cone
willow-cone gall
willow-fringed
willow-grown
willow-herb
willow-leaved
willow-leaved jasmine
willow-shaded
willow-skirted
willow-tree money
willow-tufted
willow-veiled
willow-wielder
willow-wood
willow-wort
willy wagtail
willy-mufty
willy-nilly
willy-waa
willy-wagtail
willy-waw
willy-wicket
willy-willies
willy-willy
wilt disease
wilting coefficient
wilting percentage
wilting point
wily device
win away
win back
win by a fluke
win by a neck
win easily
win freedom
win friends
win friends and influence people
win going away
win hands down
win in a canter
win in a walk
win in a waltz
win out
win over
win the affections of
win the battle
win the bays
win the day
win the laurels
win the love of
win the palm
win the prize
win the regard of
win the start
win through
win your heart
win your spurs
wince pit
wince pot
winch driver
wincing machine
wind and weather permitting
wind around your little finger
wind arrow
wind band
wind beam
wind belt
wind blast
wind box
wind brace
wind burn
wind catcher
wind chest
wind cloud
wind colic
wind component table
wind cone
wind contusion
wind cripple
wind cutter
wind direction
wind down
wind drift
wind dropsy
wind eddy
wind egg
wind engine
wind erosion
wind flapper
wind force
wind furnace
wind gap
wind gauge
wind god
wind gods
wind guard
wind gun
wind gust
wind harp
wind hawk
wind herb
wind house
wind in
wind in and out
wind indicator
wind instrument
wind load
wind machine
wind mantle
wind marker
wind motor
wind music
wind musician
wind part
wind plant
wind poppy
wind porch
wind power
wind propulsion
wind pump
wind resistance
wind ripple
wind rose
wind sail
wind scale
wind scoop
wind scorpion
wind shaft
wind shake
wind sheet
wind shelf
wind side
wind signal
wind slash
wind sleeve
wind sock
wind sound
wind sprint
wind stack
wind stacker
wind star
wind stop
wind sucking
wind supply
wind tee
wind the horn
wind throw
wind thrush
wind tie
wind trunk
wind tunnel
wind up
wind valley
wind vane
wind wheel
wind zone
wind-bag
wind-balanced
wind-balancing
wind-beaten
wind-bell
wind-bells
wind-blazing
wind-blown
wind-borne
wind-bound
wind-broken
wind-built
wind-changing
wind-chapped
wind-clipped
wind-cutter
wind-delayed
wind-dispersed
wind-dried
wind-driven
wind-egg
wind-equator
wind-exposed
wind-fanned
wind-fast
wind-fertilization
wind-fertilized
wind-flower
wind-flowing
wind-footed
wind-force
wind-gall
wind-god
wind-grass
wind-guage
wind-gun
wind-hungry
wind-instrument
wind-instrumental
wind-instrumentalist
wind-laid
wind-lashed
wind-making
wind-nodding
wind-obeying
wind-outspeeding
wind-parted
wind-pollinated
wind-pollination
wind-propelled
wind-puff
wind-puffed
wind-raising
wind-rent
wind-rode
wind-scattered
wind-screen
wind-shake
wind-shaken
wind-shift
wind-shift line
wind-speed indicator
wind-struck
wind-stuffed
wind-sucking
wind-swept
wind-swift
wind-swung
wind-taut
wind-toned
wind-up
wind-wandering
wind-waved
wind-waving
wind-whipped
wind-wing
wind-winged
wind-worn
windblown bob
winder rod
winder-on
windfall money
windfall profit
windflower gentian
winding engine
winding frame
winding number
winding pendant
winding sheet
winding staircase
winding stick
winding strip
winding tackle
winding-sheet
windlass bitt
windmill grass
windmill orchid
windmill palm
windmill pink
windmill plane
windmill plant
windmill tower
windmill-like
window back
window bar
window bay
window board
window bole
window box
window card
window case
window catch
window cleaner
window curtain
window decoration
window decorator
window display
window dresser
window dressing
window envelope
window fixture
window fly
window frame
window furniture
window gardening
window glass
window head
window lead
window martin
window mirror
window oyster
window rocket
window sash
window screen
window seat
window shade
window shell
window show
window shutter
window sill
window sole
window space
window stile
window stool
window stop
window swallow
window tax
window trim
window trimmer
window trimming
window work
window-breaking
window-broken
window-cleaning
window-dress
window-dresser
window-dressing
window-efficiency
window-efficiency ratio
window-opening
window-rattling
window-shop
window-shopper
window-shopping
window-smashing
window-ventilating
windowless monad
windpipe-slitting art
windscrew wiper
windshield wing
windshield wiper
windsor chair
windsor knot
windsor tie
windstorm insurance
windward ebb
windward flood
windward side
windward tide
windy-aisled
windy-blowing
windy-clear
windy-footed
windy-headed
windy-looking
windy-mouthed
windy-voiced
windy-worded
wine acid
wine and dine
wine apple
wine bag
wine bar
wine biscuit
wine black
wine bush
wine butt
wine card
wine cask
wine cellar
wine cooler
wine cooper
wine ferment
wine flask
wine fly
wine fountain
wine gallon
wine garden
wine grape
wine lees
wine maker
wine making
wine measure
wine merchant
wine palm
wine party
wine plant
wine press
wine presser
wine purple
wine red
wine seller
wine shop
wine steward
wine stone
wine table
wine taster
wine tester
wine thrush
wine tun
wine vault
wine vinegar
wine whey
wine yeast
wine yellow
wine-bright
wine-cask borer
wine-colored
wine-cooler
wine-crowned
wine-cup
wine-dark
wine-drabbed
wine-drinking
wine-driven
wine-drunk
wine-hardy
wine-heated
wine-house
wine-inspired
wine-laden
wine-merry
wine-press
wine-producing
wine-red
wine-selling
wine-shaken
wine-soaked
wine-stained
wine-stuffed
wine-swilling
wine-tinged
wine-wise
wine-yielding
wing and wing
wing axis
wing back formation
wing band
wing bar
wing bay
wing bearing
wing bit
wing bolt
wing bone
wing bow
wing car
wing case
wing cell
wing chair
wing clipper
wing clipping
wing collar
wing commander
wing compass
wing cover
wing covert
wing coverts
wing dam
wing deck
wing divider
wing dividers
wing drag
wing elm
wing feather
wing flap
wing flat
wing formation
wing game
wing gap
wing gudgeon
wing it
wing jam
wing load
wing loading
wing net
wing nut
wing out ballast
wing over
wing pad
wing passage
wing petal
wing plow
wing power
wing quill
wing radiator
wing rail
wing resistance
wing rib
wing root air intake
wing roots
wing sac
wing screw
wing sheath
wing shell
wing shooting
wing shot
wing skid
wing snail
wing stopper
wing tie
wing tip
wing top
wing tract
wing transom
wing truss
wing valve
wing wale
wing wall
wing your way
wing-borne
wing-broken
wing-case
wing-clipped
wing-ding
wing-footed
wing-hoofed
wing-leafed
wing-leaved
wing-limed
wing-loose
wing-maimed
wing-margined
wing-shaped
wing-slot
wing-swift
wing-tip
wing-tip flare
wing-tip float
wing-tipped
wing-wearily
wing-weariness
wing-weary
wing-wide
wingback formation
winged chair
winged elm
winged rocket
winged spindle tree
winged-footed
winged-heeled
winged-leaved
wink at
wink of sleep
winker braces
winking cartilage
winking muscle
winkle out
winkle-pickers
winner's circle
winning gallery
winning hazard
winning opening
winning post
winning streak
winning ways
winnow cloth
winnow out
winnow sheet
winnow the chaff from the wheat
winnow-corb
winnowed out
winnowing basket
winnowing fan
winnowing machine
winter aconite
winter annual
winter apple
winter barley
winter beer
winter blight
winter bonnet
winter brake
winter bud
winter bunting
winter cherry
winter clover
winter count
winter cress
winter crookneck
winter crop
winter daffodil
winter day
winter duck
winter egg
winter fallow
winter fat
winter fever
winter flounder
winter flower
winter garden
winter geranium
winter gillyflower
winter golf
winter grape
winter green
winter gull
winter hail
winter hawk
winter heath
winter hedge
winter heliotrope
winter hellebore
winter house
winter huckleberry
winter itch
winter jasmine
winter leaf
winter lettuce
winter melon
winter mew
winter midge
winter moth
winter oats
winter of your days
winter oil
winter pear
winter pink
winter plum
winter purslane
winter quarters
winter radish
winter rocket
winter rose
winter rye
winter savory
winter shad
winter sheldrake
winter skate
winter sleep
winter snipe
winter sol
winter solstice
winter spice
winter spore
winter sports
winter squash
winter strawberry
winter sucker
winter sunscald
winter sweet
winter teal
winter tire
winter vetch
winter wagtail
winter wheat
winter wind
winter wolfsbane
winter wren
winter yellowlegs
winter's bark
winter-beaten
winter-blasted
winter-blooming
winter-boding
winter-bound
winter-chilled
winter-clad
winter-damaged
winter-fattened
winter-fed
winter-felled
winter-flowering
winter-gladdening
winter-gray
winter-ground
winter-grown
winter-habited
winter-hardened
winter-hardy
winter-house
winter-kill
winter-long
winter-love
winter-loving
winter-made
winter-old
winter-proof
winter-proud
winter-pruned
winter-quarter
winter-reared
winter-rig
winter-ripening
winter-seeming
winter-shaken
winter-sown
winter-standing
winter-starved
winter-swollen
winter-thin
winter-verging
winter-visaged
winter-wasted
winter-withered
winter-worn
wintergreen barberry
wintergreen family
wintergreen oil
wintry weather
wintry wind
wipe away the tears
wipe away your tears
wipe break
wipe breaker
wipe joint
wipe off
wipe off old scores
wipe off the map
wipe out
wipe the floor with
wipe the slate clean
wipe the smile off your face
wipe up
wipe up the floor with
wipe-off
wiped away
wire-wove
wire-woven
wired glass
wired radio
wired television
wired wireless
wirehaired pointing griffon
wirehaired terrier
wireless apparatus
wireless beacon
wireless circuit
wireless communication
wireless compass
wireless operator
wireless set
wireless telegraph
wireless telegrapher
wireless telegraphist
wireless telegraphy
wireless telephone
wireless telephony
wirewound resistor
wiring die
wiring machine
wiring press
wiring punch
wiry-brown
wiry-coated
wiry-haired
wiry-leaved
wiry-looking
wiry-stemmed
wiry-voiced
wisdom literature
wisdom tooth
wisdom-bred
wisdom-given
wisdom-giving
wisdom-led
wisdom-loving
wisdom-seasoned
wisdom-seeking
wisdom-teaching
wisdom-working
wise as Solomon
wise as a serpent
wise as an owl
wise beyond your years
wise crack
wise expression
wise fool
wise guy
wise in the ways of the world
wise in your generation
wise in your own conceit
wise man
wise man of Chelm
wise man of Gotham
wise old man
wise passiveness
wise saying
wise to
wise up
wise up to
wise-ass
wise-bold
wise-framed
wise-hardy
wise-headed
wise-heart
wise-judging
wise-lipped
wise-reflecting
wise-said
wise-spoken
wise-valiant
wise-worded
wiser head
wish for
wish fulfillment
wish fulfilment
wish on
wish to
wish to goodness
wish upon
wish very much
wish well
wish you joy
wish you luck
wish-bringer
wish-fulfilling
wish-fulfillment
wish-fulfillment fantasy
wish-giver
wish-maiden
wish-wash
wish-washy
wishbone bush
wishbone gaff
wishbone rig
wished-for
wishful belief
wishful thinker
wishful thinking
wishing bone
wishing cap
wishing stone
wishing well
wishy-washily
wishy-washiness
wishy-washy
wisp of smoke
wisteria blue
wisteria violet
wistful eye
wistful-eyed
wit tooth
wit’s end
wit-abused
wit-assailing
wit-beaten
wit-cherishing
wit-crack
wit-cracker
wit-drawn
wit-founndered
wit-fraught
wit-gracing
wit-infusing
wit-loving
wit-masked
wit-offended
wit-oppressing
wit-pointed
wit-salted
wit-snapper
wit-starved
wit-stung
wit-worn
witch alder
witch baiter
witch baiting
witch ball
witch bird
witch broom
witch burner
witch burning
witch butter
witch cake
witch chick
witch doctor
witch doctoring
witch doctory
witch doctress
witch fire
witch flounder
witch for water
witch gowan
witch grass
witch hazel
witch hobble
witch hopple
witch hunt
witch hunter
witch knot
witch light
witch lock
witch mania
witch mark
witch master
witch meal
witch moth
witch of Agnesi
witch of Endor
witch sabbath
witch stick
witch stitch
witch tree
witch's mark
witch-charmed
witch-doctor
witch-elm
witch-finder
witch-finding
witch-hazel family
witch-held
witch-hunt
witch-hunter
witch-hunting
witch-ridden
witch-stricken
witch-struck
witch-woman
witches’ Sabbath
witches’ chorus
witches’ coven
witches’ meeting
witches' sabbath
witches'-besom
witches'-broom
witchetty grub
witching hour
witching hour of the night
witching stick
with a bad grace
with a bellyful
with a bump for
with a catch to it
with a cheerful heart
with a clear conscience
with a collar on
with a difference
with a firm hand
with a flair
with a free hand
with a good grace
with a grain of salt
with a guilty conscience
with a handful of thumbs
with a head on
with a heavy hand
with a heavy heart
with a high hand
with a joker to it
with a kick
with a kicker to it
with a liking for
with a long face
with a loud voice
with a memory like a sieve
with a mind like a sieve
with a new to
with a nose for
with a poker face
with a reservation
with a right to
with a rush
with a skinful
with a sneer
with a snootful
with a sparing hand
with a stiff neck
with a straight face
with a string to it
with a strong hand
with a tight hand
with a touch of genius
with a vengeance
with a view to
with a weather eye open
with a whole skin
with a whoop and a hurrah
with a will
with a yellow streak
with abandon
with advantage
with affection
with agonizing slowness
with alacrity
with all due respect for
with all due respect to
with all haste
with all my heart
with all respect
with all speed
with all your heart
with all your love
with all your might
with an ear for
with an ear for music
with an exception
with an eye for
with an eye to
with an ill grace
with an interval
with an iron hand
with an unsparing hand
with arms akimbo
with attention
with authority
with bad grace
with bad intent
with bated breath
with bats in the belfry
with beat of drum
with beating heart
with bedroom eyes
with bells on
with both eyes closed
with both feet on the ground
with both hands
with breathless expectation
with brimming eyes
with care
with caution
with chattering teeth
with child
with clarity
with clean hands
with confidence
with constancy
with consummate skill
with contempt
with crossed bayonets
with crow's feet
with crystal clarity
with curling lip
with deliberation
with difficulty
with dignity
with dispatch
with distinction
with downcast eyes
with dragging feet
with dry eyes
with due deference
with due respect
with ears pricked up
with ears strained
with ease
with effort
with elan
with emphasis
with enough of
with enthusiasm
with everything against one
with everything against you
with everything that is in one
with everything that is in you
with exactitude
with eyes strained
with eyes suffused
with faith
with faltering steps
with fear and trembling
with feeling
with finesse
with flourish of trumpet
with flying colors
with folded hands
with foresight
with forethought
with full intent
with gaping mouth
with genius
with giant strides
with glistening eyes
with good cheer
with good faith
with good grace
with good right
with good will
with great care
with great haste
with great nicety
with gusto
with half a mind to
with halting steps
with haste
with head erect
with head held high
with heart beating high
with heart going pitapat
with heart going pitter-patter
with heart in mouth
with honor
with impunity
with indifference
with intent
with intent to deceive
with interest
with intervals
with it
with joined hands
with leaping heart
with life and spirit
with love
with low resistance
with malice aforethought
with malice prepense
with many a flirt and flutter
with many others
with might and main
with much ado
with muscles tense
with news value
with no heart
with no nonsense
with no stomach
with no time to spare
with nose in air
with nose turned up
with nothing inside
with nothing on
with one accord
with one another
with one consent
with one foot in the grave
with one voice
with one wild yell
with open arms
with open eyes
with open hands
with over-measure
with overflowing eyes
with pep
with permission
with pleasure
with precision
with premeditation
with pride
with purpose
with qualifications
with rapid strides
with rapt attention
with reason
with reference to
with regard to
with relation to
with relish
with reservations
with resignation
with respect to
with right good will
with safety
with sails spread
with satisfaction
with set jaw
with skill
with some allowance
with speed
with steerageway
with sullen mouth
with swimming eyes
with taste
with tearful eyes
with tears in eyes
with tears in your eyes
with telling effect
with that
with the Lord
with the addition of
with the assistance of
with the beat
with the best
with the exception of
with the exception that
with the help of
with the intent that
with the lark
with the saints
with the speed of light
with the stipulation
with the strong arm
with the sun
with the understanding
with the view of
with the wind
with the wind abaft the beam
with the wind aft
with this
with this proviso
with time to spare
with tongue in cheek
with total dedication
with truth
with undivided attention
with us
with utter indifference
with verve
with vim
with voice
with voice and vote
with vote
with watery eyes
with way on
with wind abeam
with young
with your back to the wall
with your eyes open
with your eyes peeled
with your family
with your fill of
with your head in the clouds
with your own petard
with your permission
with your tail between your legs
with your tongue in your cheek
with zest
with zip
with-
with-drawn
with-it
withdraw from
withdraw from the field
withdraw the charge
withdraw your support
withdrawal of attention
withdrawal sickness
withdrawal symptom
withdrawal symptoms
withdraw room
withe rod
wither away
wither-wrung
withered loins
withhold assent
withholding tax
within a stone's throw
within a styour throw
within a whoop and a holler
within an ace of
within an inch
within an inch of
within bounds
within call
within compass
within earreach
within earshot
within hail
within hearing
within means
within range
within range of
within reach
within reason
within reasonable limitations
within sight
within the bounds of possibility
within the bounds of reason
within the domain of possibility
within the frame of reference
within the framework
within the law
within the limits of reason
within the range of possibility
within the realm of possibility
within the reference system
within the scope of the law
within the universe of discourse
within these four walls
within two whoops and a holler
within your grasp
within-bound
within-door
within-named
without a break
without a change of menu
without a change of pace
without a change of scenery
without a clue
without a dissenting voice
without a minute to spare
without a name
without a nerve in your body
without a shadow of turning
without a sou
without a stitch
without a stitch on
without a stitch to one's name
without a stitch to your back
without a stitch to your name
without a tremor
without a will of your own
without any qualms
without any scruples
without any weight
without appeal
without basis
without being
without benefit of clergy
without body
without book
without bottom
without bound
without break
without care
without cease
without ceasing
without ceremony
without charge
without choice
without coercion
without compulsion
without compunction
without connection
without content
without contradiction
without date
without delay
without demur
without design
without difference
without difficulty
without distinction
without distraction
without door
without doors
without doubt
without end
without equal
without equivocation
without exception
without fail
without faith
without fear of contradiction
without fear or favor
without foundation
without further delay
without grounds
without hesitation
without hope
without intermission
without intimidation
without issue
without letup
without life
without limit
without looking back
without measure
without mercy
without nerves
without notice
without number
without omission
without parallel
without prejudice
without premeditation
without pressure
without price
without reason
without reference
without regard
without regard to
without regard to persons
without regret
without reluctance
without remorse
without reproach
without reserve
without respect to
without respect to persons
without restraint
without rhyme or reason
without shame
without sound basis
without stint
without stopping
without striking a blow
without strings
without success
without suspicion
without term
without the least delay
without the least doubt
without turning a hair
without unspotted
without vital functions
without warning
without wasting words
without willing
withy-bound
withy-woody
witloof chicory
witness box
witness corner
witness mark
witness stand
witness-box
witney nap
witty reply
witty retort
witty-brained
witty-conceited
witty-feigned
witty-pated
witty-pretty
witty-worded
wizard-woven
wizen-faced
wizen-hearted
woad vat
woad-leaved
woad-painted
wobble board
wobble pump
wobble saw
wobbling disk
woe is me
woe-begetting
woe-begone
woe-beseeen
woe-bested
woe-betrothed
woe-boding
woe-dejected
woe-delighted
woe-denouncing
woe-destined
woe-embroidered
woe-enwrapped
woe-exhausted
woe-foreboding
woe-fraught
woe-grim
woe-humbled
woe-illumed
woe-infirmed
woe-laden
woe-maddened
woe-revolving
woe-sorning
woe-sprung
woe-stricken
woe-struck
woe-surcharged
woe-threatened
woe-tied
woe-wearied
woe-weary
woe-wedded
woe-whelmed
woe-wrinkled
woeful-wan
wold mouse
wolf at the door
wolf call
wolf cub
wolf dog
wolf down
wolf eel
wolf fish
wolf fruit
wolf grape
wolf herring
wolf in sheep's clothing
wolf in the stomach
wolf madness
wolf moth
wolf note
wolf pack
wolf snake
wolf spider
wolf tooth
wolf tree
wolf willow
wolf's-bane
wolf's-head
wolf-begotten
wolf-boy
wolf-child
wolf-children
wolf-colored
wolf-dog
wolf-eel
wolf-eyed
wolf-gray
wolf-haunted
wolf-headed
wolf-hound
wolf-hunting
wolf-man
wolf-moved
wolf-scaring
wolf-shaped
wolf-slaying
wolf-suckled
wolf-fian body
wolfram lamp
wolfram ocher
wolfram steel
woman chaser
woman child
woman movement
woman of easy virtue
woman of her word
woman of honor
woman of the house
woman of the street
woman of the streets
woman of the town
woman of the world
woman suffrage
woman's editor
woman's intuition
woman's rights
woman-bearing
woman-born
woman-bred
woman-built
woman-child
woman-churching
woman-conquered
woman-daunted
woman-degrading
woman-despising
woman-easy
woman-faced
woman-fair
woman-fashion
woman-flogging
woman-governed
woman-grown
woman-hater
woman-hating
woman-headed
woman-loving
woman-mad
woman-made
woman-man
woman-murdering
woman-proud
woman-ridden
woman-servant
woman-shy
woman-suffrage
woman-suffragist
woman-tended
woman-vested
woman-wary
womb-enclosed
womb-lodged
womb-to-tomb security
women's clothing
women's hairdos
women's lib
women's libber
women's liberation
women's liberation activist
women's liberation adherent
women's liberation advocate
women's liberation movement
women's liberationist
women's magazine
women's rightist
women's rights
women's room
women's suffrage
women's chorus
won ton
won ton soup
wonder about
wonder drug
wonder drugs
wonder whether
wonder-beaming
wonder-bearing
wonder-charmed
wonder-dumb
wonder-exciting
wonder-fed
wonder-hiding
wonder-loving
wonder-mocking
wonder-promising
wonder-raising
wonder-seeking
wonder-sharing
wonder-smit
wonder-smitten
wonder-stirring
wonder-stricken
wonder-striking
wonder-struck
wood clamp
wood cleaner
wood cleaver
wood cloth
wood coal
wood coker
wood collier
wood copper
wood corn
wood cudweed
wood culver
wood daffodil
wood distiller
wood dove
wood draftsman
wood drake
wood drawing
wood dresser
wood driller
wood duck
wood duster
wood dyer
wood enameler
wood engraver
wood engraving
wood evil
wood facer
wood fagoter
wood feller
wood fern
wood fiber
wood file
wood filler
wood finisher
wood flour
wood flower
wood fretter
wood fringe
wood frog
wood gas
wood gatherer
wood germander
wood grass
wood groundsel
wood grouse
wood grower
wood grubber
wood gum
wood hair grass
wood hen
wood hewer
wood honey
wood hoopoe
wood hyacinth
wood ibis
wood instrument
wood ipecac
wood keeper
wood kingfisher
wood laborer
wood lark
wood laurel
wood leopard
wood leopard moth
wood lily
wood loader
wood lock
wood lot
wood louse
wood machine
wood machinist
wood meadow grass
wood meal
wood measurer
wood milling machine
wood mite
wood model
wood molder
wood mouse
wood naphtha
wood nettle
wood nightshade
wood nut
wood nymph
wood offering
wood oil
wood oil tree
wood opal
wood owl
wood packing
wood painting
wood paper
wood parenchyma
wood partridge
wood pavior
wood pea
wood peat
wood pegger
wood pennyroyal
wood pewee
wood pie
wood pigeon
wood pimpernel
wood pitch
wood planer
wood plant
wood polisher
wood port
wood pulp
wood pussy
wood quail
wood quartet
wood quintet
wood rabbit
wood range
wood rat
wood ray
wood reed
wood reed grass
wood render
wood robin
wood rose
wood rosin
wood rot
wood rush
wood sage
wood sandpiper
wood saw
wood sawyer
wood scale
wood screw
wood sheldrake
wood shock
wood shrike
wood slave
wood snail
wood snipe
wood sorrel
wood spack
wood spear grass
wood spirit
wood splitter
wood spurge
wood stain
wood stainer
wood stamp
wood star
wood stork
wood stove
wood strawberry
wood sugar
wood swallow
wood tapper
wood tar
wood tenoner
wood terrapin
wood thrush
wood tick
wood tin
wood titmouse
wood tortoise
wood trimmer
wood turner
wood turning
wood turpentine
wood vetch
wood vetchling
wood vine
wood vinegar
wood violet
wood warbler
wood wasp
wood widgeon
wood willower
wood wind
wood wool
wood wren
wood-and-water joey
wood-apple gum
wood-block
wood-block printing
wood-boring
wood-born
wood-bred
wood-built
wood-carver
wood-cased
wood-crowned
wood-cutter
wood-dried
wood-dwelling
wood-eating
wood-embosomed
wood-embossing
wood-encumbered
wood-faced
wood-fibered
wood-fringed
wood-girt
wood-hen
wood-hewing
wood-hooped
wood-kern
wood-keyed
wood-lined
wood-louse
wood-mat
wood-nep
wood-note
wood-nymp
wood-oil-tree family
wood-paneled
wood-paved
wood-pigeon
wood-planing
wood-queest
wood-quest
wood-ray parenchyma
wood-rip
wood-roofed
wood-sear
wood-sheathed
wood-skirted
wood-sorrel family
wood-sour
wood-spirit
wood-stock
wood-swallow
wood-tar pitch
wood-turning
wood-turning lathe
wood-walled
wood-wind instrument
wood-wind quartet
wood-wind quintet
woodbine green
woodbine-clad
woodbine-covered
woodbine-wrought
woodchat shrike
woodchuck day
woodcock owl
woodcock pilot
woodcock shell
woodcock snipe
woodcock soil
wooden Indian
wooden basket
wooden horse
wooden indian
wooden kimono
wooden nickel
wooden overcoat
wooden shoe
wooden shoes
wooden spoon
wooden spoonist
wooden tongue
wooden wedge
wooden-barred
wooden-bottom
wooden-faced
wooden-featured
wooden-headed
wooden-headedness
wooden-hooped
wooden-hulled
wooden-legged
wooden-lined
wooden-pinned
wooden-posted
wooden-seated
wooden-shoed
wooden-sided
wooden-soled
wooden-tined
wooden-walled
wooden-wheeled
woodgate rust
woodland brown
woodland caribou
woodland goldenrod
woodland primrose
woodland star
woodland sunflower
woods and fields
woods colt
woods cranberry
wool scour
wool spinner
wool spinning
wool sponge
wool staple
wool stapler
wool stripper
wool table
wool thistle
wool tree
wool waste
wool wax
wool-backed
wool-bearing
wool-bundling
wool-burring
wool-cleaning
wool-clipper
wool-coming
wool-drying
wool-dyed
wool-eating
wool-flock
wool-fringed
wool-gather
wool-gathering
wool-growing
wool-hetchel
wool-laden
wool-lined
wool-oerburdened
wool-pack
wool-packing
wool-pated
wool-picking
wool-producing
wool-rearing
wool-sorter's disease
wool-staple
wool-stapling
wool-white
wool-witted
wool-woofed
wool-work
woolen draper
woolen drapery
woolen mill
woolen-clad
woolen-frocked
woolen-stockinged
woollen-draper
woolly aphid
woolly bear
woolly beard grass
woolly foot
woolly mammoth
woolly manzanita
woolly worm
woolly-butted
woolly-coated
woolly-haired
woolly-haried
woolly-head
woolly-headed
woolly-headedness
woolly-leaved
woolly-looking
woolly-minded
woolly-mindedness
woolly-pated
woolly-podded
woolly-tailed
woolly-white
woolly-witted
woolsorter's disease
woolsorters' disease
woolly-headed
wootz steel
worcester china
worcester porcelain
worcestershire sauce
word accent
word arrangement
word association
word association test
word blindness
word boundary
word by word
word class
word contest
word deafness
word for word
word form
word game
word history
word hoard
word in the ear
word letter
word list
word lore
word method
word music
word musician
word of advice
word of command
word of explanation
word of honor
word of mouth
word order
word painter
word painting
word picture
word processing
word processor
word salad
word sign
word square
word stress
word study
word symbol
word time
word to the wise
word value
word-beat
word-blind
word-book
word-bound
word-breaking
word-catcher
word-catching
word-charged
word-clad
word-coiner
word-compelling
word-conjuring
word-deaf
word-dearthing
word-driven
word-for-word
word-for-word translation
word-formation
word-group
word-hoard
word-jobber
word-juggling
word-keeping
word-lore
word-of
word-of-mouth
word-of-mouth evidence
word-of-mouth success
word-paint
word-painting
word-perfect
word-pity
word-seller
word-selling
word-slinger
word-slinging
word-splitting
word-stock
word-wounded
words in their best order
words of wisdom
work a change
work a cure
work against
work against time
work as
work as a team
work at
work away
work back
work basket
work both sides of the street
work camp
work clothes
work cure
work curve
work day and night
work double hours
work double tides
work evil
work farm
work for
work for wages
work force
work function
work hard
work horse
work in
work into
work late
work lead
work like a Trojan
work like a cart horse
work like a coal heaver
work like a dog
work like a galley slave
work like a horse
work like a horse to
work like a machine
work like a slave
work load
work of Penelope
work of a master
work of a past master
work of an artist
work of art
work of fiction
work of reference
work off
work on
work out
work out a deal
work out beforehand
work over
work overtime
work release
work roller
work school
work sheet
work shift
work shoe
work shoes
work site
work socks
work song
work space
work spreading
work stock
work stone
work stoppage
work ticket
work to windward
work to your advantage
work to your will
work together
work toward
work train
work under pressure
work up
work up into a lather
work up into a passion
work up to
work upon
work week
work well
work wonders
work your fingers to the bone
work your head off
work your head to the bone
work your shift
work your way
work your way up
work yourself into a lather
work yourself into a stew
work yourself into a sweat
work yourself up
work-and-tumble
work-and-turn
work-and-twist
work-and-whirl
work-day
work-harden
work-hardened
work-hour
work-master
work-producing
work-seeking
work-shy
work-shyness
work-stained
work-stopper
work-study
work-study-play plan
work-study-play school
work-up
work-wan
work-weary
work-worn
worked out
worked up
worked up into a lather
worked-up
worker cell
worker comb
worker major
worker minor
worker of evil
worker of ill
worker-correspondent
worker-guard
worker-priest
workhouse sheeting
workhouse test
working asset
working beam
working capital
working card
working class
working day
working dog
working drawing
working face
working fit
working fluid
working force
working gauge
working girl
working hypothesis
working into a lather
working jib
working line
working load
working on
working order
working out a deal
working papers
working party
working pattern
working people
working person
working pit
working plan
working point
working principle
working proposition
working rail
working rod
working rule
working space
working stiff
working strength
working stress
working substance
working toward
working tube
working up
working week
working-capital fund
working-class
working-day
working-man
working-out
workings of the mind
workmen's compensation
workmen's compensation insurance
works committee
works council
works manager
works, the
world ash
world at large
world belt
world beyond the grave
world champion
world communion sunday
world concept
world day of prayer
world economy
world federalism
world federalist
world government
world ground
world island
world language
world line
world myth
world of fashion
world of finance
world of good
world of the dead
world point
world politics
world pound
world power
world premiere
world principle
world process
world series
world soul
world speech
world spirit
world state
world to come
world travel
world tree
world view
world war
world without end
world's oldest profession
world-abhorring
world-abiding
world-abstracted
world-accepted
world-acknowledged
world-adored
world-adorning
world-advancing
world-advertised
world-affecting
world-agitating
world-alarming
world-altering
world-amazing
world-amusing
world-animating
world-anticipated
world-applauded
world-appreciated
world-apprehended
world-approved
world-argued
world-arousing
world-arresting
world-assuring
world-astonishing
world-authorized
world-awed
world-barred
world-beater
world-beating
world-beheld
world-beloved
world-beset
world-borne
world-bound
world-braving
world-broken
world-bruised
world-building
world-burdened
world-busied
world-canvassed
world-captivating
world-celebrated
world-censored
world-censured
world-challenging
world-changing
world-charming
world-cheering
world-choking
world-chosen
world-circling
world-circulated
world-civilizing
world-classifying
world-cleansing
world-comforting
world-commanding
world-commended
world-compassing
world-compelling
world-condemned
world-confounding
world-connecting
world-conquering
world-conscious
world-consciousness
world-constituted
world-consuming
world-contemning
world-contracting
world-contrasting
world-controlling
world-converting
world-copied
world-corrupted
world-corrupting
world-covering
world-creating
world-credited
world-crippling
world-crowding
world-crushed
world-deaf
world-debated
world-deceiving
world-deep
world-defying
world-delighting
world-delivering
world-demanded
world-denying
world-depleting
world-depressing
world-describing
world-deserting
world-desired
world-desolation
world-despising
world-destroying
world-detached
world-detesting
world-devouring
world-diminishing
world-directing
world-disappointing
world-discovering
world-discussed
world-disgracing
world-dissolving
world-distributed
world-disturbing
world-divided
world-dividing
world-dominating
world-dreaded
world-dwelling
world-echoed
world-educating
world-embracing
world-emicent
world-encircling
world-ending
world-enlarging
world-enlightening
world-entangled
world-enveloping
world-envied
world-esteemed
world-excelling
world-exciting
world-famed
world-familiar
world-famous
world-menacing
world-missed
world-mocking
world-mourned
world-moving
world-naming
world-needed
world-neglected
world-nigh
world-noised
world-noted
world-obligating
world-observed
world-occupying
world-offending
world-old
world-opposing
world-oppressing
world-ordering
world-organizing
world-outraging
world-overcoming
world-overthrowing
world-owned
world-paralyzing
world-pardoned
world-patriotic
world-peopling
world-perfecting
world-pestering
world-picked
world-pitied
world-plaguing
world-pleasing
world-poisoned
world-pondered
world-populating
world-portioning
world-possessing
world-power
world-practiced
world-preserving
world-prevalent
world-prized
world-producing
world-prohibited
world-protected
world-raising
world-rare
world-read
world-recognized
world-record holder
world-redeeming
world-reflected
world-regulating
world-rejected
world-rejoicing
world-relieving
world-remembered
world-renewing
world-renowned
world-resented
world-respected
world-restoring
world-revealing
world-reviving
world-revolving
world-ridden
world-round
world-rousing
world-roving
world-ruling
world-sacred
world-sacrificing
world-sanctioned
world-sated
world-saving
world-scarce
world-scattered
world-schooled
world-scorning
world-seasoned
world-self
world-serving
world-settling
world-shaking
world-sharing
world-shocking
world-sick
world-simplifying
world-sized
world-slandered
world-sobered
world-soiled
world-spoiled
world-spread
world-stained
world-startling
world-staying
world-stirring
world-strange
world-studded
world-subduing
world-sufficing
world-supplying
world-supporting
world-surrounding
world-surveying
world-sustaining
world-swallowing
world-taking
world-taming
world-taught
world-tempted
world-tested
world-thrilling
world-tired
world-tolerated
world-tossing
world-traveler
world-troubling
world-turning
world-uniting
world-used
world-valid
world-valued
world-venerated
world-view
world-waited
world-wandering
world-wanted
world-wasting
world-watched
world-wearied
world-wearily
world-weariness
world-weary
world-welcome
world-wept
world-wide
world-widely
world-wideness
world-winning
world-wise
world-without-end
world-witnessed
world-worn
world-wrecking
worldly minded
worldly wisdom
worldly-minded
worldly-mindedly
worldly-mindedness
worldly-wise
worlds apart
worlds of
worlds-high
worm abscess
worm along
worm aneurysm
worm bark
worm brood
worm burrow
worm capsule
worm cast
worm conveyer
worm disease
worm drive
worm fence
worm fever
worm gear
worm gearing
worm grass
worm gut
worm in
worm in the apple
worm in the rose
worm lizard
worm medicine
worm moss
worm oil
worm out
worm out of
worm powder
worm punch
worm shell
worm snake
worm tea
worm thread
worm tincture
worm tube
worm wheel
worm wire
worm your way
worm yourself in
worm yourself into
worm's eye view
worm-breeding
worm-cankered
worm-consumed
worm-destroying
worm-driven
worm-eat
worm-eaten
worm-eatenness
worm-eater
worm-eating
worm-gear elevator
worm-gereed
worm-gnawed
worm-gnawn
worm-killing
worm-nest
worm-pierced
worm-resembling
worm-reserved
worm-riddled
worm-ripe
worm-shaped
worm-spun
worm-tongued
worm-wheel
worm-wheel hob thread
worm-worn
worm-wrought
wormseed mustard
wormseed oil
wormwood oil
wormwood sage
worn away
worn clothes
worn down
worn out
worn ragged
worn thin
worn to a frazzle
worn to a shadow
worn to rags
worn to the bone
worn to the bones
worn to the stump
worn to threads
worn-down
worn-out
worn-outness
worried sick
worried stiff
worried to a frazzle
worries and cares
worry along
worry beads
worry shoe
worry your head about
worry yourself
worry yourself sick
worry-carl
worse and worse
worse off
worse-affected
worse-applied
worse-bodied
worse-born
worse-bred
worse-calculated
worse-conditioned
worse-disposed
worse-dispositioned
worse-executed
worse-faring
worse-governed
worse-handled
worse-informed
worse-lighted
worse-mannered
worse-mated
worse-named
worse-natured
worse-opinionated
worse-ordered
worse-paid
worse-performed
worse-printed
worse-rated
worse-rulled
worse-satisfied
worse-served
worse-spent
worse-succeeding
worse-taught
worse-tempered
worse-thoughted
worse-timed
worse-treated
worse-typed
worse-utilized
worse-wanted
worse-wrought
worship great store by
worship idols
worship mammon
worship the golden calf
worship the ground you walk on
worship-paying
worst-affected
worst-bred
worst-cast
worst-damaged
worst-deserving
worst-disposed
worst-fashioned
worst-formed
worst-governed
worst-informed
worst-managed
worst-manned
worst-paid
worst-printed
worst-rulled
worst-served
worst-taught
worst-timed
worst-treated
worst-used
worst-wanted
worsted-stocking knave
worth a great deal
worth a king’s ransom
worth a pretty penny
worth having
worth its weight in gold
worth the money
worth your salt
worth your while
worth-while
worth-whileness
worthless as tits on a boar
worthless fellow
worthy of
worthy of faith
wot not of
wot of
wou-wou
would as leave
would as lief
would as lief as not
would be glad of
would fain do
would fain have
would rather not
would-be
would-be gentleman
would-have-been
wound chevron
wound cork
wound fever
wound fungus
wound gall
wound parasite
wound rocket
wound shock
wound string
wound to the quick
wound up
wound-dressing
wound-fevered
wound-free
wound-inflicting
wound-marked
wound-plowed
wound-producing
wound-scarred
wound-secreted
wound-up
wound-worn
wounded pride
wounds immedicable
wove paper
woven-wire
wow-wow
wowie zowie
wr-
wrack and ruin
wrack grass
wrack the nerves
wrack up
wracked with age
wrangle over
wrap about
wrap around
wrap up
wrap yourself in
wrap-
wrap-around
wrap-rascal
wrap-round
wrap-up
wrapped in
wrapped in clouds
wrapped in mystery
wrapped in thought
wrapped in wonder
wrapped up
wrapped up in
wrapped up in yourself
wrapping paper
wrapping-gown
wrath-allaying
wrath-bewildered
wrath-consumed
wrath-faced
wrath-kindled
wrath-kindling
wrath-provoking
wrath-swollen
wrath-wreaking
wrathful-eyed
wreak havoc
wreak havoc on
wreak your vengeance
wreath goldenrod
wreath shell
wreath-crowned
wreath-drifted
wreath-festooned
wreath-wrought
wreathe around
wreathed column
wreck buoy
wreck gun
wreck master
wreck of your former self
wreck-bestrewn
wringing-wet
wrinkle-coated
wrinkle-faced
wrinkle-fronted
wrinkle-furrowed
wrinkle-making
wrinkle-scaled
wrinkled like a prune
wrinkled-browed
wrinkled-cheeked
wrinkled-leaved
wrinkled-old
wrinkled-shelled
wrinkled-visaged
wrist clonus
wrist drop
wrist joint
wrist pin
wrist plate
wrist shot
wrist watch
wrist-drop
writ of assistance
writ of certiorari
writ of election
writ of error
writ of execution
writ of extent
writ of habeas corpus
writ of privilege
writ of prohibition
writ of protection
writ of right
writ of summons
write a letter
write between the lines
write destination
write down
write home about
write in
write in prose
write into your will
write off
write out
write poetry
write prose
write to
write up
write up a report
write upon
write your own ticket
write yourself a man
write-down
write-in
write-in campaign
write-in vote
write-off
write-up
writer to the signet
writer's block
writer's cramp
writer's itch
writer's palsy
writer's spasm
writer-in-residence
writing board
writing brush
writing cabinet
writing case
writing desk
writing exercise
writing expert
writing fluid
writing frame
writing ink
writing lesson
writing machine
writing machines
writing master
writing material
writing materials
writing on the wall
writing pad
writing paper
writing reed
writing room
writing set
writing stamps
writing style
writing system
writing systems
writing table
writing tablet
writing telegraph
writing-table
writing paper
written character
written communication
written constitution
written down
written examination
written hand
written language
written law
written matter
written music
wrong conduct
wrong construction
wrong font
wrong foot
wrong fount
wrong impression
wrong linking
wrong move
wrong name
wrong number
wrong side
wrong side of your face
wrong side out
wrong step
wrong time
wrong use
wrong-directed
wrong-doer
wrong-ended
wrong-endedness
wrong-feigned
wrong-foot
wrong-gotten
wrong-grounded
wrong-headed
wrong-headedly
wrong-headedness
wrong-jawed
wrong-minded
wrong-mindedly
wrong-minedness
wrong-ordered
wrong-principled
wrong-screwed
wrong-thinking
wrong-timed
wrong-voting
wrong-way
x-ing
x-line
x-out
x-radiation
x-ray
x-ray astronomy
x-ray crystallography
x-ray photograph
x-ray photography
x-ray star
x-ray therapy
x-ray tube
x-shaped
x-stretcher
x-unit
xanth-
xanthd-
xanthene dye
xanthic acid
xantho-
xanthoproteic acid
xaverian brother
xen-
oxenic acid
xeno-
oxon hexafluoride
xenon tetrafluoride
xer-
xero-
xeroderma pigmentosum
xi-particle
xiphi-
xiphoid process
xyl-
xylem parenchyma
xylem ray
xylene blue
xylc acid
xylite oil
xylo-
xyloglyphic artist
xylonic acid
y chromosome
y tile
y-
y-axes
y-axis
y-bake
y-blend
y-blennies
y-blenny
y-blent
y-cast
y-clept
y-end
y-painted
y-pointing
y-rapt
y-scalded
y-ssed
y-warn
ya-ta-ta
yaba bark
yacca gum
yacht berth
yacht builder
yacht chair
yacht club
yacht decorator
yacht designer
yacht engineer
yacht ensign
yacht gear
yacht propeller
yacht race
yacht racing
yacht rigging
yacht rope
yacht squadron
yacht-built
yachtman's anchor
yackety-yack
yackety-yak
yackety-yakked
yackety-yakking
yak-yak
yakety-yak
yakety-yakked
yakety-yakking
yakity-yak
yakkety-yak
yam bean
yam family
yam potato
yam stick
yam tree
yam-root
yammer yawp
yang-kin
yankee-doodle
yap at
yapp binding
yard boy
yard cleaner
yard donkey
yard engineer
yard foreman
yard goods
yard grass
yard inspector
yard laborer
yard locomotive
yard lumber
yard of ale
yard porter
yard regulator
yard rope
yard rush
yard scavenger
yard signalman
yard slings
yard sweeper
yard tackle
yard trader
yard up
yard-arm
yard-broad
yard-deep
yard-long
yard-long bean
yard-measure
yard-of-ale
yard-square
yard-thick
yard-wand
yard-wide
yardarm to yardarm
yarding engine
yarn baller
yarn bleacher
yarn boiler
yarn buncher
yarn bundler
yarn carrier
yarn conditioner
yarn croft
yarn dresser
yarn dryer
yarn dyer
yarn finisher
yarn inspector
yarn packer
yarn printer
yarn reel
yarn reeler
yarn remover
yarn sizer
yarn sorter
yarn spinner
yarn spinning
yarn spreader
yarn stretcher
yarn stripper
yarn tester
yarn twister
yarn warper
yarn washer
yarn waste
yarn weigher
yarn winder
yarn-boiling
yarn-cleaning
yarn-dye
yarn-dyed
yarn-measuring
yarn-mercerizing
yarn-spinning
yarn-testing
yate tree
yaw off
yaw shrub
yaw-haw
yaw-sighted
yaw-ways
yaw-yaw
yawl boat
yawl-rigged
yawning abyss
yawning chasm
yawning depths
yay big
ye do
yell at
yell bloody murder
yell out
yell to high heaven
yell yourself hoarse
yellow Chartreuse
yellow alert
yellow bell
yellow belly
yellow bile
yellow birch
yellow blindness
yellow book
yellow brass
yellow bush
yellow cake
yellow calla lily
yellow camomile
yellow carmine
yellow cedar
yellow complexion
yellow copper ore
yellow cypress
yellow daisy
yellow dog
yellow enzyme
yellow fever
yellow flag
yellow foxglove
yellow gentian
yellow goatfish
yellow gold
yellow granadilla
yellow grass
yellow grease
yellow honeysuckle
yellow jack
yellow jacket
yellow jasmine
yellow jaundice
yellow jessamine
yellow journal
yellow journalism
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yellow lady’s-slipper
yellow lead ore
yellow light
yellow line
yellow locust
yellow loosestrife
yellow madder
yellow man
yellow mandarin
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yellow pine
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yellow poplar
yellow prussiate of potash
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yellow rust
yellow skin
yellow spot
yellow star
yellow stonecrop
yellow streak
yellow stuff
yellow trillium
yellow tuft
yellow warbler
yellow water lily
yellow-aproned
yellow-armed
yellow-backed
yellow-banded
yellow-bark
yellow-bark oak
yellow-barked
yellow-barred
yellow-beaked
yellow-bearded
yellow-bellied
yellow-bellied sapsucker
yellow-bellied woodpecker
yellow-belly
yellow-billed
yellow-billed cuckoo
yellow-billed magpie
yellow-black
yellow-blossomed
yellow-blotched
yellow-bodied
yellow-breasted
yellow-breasted chat
yellow-browed
yellow-brown
yellow-capped
yellow-centered
yellow-checked
yellow-cheeked
yellow-chinned
yellow-collared
yellow-colored
yellow-complexioned
yellow-covered
yellow-crested
yellow-cross
yellow-cross liquid
yellow-crowned
yellow-crowned night heron
yellow-daisy
yellow-dog
yellow-dog contract
yellow-dotted
yellow-dun
yellow-dye
yellow-dye tree
yellow-dyed
yellow-eeded
yellow-earth
yellow-eye
yellow-eyed
yellow-eyed grass
yellow-eyed-grass family
yellow-faced
yellow-feathered
yellow-fever
yellow-fever fly
yellow-fever mosquito
yellow-fin
yellow-fingered
yellow-finned
yellow-flagged
yellow-fleeced
yellow-fleshed
yellow-flowered
yellow-flowering
yellow-footed
yellow-fringed
yellow-fronted
yellow-fruitet
yellow-funneled
yellow-girted
yellow-gloved
yellow-green
yellow-green alga
yellow-haired
yellow-hammer
yellow-handed
yellow-headed
yellow-headed blackbird
yellow-hilted
yellow-horned
yellow-hosed
yellow-jerkined
yellow-labeled
yellow-leaved
yellow-legged
yellow-legger
yellow-legginged
yellow-lettered
yellow-lit
yellow-locked
yellow-lustered
yellow-maned
yellow-marked
yellow-necked
yellow-nosed
yellow-olive
yellow-orange
yellow-painted
yellow-papered
yellow-pinioned
yellow-pyed
yellow-rayed
yellow-red
yellow-ringed
yellow-ringleted
yellow-ripe
yellow-robed
yellow-rooted
yelly-hoo
yelly-hooing
yelp at
yen for
yeoman of the guard
yeoman service
yeoman's service
yeomen of the guard
yerba buena
yerba mansa
yerba mate
yerba reuma
yerba sagrada
yerba santa
yerba-mate
yerk out
yes indeed
yes indeedy
yes ma'am
yes man
yes sir
yes sirree
yes-and-no answer
yes-man
yes-no
yes-noer
yes-noism
yeshiva bocher
yester-
yester-year
yesterday and today and forever
yet again
yew berry
yew family
yew green
yew pine
yew tree
yew-besprinkled
yew-crested
yew-hedged
yew-leaved
yew-roofed
yew-shaded
yew-treed
yi tsing ware
yield a profit
yield again to
yield an aroma
yield an odor
yield assent
yield hope
yield point
yield strength
yield stress
yield the floor
yield the ghost
yield the palm
yield the spirit
yield to
yield to despair
yield to maturity
yield value
yield your breath
yielding a return
yielding prop
yill-caup
ylang-ylang
yo-heave-ho
yo-ho
yo-ho-ho
yo-kyoku
yo-yo
yoga trance
yohimbe bark
yoke bone
yoke devil
yoke elm
yoke front
yoke method
yoke riveter
yoke with
yoke-footed
yoke-toed
yolk bag
yolk boi
yolk cord
yolk duct
yolk gland
yolk nucleus
yolk plate
yolk plug
yolk sac
yolk stalk
yolk yellow
yom kippur
yom tob
young buck
young cat
young chicken
young cow
young creature
young deer
young devil
young dog
young duck
young frog
young fry
young fustic
young generation
young goat
young goose
young hopeful
young horse
young hyson
young insect
young lady
young man
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young people
young person
young pig
young sheep
young thing
young turk
young whippersnapper
young woman
young-bladed
young-chinned
young-conscienced
young-counseled
young-eyed
young-headed
young-ladydom
young-ladyfied
young-ladyhood
young-ladyish
young-ladyism
young-ladylike
young-ladyship
young-looking
young-manhood
young-manlike
young-manliness
young-manly
young-mannish
young-mannishness
young-manship
young-old
young-winged
young-womanhood
young-womanish
young-womanishness
young-womanlike
young-womanly
young-womanly
young-womanlike
young-womanly
young-yeared
younger generation
youngest-born
your adieux
your all
your ancestors
your applecart
your best
your best effort
your best endeavor
your betters
your blind side
your blood
your crowd
your cup of tea
your days are numbered
your doom is sealed
your due
your fathers
your grain
your head off
your hour
your hour is come
your last hour
your level best
your native ground
your native heath
your native place
your number is up
your own choice
your own discretion
your own initiative
your own level
your own man
your own will
your race is run
your ribs
zeal-inflamed
zeal-inspiring
zeal-pretending
zeal-quenching
zeal-scoffing
zeal-transported
zeal-worthy
zebra antelope
zebra bird
zebra caterpillar
zebra crossing
zebra finch
zebra fish
zebra grass
zebra opossum
zebra parakeet
zebra plant
zebra poison
zebra shark
zebra spider
zebra swallowtail
zebra wolf
zebra-back
zebra-plant
zebra-tailed
zebra-tailed lizard
zebrwood family
zebu cattle
zee bar
zeeman effect
zenaida dove
zend-avesta
zenith blue
zenith collimator
zenith distance
zenith point
zenith sector
zenith star
zenith telescope
zenith tube
zenith-pole
zenith-pole arc
zenith-star arc
zenithal projection
zephr worsted
zephyr cloth
zephyr flower
zephyr lily
zephyr shawl
zephyr shirting
zephyr worsted
zephyr yarn
zephyr-fanned
zephyr-haunted
zephyr-kissed
zero ablat grade
zero algebra
zero beat
zero day
zero element
zero fleck
zero grade
zero gravity
zero grazing
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zero in
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zero magnet
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zero oil
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zero potential
zero set
zero stage
zero stem
zero thrust pitch
zero tone
zero torque pitch
zero vector
zero weather
zero-dimensional
zero-divisor
zero-lift
zero-lift angle
zero-point energy
zero-rated
zero-thrust pitch
zero-zero
zeroth law of thermodynamics
zeta function
zetetic philosophy
zig and zag
zigzag course
zigzag fence
zigzag path
zigzag rule
zigzag-fashion
zigzag-lined
zigzag-shaped
zila parishad
zimocca sponge
zinc alkyl
zinc amide
zinc blende
zinc bloom
zinc bromide
zinc carbonate
zinc chloride
zinc chromate
zinc chrome
zinc crust
zinc dust
zinc engraving
zinc etching
zinc ethide
zinc ethyl
zinc fixer
zinc flowers
zinc gray
zinc green
zinc methide
zinc methyl
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zinc orange
zinc oxide
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zinc sender
zinc spar
zinc spinel
zinc standard cell
zinc stearate
zinc sulfate
zinc sulfide
zinc sulphate
zinc sulphide
zinc vitriol
zinc white
zinc yellow
zinc-coated
zinc-etched
zinc-lined
zinc-roofed
zinc-sampler
zinco-
zinco-polar
zip code
zip fastener
zip gun
zip through
zip up
zircon lamp
zircon light
zircon-syenite
zirconium dioxide
zirconium oxide
zo-
zodiacal constellation
zodiacal light
zona pellucida
zonae pellucidae
zonal soil
zone axis
zone catalogue
zone fire
zone line
zone melting
zone of communications
zone of fire
zone of interior
zone of no signal
zone phenomenon
zone plate
zone refining
zone system
zone tariff
zone time
zone-confounding
zone-marked
zone-tailed
zoning act
zoning commission
zoning law
zoning laws
zoning ordinance
zonked out
zono-
zoo-
zoo-ecologist
zoo-ecology
zoogenic infection
zoological garden
zoom binoculars
zoom in
zoom lens
zoom shot
zoot suit
zoot-suiter
zwitter ion
zyg-
zygo-
zygomatic arch
zygomatic bone
zygomatic process
zym-
zymo-

Found in path(s):
* /opt/cola/permits/1148334320_1619154309.62/0/words-3.0-22.el7-1.src.rpm-cosi-expand-archive-
QubZF6jA/mwords.tar.Z-cosi-expand-archive-81hGVEu8/mwords/256772co.mpo

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QubZF6jA/words.spec

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-parous
-path
-pathy
-pede
-petal
-phage
-phagy
-phane
-phasia
-phile
-philia
-philous
-phobe
-phone
-phony
-phore
-phyll
-phyllous
-phyte
-plasia
-plasm
-plast
-plastic
-plasty
-pod
-podium
-proof
-pterous
-rhoea
-rhagia
-rhoea
-ry
-scope
-sepalous
-ship
-some
-sophy
-sperm
-st
-stat
-ster
-stichous
-stome
-stomy
-stress
-taxis
Aalst
Aalto
Aarau
Aargau
Aarhus
Aaron
Aaron's rod
Aaronic
Ab
Abadan
Abaddon
Abba
Abbasid
Abbevillian
Abbey Theatre
Abdias
Abdul-Hamid II
Abednego
Abel
Abelard
Abeokuta
Aberdare
Aberdeen
Aberdeen Angus
Abib
Abidjan
Abigail
Abilene
Abingdon
Abnaki
Abney level
Abraham
Abruzzi
Absalom
Abu Simbel
Abu-Bekr
Abukir
Abydos
Abyssinia
Abyssinian cat
Ac
Acadia
Acadian
Acapulco
Accad
Accra
Aceldama
Achaea
Achaean
Achaean League
Achaemenid
Achates
Achelous
Achernar
Acheron
Achilles
Achilles heel
Achilles tendon
Achitophel
Acis
Aconcagua
Acre
Acrilan
Actaeon
Actium
Acton
Acts of the Apostles
Adam
Adam's ale
Adam's apple
Adam's-needle
Adam-and-Eve
Adamic
Adamite
Adams
Adams-Stokes syndrome
Adana
Adapa
Adar
Adar Sheni
Addams
Addington
Addis Ababa
Addison
Addison's disease
Addressograph
Adelaide
Aden
Adenauer
Adige
Adigranth
Adirondack Mountains
Adler
Adm.
Admetus
Admiralty Islands
Albi
Albigenses
Albinus
Albion
Alboin
Albuquerque
Alcaeus
Alcaic
Alcan Highway
Alcatraz
Alceste
Alcestis
Alcibiades
Alcides
Alcmene
Alcoholics Anonymous
Alcoran
Alcott
Alcuin
Aleyone
Ald.
Aldan
Aldebaran
Alderney
Aldershot
Aldine
Aldus Manutius
Alecto
Aleksandropol
Aleksandrovsk
Alemanni
Alemannic
Aleppo
Aleppo gall
Alessandria
Aleut
Aleutian
Aleutian Islands
Alexander
Alexander Archipelago
Alexander I
Alexander I Island
Alexander II
Alexander III
Alexander Nevski
Alexander VI
Alexander the Great
Alexandra
Alexandretta
Alexandria
Alexandrian
Alexandrine
Alexis Mikhailovich
Alfieri
Alfonso XIII
Alfred the Great
Alg.
Algeciras
Alger
Algeria
Algerian
Algiers
Algol
Algonkian
Algonquian
Algonquin
Algonquin Park
Alhambra
Ali
Ali Baba
Ali Pasha
Alicante
Alice blue
Aligarh
Alkmaar
Alkoran
All Fools' Day
All Saints' Day
All Souls' Day
Allah
Allahabad
Allan-a-Dale
Allegheny Mountains
Allen
Allen wrench
Allenby
Allentown
Allhallowmas
Allhallows
Allhallowtide
Allier
Alloway
Alma-Ata
Alma-Tadema
Almagest
Almanach de Gotha
Alnico
Alost
Alpha
Alpha Centauri
Alpheus
Alphonsus
Alpine
Alps
Alsace
Alsace-Lorraine
Alsatia
Alsatian
Alta.
Altai Mountains
Altaic
Altair
Altamira
Altdorf
Altdorfer
Althing
Altona
Alundum
Alva
Alzheimer's disease
Am
Am.
Amagasaki
Amaelekite
Amarillo
Amaryllis
Amati
Amazon
Amazonas
Ambala
Amboina
Amboise
Ambrose
Ambrosian chant
Amen
Amen-Ra
Amenhotep III
Amenhotep IV
Amer.
America
America's Cup
American
American Beauty
American Expeditionary Forces
American Indian
American Revised Version
American Revolution
American Samoa
American Standard Version
American Stock Exchange
American aloe
American chameleon
American cheese
American cloth
American eagle
American plan
American saddle horse
American trypanosomiasis
American water spaniel
Americana
Americanism
Americanist
Americanize
Americano
Amerigo Vespucci
Amerind
Amersfoort
Amhara
Amharic
Amherst
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Amis
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Amman
Ammon
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Amor
Amos
Amoy
Amphitrite
Amphitryon
Amritsar
Amsterdam
Amu Darya
Amundsen
Amur
Amytal
An
Anabaptist
Anacreon
Anacreontic
Anaheim
Anglia
Anglian
Anglican
Anglican Church
Anglicanism
Anglise
Anglicism
Anglicist
Anglicize
Anglo-
Anglo-American
Anglo-Catholic
Anglo-French
Anglo-Indian
Anglo-Irish
Anglo-Norman
Anglo-Saxon
Anglomania
Anglophone
Anglophobe
Anglophobia
Angola
Angora
Angora cat
Angora goat
Angora rabbit
Angra Mainyu
Angra do Heroismo
Anguilla
Angus
Angus Og
Anhalt
Anhwei
Anjou
Ankara
Anking
Ann Arbor
Anna
Annam
Annamese
Annapolis
Annapolis Royal
Annapurna
Anne
Anne Boleyn
Anne of Austria
Anne of Bohemia
Anne of Cleves
Annecy
Anschauung
Anschluss
Anselm
Ansermet
Antabuse
Antaeus
Antakiya
Antalya
Antananarivo
Antarctic
Antarctic Circle
Antarctic Ocean
Antarctic Peninsula
Antarctic Zone
Antarctica
Antares
Anthony
Anthony of Padua
Anti-Lebanon
Antibes
Antichrist
Anticosti
Antietam
Antifederalist
Antigone
Antigonus I
Antigua
Antilles
Antioch
Antiochus III
Antiochus IV
Antipater
Antipodes
Antisana
Antisthenes
Antlia
Antofagasta
Antoinette
Antoninus
Antoninus Pius
Antonius
Antony
Antony and Cleopatra
Antrim
Antung
Antwerp
Anu
Anubis
Anuradhapura
Anvers
Anzac
Anzio
Aorangi
Apache
Aparri
Apeldoorn
Apelles
Apennines
Aphrodite
Apia
Apis
Apo
Apoc.
Apocalypse
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Apollinaire
Apollo
Apollo Belvedere
Apollonian
Apollonius
Apollo
Apostles’ Creed
Apostolic Fathers
Apostolic See
Appalachia
Appalachian
Appalachian Mountains
Appaloosa
Appenzell
Appian Way
Appleton
Appleton layer
Appomattox
Apr.
April
April fool
Apuleius
Apulia
Apure
Apus
Aqaba
Aquarius
Aquila
Aquileia
Aquinas
Aquitaine
Ar
Ar Rimal
Ar.
Ara
Arab
Arab League
Arab.
Arabia
Arabia Deserta
Arabian
Arabian Desert
Arabian Sea
Arabian camel
Arabic
Arabic numerals
Arabist
Araby
Arachne
Arad
Arafura Sea
Aragats
Aragon
Aral Sea
Aram
Aramaic
Aranyaka
Arapaho
Ararat
Aras
Araucania
Araucanian
Arawak
Arawakan
Arawn
Arakes
Arbela
Arbil
Arbuthnot
Arcadia
Arcadian
Arch.
Archaean
Archaeozoic
Archangel
Archean
Archeozoic
Archer
Assiut
Associated Press
Assuan
Assur
Assurbanipal
Assyr.
Assyria
Assyrian
Assyriology
Astaire
Astarte
Asti
Astolat
Aston
Astor
Astoria
Astrakhan
Asturias
Astyanax
Asur
Aswan
Asyut
At
Atabrine
Atacama Desert
Atahualpa
Atalanta
Athbara
Ate
Aten
Athabaska
Athamas
Athanasian
Athanasiastic Creed
Athanasius
Athapaskan
Atharva-Veda
Athislan
Athena
Athenian
Athens
Athos
Atkinson
Atlanta
Atlantean
Atlantic
Atlantic Charter
Atlantic City
Atlantic Intracoastal Waterway
Atlantic Ocean
Atlantic Provinces
Atlantis
Atlas
Atlas Mountains
Atli
Atomic Energy Commission
Aton
Atreus
Atropos
Att. Gen.
Attic
Attic salt
Attica
Atticism
Attila
Attis
Attlee
Attorney General
Attu
Au
Aube
Aubervilliers
Aubrey
Auckland
Aude
Auden
Audubon
Audubon Society
Audubon's warbler
Auer
Aug.
Augean
Augean stables
Auger effect
Augsburg
August
Augusta
Augustan
Augustine
Augustinian
Augustus
Aulic Council
Aunt Sally
Aurangzeb
Aurelian
Aurelius
Aureomycin
Auriga
Aurignacian
Auriol
Aurora
Aus.
Auschwitz
Ausgleich
Aussie
Aust.
Austen
Auster
Austerlitz
Austin
Austral.
Australasia
Australia
Australian
Australian Alps
Australian Capital Territory
Australian ballot
Australian crawl
Australian terrier
Australoid
Australopithecus
Australorp
Austrasian
Austria
Austria-Hungary
Austro-
Austroasiatic
Austronesia
Austronesian
Auth. Ver.
Authorized Version
Autoharp
Autolycus
Auvergne
Aux Cayes
Av
Avalokitesvara
Avalon
Avar
Ave
Ave Maria
Ave.
Avebury
Avellaneda
Babur
Babylon
Babylonia
Babylonian
Babylonian captivity
Bacardi
Bacchae
Bacchic
Bacchus
Bach
Bach trumpet
Bachelor of Arts
Bachelor of Science
Bacolod
Bacon
Baconian method
Bactria
Bactrian camel
Bad Godesberg
Bad Lands
Badajoz
Badalona
Baden
Baden-Powell
Badoglio
Baeda
Baedeker
Baeyer
Baez
Baffin Bay
Baffin Island
Bagdad
Bagehot
Baghdad
Baguio
Bahaism
Bahamas
Bahasa Indonesia
Bahia
Bahrain
Baikal
Bailey bridge
Bailly
Baily's beads
Bairam
Baird
Baja California
Bakelite
Bamako
Bambara
Bamberg
Banbury
Banbury cake
Band-Aid
Banda
Banda Sea
Bandaranaike
Bandung
Banff
Bangalore
Bangka
Bangkok
Bangor
Bangui
Bangweulu
Banjermasin
Bank of England
Banka
Banks
Bannister
Bannockburn
Bantam
Banting
Bantu
Bantustan
Banville
Baptist
Barabbas
Barbados
Barbarossa
Barbary
Barbary Coast
Barbary ape
Barber
Barbera
Barbirolli
Barbizon School
Barbuda
Barbusse
Barca
Barcelona
Barclay de Tolly
Bareilly
Barents Sea
Bari
Baring
Beaumont
Beaune
Beauvais
Beauvoir
Beaverboard
Beaverbrook
Bebel
Bechuana
Bechuanaland
Becket
Beckett
Beckford
Beckmann
Becquerel
Bede
Bedford
Bedford cord
Bedfordshire
Bedivere
Bedlington terrier
Bedloe's Island
Bedouin
Beecham
Beecher
Beelzebub
Beethoven
Beghard
Beguin
Beguine
Behan
Behistun
Behring
Beiderbecke
Beira
Beirut
Bel
Bel Paese
Belfast
Belfort
Belg.
Belgae
Belgian
Belgian Congo
Belgian hare
Belgium
Belgrade
Belgravia
Belial
Belisarius
Belize
Bell
Bellay
Belle Isle
Belleau Wood
Belleek
Bellerophon
Bellini
Bellinzona
Belloc
Bellona
Bellow
Bellows
Belo Horizonte
Belorussia
Belostok
Belovo
Belsen
Belshazzar
Beltane
Bemba
Ben Bella
Ben Day process
Ben Lomond
Ben Nevis
Ben-Gurion
Ben-Zvi
Benadryl
Benares
Bendigo
Benedicte
Benedict
Benedict XV
Benedictine
Benedictus
Benelux
Benevento
Beng.
Bengal
Bengal light
Bengali
Benghazi
Beni
Beni Hasan
Benin City
Benjamin
Bennett
Bennington
Benoni
Bentham
Benthamism
Bentinck
Bentley
Benton
Benue
Benue-Congo
Benzedrine
Beograd
Beowulf
Berar
Berber
Berbera
Berchtesgaden
Bercy
Berdichev
Berenice's Hair
Berenson
Berezina
Berezniki
Berg
Bergama
Bergamo
Bergen
Bergerac
Bergius
Bergman
Bergson
Bergsonism
Beria
Bering
Bering Sea
Bering Strait
Beriosova
Berkeleian
Berkeleianism
Berkeley
Berkshire
Berlin
Berlioz
Bermejo
Bermuda
Bermuda grass
Bermuda onion
Bermuda rig
Bermuda shorts
Bern
Bernadette
Bernadotte
Bernard
Bernard of Clairvaux
Bernardine
Bernese Alps
Bernese mountain dog
Bernhardt
Bernina
Bernina Pass
Bernini
Bernoulli
Bernstein
Berry
Bertillon system
Berwick
Berwick-upon-Tweed
Berzelius
Bes
Besant
Bessarabia
Bessel
Bessel function
Bessemer converter
Bessemer process
Betelgeuse
Bethany
Bethe
Bethel
Bethesda
Bethlehem
Bethsaida
Betjeman
Betti
Beulah
Beuthen
Bevan
Beveridge
Beverly Hills
Bevin
Bewick
Beyrouth
Bhagavad-Gita
Bharat
Bhili
Bhopal
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Bi
Biafra
Biak
Bialystok
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Bias
Bib.
Bibl.
Bible
Bible Belt
Bible paper
Bible school
Biblical
Biblical Latin
Biblicist
Biddle
Biedermeier
Biel
Bielefeld
Bienne
Bierce
Bifrost
Big Ben
Big Bertha
Big Board
Big Dipper
Big Five
Bihar
Bihari
Biisk
Bikaner
Bikini
Bikol
Bilbao
Bildungsroman
Bill of Rights
Billiton
Billy the Kid
Bim
Binet-Simon scale
Bingen
Binh Dinh
Bini
Bircher
Bird
Birkenhead
Bofors gun
Bogart
Bogor
Bohemia
Bohemian
Bohemian Brethren
Bohemian Forest
Bohemianism
Bohol
Bohr
Bohr atom
Bohr theory
Boiardo
Bois de Boulogne
Bois-le-Duc
Boise
Boito
Bokhara
Bol.
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Boleyn
Bolingbroke
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Bolshevist
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Boltzmann
Boltzmann constant
Bolzano
Bomarc
Bombay
Bombay duck
Bon
Bona
Bonaire
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Botswana
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Bourguiba
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Bourse
Bouvier des Flandres
Bowery
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Boyd
Boyle
Boyle's law
Boyne
Boz
Bozcaada
Bozen
Br
Br.
Brabant
Bracknell
Bradford
Bradley
Braga
Bragg
Bragg's law
Bragi
Brahe
Brahma
Brahman
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Brahmi
Brahmin
Brahms
Brahui
Braille
Brakpan
Bramante
Brancusi
Brandenburg
Brandt
Brantford
Braque
Brasil
Bratislava
Braun
Braunschweig
Braz.
Brazil
Brazil nut
Brazzaville
Breda
Breed's Hill
Bregenz
Bremen
Bremerhaven
Bren gun
Brenner Pass
Brentwood
Brescia
Breslau
Brest
Bretagne
Breton
Bretton Woods Conference
Breuer
Breughel
Brewster
Brewster chair
Brezhnev
Brian Boru
Briand
Briard
Briareus
Bride
Bridge
Bridge of Sighs
Britishism
Briton
Brittany
Brittany spaniel
Britten
Brix scale
Brao
Broad
Broad Church
Broads
Broadway
Brobdingnagian
Broca
Brocken
Broglie
Broken Hill
Bromberg
Bromley
Brno
Bronx
Bronx cheer
Bronze Age
Brook Farm
Brooke
Brooklyn
Brooklynese
Brooks Range
Brother Jonathan
Brown
Brown Shirt
Brown Swiss
Browne
Brownian movement
Browning
Browning automatic rifle
Broz
Brubeck
Bruce
Bruch
Bruckner
Brueghel
Bruges
Brumaire
Brummell
Brundisium
Brunei
Brunel
Brunelleschi
Brunhild
Bukavu
Bukhara
Bukharin
Bukovina
Bul
Bulawayo
Bulg.
Bulgarian
Bulgaria
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Bulge
Bull
Bull Run
Bullpup
Bulwer-Lytton
Buna
Bunche
Bund
Bundelkhand
Bundesrat
Bundestag
Bunin
Bunker Hill
Bunsen
Bunsen burner
Bunyan
Buonaparte
Buonarroti
Bur.
Burbage
Burberry
Burgas
Burgenland
Burgess
Burghley
Burgoyne
Burgundy
Burke
Burleigh
Burley
Burlington
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Burma Road
Burmese
Burmese cat
Burne-Jones
Burnet
Caesarea
Caesarean
Caesarean section
Caesarism
Cage
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Caiaphas
Caicos Islands
Cain
Cainozoic
Caird
Caird Coast
Cairns
Cairo
Caithness
Caius
Cajun
Cal.
Calabar
Calabar bean
Calabria
Calais
Calchas
Calcutta
Calder
Caldwell
Caledonia
Caledonian
Caledonian Canal
Calgary
Cali
Caliban
Calicut
Calif.
California
California poppy
Caligula
Callaghan
Callao
Callas
Callicrates
Callimachus
Calliope
Callisto
Calpe
Caltanissetta
Calvados
Canadian French
Canadian River
Canadian bacon
Canadian football
Canadian whiskey
Canadianism
Canal Zone
Canaletto
Canara
Canarese
Canary Islands
Canaveral
Canberra
Cancer
Candia
Candiot
Candlemas
Canea
Canes Venatici
Canicula
Canis Major
Canis Minor
Cannae
Cannes
Canning
Canopic jar
Canopus
Canossa
Canova
Canso
Cant.
Cantabrigian
Cantal
Canterbury
Canterbury bell
Canticle of Canticles
Canton
Canton River
Canton crepe
Canton flannel
Cantonese
Canuck
Canute
Cap-Haitien
Capablanca
Cape Cod
Cape Colony
Cape Dutch
Cape Horn
Cape Town
Cape buffalo
Capella
Capernaum
Capet
Capetian
Capitol
Capitoline
Caporetto
Cappadocia
Capri
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Caracalla
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Carbonari
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Carcassonne
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Card.
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Cardigan
Cardigan Bay
Cardiganshire
Carducci
Carew
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Caria
Carib
Caribbean
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Carina
Carinthia
Carlisle
Carlisle
Carlos
Carlota
Carlovingian
Carlow
Carlsbad
Carlton
Carlyle
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Carmel
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Carnap
Carnarvon
Carnatic
Carnegie
Carniola
Carnot
Carnot cycle
Caro's acid
Carol II
Carolina
Caroline
Caroline Islands
Carolingian
Carolinion
Carpathian Mountains
Carpatho-Ukraine
Carpentaria
Carpenter
Carrara
Carrel
Carroll
Carson
Carson City
Carstensz
Cartagena
Carte
Carter
Carteret
Cartesian
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Carthage
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Cartier
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Caruso
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Casablanca
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Casaubon
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Chaldean
Chaliapin
Cham
Chamaeleon
Chamberlain
Chambertin
Chamonix
Chamorro
Champagne
Champlain
Champollion
Chancellor of the Exchequer
Chancellorsville
Chandigarh
Chandler
Chandragupta
Chanel
Changchun
Changsha
Changteh
Channel Islands
Chantilly
Chantilly lace
Chanukah
Chao Phraya
Chaoan
Chaplin
Chapman
Charcot
Chardin
Charente
Charente-Maritime
Chari
Chari-Nile
Charing Cross
Charlemagne
Charleroi
Charles
Charles I
Charles II
Charles IV
Charles IX
Charles Martel
Charles V
Charles VI
Charles VII
Charles X
Charles the Great
Charles' law
Charles's Wain
Charleston
Charlotte
Charlotte Amalie
Charlottenburg
Charlottetown
Charlton
Charon
Charpentier
Charterhouse
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Charybdis
Chatham
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Chattanooga
Chatterton
Chaucer
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Cheddar
Chefoo
Cheiron
Cheju
Cheka
Chekhov
Chekiang
Chellean
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Cheltenham
Chelyabinsk
Chelyuskin
Chemnitz
Chemulpo
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Chengteh
Chengtu
Cheops
Cher
Cherbourg
Cheremis
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Cherenkov
Cherokee
Cherokee rose
Cherubini
Chesapeake Bay
Chesapeake Bay retriever
Cheshire
Cheshvan
Chester
Chester White
Chesterfield
Chesterfieldian
Chesterton
Chetnik
Chevalier
Cheviot
Cheviot Hills
Cheyenne
Chian
Chiang Kai-shek
Chianti
Chiapas
Chiba
Chibcha
Chibchan
Chicago
Chichihaerh
Chickamauga
Chickasaw
Chiclayo
Chief of Staff
Chifley
Chihli
Chihuahua
Chile
Chile saltpeter
Chilkoot Pass
Chillon
Chilon
Chilpancingo
Chiltern Hundreds
Chilung
Chimborazo
Chinkent
Chin.
China
China Sea
China aster
China rose
China silk
China tree
Chinaman
Chinatown
Chindwin
Chinese
Chinese Chippendale
Chinese Empire
Chinese Revolution
Chinese Turkestan
Chinese Wall
Chinese cabbage
Chinese calendar
Chinese checkers
Chinese ink
Chinese lantern
Chinese puzzle
Chinese red
Chinese wax
Chinese white
Chinese windlass
Chinese wood oil
Chinghai
Chink
Chinkiang
Chino-
Chinook
Chinook Jargon
Chinook salmon
Chinookan
Chios
Chippewa
Chirico
Chiron
Chishima
Chita
Chittagong
Chkalov
Chlodwig
Chloe
Chloromycetin
Choctaw
Choiseul
Cholon
Cholula
Chopin
Chosen
Chou
Chudskoye Ozero
Chukchi
Chukchi Sea
Chumash
Chungking
Chur
Church of Christ
Church of England
Church of Rome
Churchill
Chuvash
Ci
Cibber
Cicero
Ciceronian
Cid
Cienfuegos
Ciliata
Cilicia
Cilician Gates
Cimabue
Cimbri
Cimmerian
Cimon
Cincinnati
Cincinnatus
Cinderella
Cinemascope
Cinerama
Cinque Ports
Cipango
Circassia
Circassian
Circe
Circinus
Circus Maximus
Cirenaica
Cisalpine Gaul
Ciscaucasia
Cistercian
City of God
Ciudad Trujillo
Ciudad Victoria
Cl
Clackmannan
Clactonian
Clare
Clarenceux
Cobbett
Cobden
Cobham
Coblenz
Coburg
Cochabamba
Cochin
Cochise
Cockaigne
Cockayne
Cockcroft
Cocos Islands
Cocteau
Cocytus
Cod
Codex Juris Canonici
Cody
Coeur de Lion
Cognac
Cohen
Coimbatore
Coimbra
Cointreau
Coke
Col.
Colbert
Colchester
Colchis
Coldstream Guards
Coleridge
Colet
Colette
Coligny
Colima
College of Cardinals
Collins
Colmar
Colo.
Cologne
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Colombes
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Colombo
Colonel Blimp
Colorado
Colorado Desert
Colorado Springs
Colorado beetle
Colorado potato beetle
Colossae
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Colt
Colum
Columba
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Columbus
Columbus Day
Com.
Com. Ver.
Coma Berenices
Comanche
Comanchean
Comdr.
Comdt.
Comenius
Comines
Cominform
Comintern
Commerce
Commines
Commmodus
Common Era
Common Market
Commonwealth Day
Commonwealth of Nations
Communard
Communion
Communist China
Communist International
Communist Manifesto
Communist Party
Comnenus
Como
Comorin
Comoro Islands
Comptometer
Compton
Compton effect
Comr.
Comstock Lode
Comte
Comus
Cook Islands
Cook Strait
Cook's tour
Coolidge
Cooper
Cooper's hawk
Coorg
Copenhagen
Copenhagen blue
Copernicus
Copland
Copley
Copt
Coptic
Coptic Church
Cor.
Cora
Coral Sea
Corby
Corcovado
Corcyra
Cordeliers
Cordilleras
Cordova
Cordovan
Corelli
Corfam
Corfu
Corinth
Corinthian
Corinthians
Coriolanus
Cork
Corneille
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Cornish pasty
Cornwall
Cornwallis
Coromandel Coast
Corona Australis
Corona Borealis
Corot
Corpus Christi
Corpus Juris Canonici
Corpus Juris Civilis
Correggio
Corregidor
Corriedale
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Corsica
Cortes
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Corydon
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Cosenza
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Cossack
Costa Brava
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Cottian Alps
Coulomb
Coulomb's law
Council of Trent
Couperin
Courbet
Courbevoie
Courland
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Coutesteau
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Coventry
Coverdale
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Coward
Cowes
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Cowper
Cox
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Crab Nebula
Crabbe
Cracow
Craig
Craigie
Craiova
Cranach
Crane
Cranmer
Cranwell
Crashaw
Crassus
Crater
Credo
Cree
Creek
Cremona
Creole
Creon
Cressy
Cretaceous
Cretan
Crete
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Crichton
Crick
Crimea
Crimean War
Cripple Creek
Cripps
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Cro-Magnon
Cro-Magnon man
Croat
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Crockett
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Croesus
Croix de Guerre
Crompton
Cromwell
Cronus
Crookes
Crookes tube
Cuzco
Cwmbran
Cybele
Cyclades
Cyclopean
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Cydnus
Cygns
Cymric
Cymry
Cynewulf
Cynic
Cynicism
Cynthia
Cyprian
Cypriot
Cyprus
Cyrano de Bergerac
Cyrenaic
Cyrenaica
Cyrene
Cyril
Cyrillic
Cyrus
Cythera
Cytherea
Cyzicus
Czech
Czech.
Czechoslovak
Czechoslovakia
Czernowitz
Czerny
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D and C
D region
D'Annunzio
D'Entrecasteaux Islands
D'Oyly Carte
D-day
D.
D.A.
D.B.E.
D.C.
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D.D.
D.D.S.
D.Eng.
D.F.
D.F.C.
D.J.
D.O.
D.O.A.
D.O.M.
D.P.
D.P.H.
D.P.W.
D.S.
D.S.C.
D.S.M.
D.S.O.
D.Sc.
D.V.
D.V.M.
D/A
D/F
D/L
D/O
D/W
DC
DD
DDT
DEW line
DM
DMSO
DMZ
DNA
DOVAP
DX
Dacca
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E.E. & M.P.
E.I.
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E.V.
EAM
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Great Bear
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Great Dane
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Great Dog
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Stendhal  
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Stephen  
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Takamatsu
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Togo
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Toledo
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Tom
Tom Collins
Tom Thumb
Tom and Jerry
Tombouctou
Tommy
Tommy gun
Tomsk
Tonga
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Tonle Sap
Toowoomba
Topeka
Tophet
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Torquay
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Treasury
Trebizond
Treblinka
Tree
Trengganu
Trentino-Alto Adige
Trento
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Trevelyan
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Trimurti
Trincomalee
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Tungus
Tungusic
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Tunisia
Tupi
Tupi-Guarani
Tupungato
Turanian
Turco
Turenne
Turgot
Turin
Turk
Turk's-cap lily
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Turk.
Turkestan
Turkey
Turkey red
Turki
Turkic
Turkish
Turkish Empire
Turkish bath
Turkish coffee
Turkish delight
Turkish rug
Turkish tobacco
Turkish towel
Turkmen
Turkoman
Turku
Turner
Turpin
Tuscan
Tuscany
Tuscarora
Tutankhamen
Tutuila
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Twain
Tweed
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Unterwalden
Upnishad
Upolu
Upper Austria
Upper Egypt
Upper Silesia
Upper Tunguska
Upper Volta
Uppsala
Ur
Ural-Altaic
Uralian
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Urban II
Urdar
Urdu
Urey
Urfa
Urga
Uriah
Uriel
Urim and Thummim
Urmia
Urquhart
Ursa Major
Ursa Minor
Ursula
Ursuline
Uru.
Uruguay
Urumchi
Ushant
Ushas
Usk
Uspallata Pass
Ust-Kamenogorsk
Utah
Utgard-Loki
Uther
Utica
Uto-Aztecan
Utopia
Utrecht
Utrillo
Uttar Pradesh
Valletta
Valley Forge
Vallombrosa
Valois
Valona
Valparaíso
Van
Van Allen belt
Van Buren
Van Diemen's Land
Van Dyck
Van Gogh
Vance
Vancouver
Vandal
Vanderbilt
Vandyke
Vandyke beard
Vandyke brown
Vandyke collar
Vane
Vanir
Vanity Fair
Vanua Levu
Var
Varanasi
Vardar
Vardhamana
Varese
Vargas
Varityper
Varro
Varuna
Vasco da Gama
Vaseline
Vashti
Vat.
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Vatican City
Vauban
Vaucluse
Vaud
Vaudois
Vaughan
Vaughan Williams
Veda
Vedanta
Vedda
Vespucci
Vesta
Vesuvius
Veterans Administration
Veterans Day
Viborg
Vic.
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Vichy
Vicksburg
Vicky
Vico
Victor Emmanuel III
Victoria
Victoria Cross
Victoria Island
Victoria Land
Victorian
Vidar
Vienna
Vienna sausage
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Vignola
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Viking
Villa
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Vincent's angina
Vindhya Pradesh
Vineland
Vinnitsa
Virchow
Virgil
Virgin Mary
Virginia
Virginia Beach
Virginia creeper
Virginia deer
Waler
Wales
Walfish Bay
Walhalla
Walkyrie
Wall Street
Wallace
Wallachia
Wallasey
Wallenstein
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Walvis Bay
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Ward
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Warta
Wartburg
Warwick
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Wash
Wash.
Washington
Washington palm
Waterford
Waterloo
Watling Island
Watson
Watt
Watteau
Watts
Watusi
Waugh
Waves
Wayland
Wayne
Waziristan
Wb
Weald
Webb
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Weddell Sea
Wedekind
Wedgwood
Wedgwood blue
Wednesday
Wehrmacht
Weichsel
Weimar Republic
Weimaraner
Weismannism
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Weizmann
Welch
Welles
Wellesley
Wellesz
Wellington boots
Wells
Welsh
Welsh corgi
Welsh dresser
Welsh rabbit
Welsh rarebit
Welsh springer spaniel
Welsh terrier
Weltanschauung
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Wend
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Wesley
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Whitsun
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Whyalla
Wichita
Wick
Wickliffe
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Wieland
Wien
Wiesbaden
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Wight
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Wild Hunt
Wild West
Wild West show
 Wilde
Wilderness
Wilhelm I
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Wilhelmstrasse
Wilkes
Wilkes Land
Wilkins
Willemstad
William I
William II
William the Conqueror
Williams
Williamsburg
Williamson
Wilmington
Wilson cloud chamber
Wilson’s snipe
Wilton
Wiltshire
Wimshurst machine
Winchester
Wind River Range
Windermere
Windhoek
Windsor
Windsor chair
Windsor knot
Windsor tie
Windward Islands
Windward Passage
Winnebago
Winnipegosis
Wirephoto
Wis.
Wisconsin
Wisd.
Wisla
Wismar
Wittenberg
Wittgenstein
Witwatersrand
Wobbly
Woden
Wolf
Wolfe
Wolff
Wolfram von Eschenbach
Wollongong
Wolof
Wolsey
Wolverhampton
Wood
Woodbridge
Woods
Woolf
Woolley
Woolworth
Worcester
Worcestershire
Wordsworth
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World Court
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Worms
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Wright
Wuhan
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Yama
Yamashita
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Yanina
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Yawata
Yb
Yeisk
Yellow River
Yellowknife
Yellowstone
Yellowstone Falls
Yellowstone National Park
Yemen
Yenisei
Yentai
Yerevan
Yezd
Ygerne
Yggdrasil
Yiddish
Yin and Yang
Yingkow
Ymir
Yoga
Yokohama
Yom Kippur
Yonkers
Yonne
Yorkist
Yorkshire
Yorkshire pudding
Yorkshire terrier
Yorktown
Yoruba
Yosemite Falls
Young
Young Pretender
Young Turk
Young's modulus
Youngstown
Ypres
Ypsilanti
Yser
Yseult
Yt
Yugo.
Yugoslav
Yugoslavia
Yukaghir
Yukon
Yukon time
Yurev
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Zabrze
Zacatecas
Zacynthus
Zagazig
Zagreb
Zagreus
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Zama
Zambia
Zamboanga
Zamora
Zante
Zapata
Zaporozhye
Zarathustra
Zebedee
Zebulun
Zech.
Zechariah
Zeebrugge
Zeeland
Zeeman effect
Zeist
Zeitgeist
Zen
Zend-Avesta
Zeno of Citium
Zeno of Elea
Zenobia
Zeph.
Zephaniah
Zephyrus
Zeppelin
Zermatt
Zetland
Zeus
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Zhdanov
Zhukov
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Zilpah
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Zuider Zee
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Zuyder Zee
Zweig
Zwickau
Zwinglian
Zwolle
Zworykin
Zyrian
a
a cappella
a capriccio
a fortiori
a la carte
a la mode
a posteriori
a priori
a tempo
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a.c.
a.f.
a.m.
a.p.
a.r.
a.w.
aa
aalii
aardvark
aardwolf
ab initio
ab origine
ab ovo
ab urbe condita
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aba
abaca
abacist
aback
abacus
abaft
abalome
abamp
abampere
abandon
abandoned
abase
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abbacy
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abbey
abbot
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abbreviation
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abducent
abduct
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abductor
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abeccedarium
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abele
abelmosk
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aberration
abessive
abet
abettor
abeyance
abeyant
abfarad
abhenry
abhor
abhorrence
abhorrent
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abigail
ability
abiogenesis
abiogenetic
abiosis
abiotic
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abirritate
abject
abjuration
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abl.
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ablative
ablative absolute
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accusal  
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acetic acid  
acetic anhydride  
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acetometer  
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acetylcholine  
acetylene  
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acetylsaliclyc acid  
acey-deucy  
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achlamydeous
achlorhydria
achondrite
achondroplasia
achromat
achromatic
achromatic lens
achromaticity
achromatin
achromatism
achromatize
achromatous
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acicula
acicular
aciculate
aciculum
acid
acid drop
acid dye
acid rock
acid soil
acid test
acid-fast
acid-forming
acid-head
acidic
acidify
acidimeter
acidimetry
acidity
acidophil
acidophilus milk
acidosis
acidulant
acidulate
acidulent
acidulous
acerate
acinaciform
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acinus
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acrobatic
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acrocarpous
acrodont
acrodrome
acrogen
acrolein
acrolith
acromegaly
acromion
acronym
acropetal
acrophobia
acropolis
acrosire
across
across-the-board
acrostic
acroter
acroterion
acrylic
acrylic acid
acrylic resin
acrylonitrile
acyrlyl
act
act curtain
act of God
act of faith
act of war
act on
act out
act up
actable
actg.
actin
actinal
acting
acting area
actinia
actinic
actinic ray
actinide series
actiniform
actinism
actinium
actinium series
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actinochemistry
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actinolite
actinology
actinometer
actinomorphic
actinomycete
actinomycin
actinomycosis
actinon
actinopod
actinotherapy
actinouranium
actinozoan
action
action painting
actionable
activate
activated sludge
activator
active
active duty
active immunity
active list
active service
activism
activist
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actor
actress
actual
actuality
actualize
actually
actuary
actuate
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acuity
aculeate
aculeus
acumen
acuminate
acupuncture
acutance
acute
acute accent
acute alcoholism
acyclic
acyl
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ad hoc
ad hominem
ad infinitum
ad interim
ad lib
ad libitum
ad litem
ad nauseam
ad rem
ad val.
ad valorem
ad-
ad-lib
adactylous
adage
adagietto
adagio
adamant
adamantine
adamsite
adapt
adaptable
adaptation
adapter
adaptive
adaxial
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add up
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addax
addend
addendum
adder
adder's-mouth
adder's-tongue
addict
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addiction
addictive
adding machine
additament
addition
additional
additive
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ae.
aeciospore
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aedes
aedile
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aeolipile
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erator
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aerial bomb
aerial ladder
aerial mine
aerial perspective
aerial photograph
aerial torpedo
aerialist
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aerification
aeriform
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aero
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aeroballistics
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aerobe
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aerobiology
aerobiosis
aerodonetics
aerodontia
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aerodyne
aeroembolism
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aerography
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aeronautical engineering
aeronautics
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aerophobia
aerophone
aerophyte
aeroplane
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aerosol
aerospace
aerosphere
aerostat
aerostatic
aerostatics
aerostation
aerotherapeutics
aerothermodynamics
aerugo
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aesthete
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aestheticism
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affusion
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afghani
aficionado
afield
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 aflame
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aflutter
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aforesaid
aforethought
aforetime
afoul
afraid
a freight
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after-dinner
afterbirth
afterbody
afterbrain
afterburner
afterburning
aftercare
afterclap
afterdamp
afterdeck
aftereffect
afterglow
aftergrowth
afterguard
afterheat
afterimage
afterlife
aftermath
aftermost
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afternoon tea
afternoons
afterpiece
aftersensation
aftershaft
aftershook
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agglutinin
agglutinogen
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aggressor
aggrieve
aggrieved
agha
aghast
agile
agility
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agiotage
agist
agitator
agitato
agitator
agitprop
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aglet
agley
aglimmer
aglitter
aglow
agma
agminate
agnail
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agnomen
agnosia
agnostic
agnosticism
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agog
agon
agone
agonic
agonic line
agonist
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agonize
agonized
agonizing
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agony column
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agouti
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agraffe
agranulocytosis
agrapha
agraphia
agrarian
agree
agreeable
agreed
agreement
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agribusiness
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agriculture
agriculturist
agrimony
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agrobiology
agrology
agron.
agronomics
agronomy
agrostology
aground
ague
agueweed
aguish
ah
aha
ahead
ahem
ahimsa
ahoy
ai
aid
aide
aide-de-camp
aiglet
aigrette
aiguille
aiguillette
aikido
ail
ailanthus
aileron
aileron roll
ailing
ailment
ailurophile
ailurophobe
aim
aimless
ain
ain't
air
air alert
air bag
air base
air bed
air bladder
air brake
air cargo
air coach
air conditioner
air conditioning
air cover
air curtain
air cushion
air cylinder
air drill
air fleet
air force
air gas
air gun
air hammer
air hole
air jacket
air lane
air letter
air line
air log
air mass
air mile
air plant
air pocket
air power
air pump
air raid
air rifle
air route
air sac
air scoop
air service
air shaft
air sleeve
air sock
air space
air spring
air station
air turbine
air valve
air vesicle
air-condition
air-cool
air-dry
air-minded
air-raid shelter
air-raid warden
air-sea rescue
air-to-air
air-traffic control
airboat
airborne
airbrush
airburst
aircraft
aircraft carrier
aircraftman
aircrew
aircrewmman
airdrome
airdrop
airfield
airflow
airfoil
airframe
airglow
airhead
airily
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buckeye
buckhound
buckish
buckjump
buckjumper
buckle
buckle down
buckler
buckling
bucko
buckra
buckram
bucksaw
buckshee
buckshot
buckskin
buckskins
buckthorn
bucktooth
buckwheat
buckwheat cake
bucolic
bud
bud scale
buddhi
buddle
buddleia
buddy
budge
budgerigar
budget
budgie
bulbul
bulge
bulimia
bulk
bulk modulus
bulkhead
bulky
bull
bull fiddle
bull mastiff
bull nose
bull session
bull snake
bull terrier
bull tongue
bull's-eye
bull-necked
bull-roarer
bull.
bulla
bullace
bullate
bullbat
bulldog
bulldoze
bulldozer
bullet
bulletin
bulletin board
bulletproof
bullfight
bullfighter
bullfinch
bullfrog
bullhead
bullheaded
bullhorn
bullion
bullish
bullnose
bullock
bullpen
bullring
bullshit
bullwhip
bully
bully beef
bullyboy
bunting
buntline
bunya-bunya
bunyip
buoy
buoyage
buoyancy
buoyant
buprestid
bur
bur marigold
bur oak
bur reed
buran
burble
burbot
burden
burden of proof
burdened
burdensome
burdock
bureau
bureaucracy
bureaucrat
bureaucratic
bureaucratize
burette
burg
burgage
burgee
burgeon
burger
burgess
burgh
burgher
burglar
burglar alarm
burglarious
burglarize
burglary
burgle
burgomaster
burgonet
burgoo
burgrave
burial
burial ground
burial mound
busman's holiday
buss
bust
bust-up
bustard
bustee
buster
bustle
busty
busy
busybody
busyness
busywork
but
butacaine
butadiene
butane
butanol
butanone
butch
butcher
butcher knife
butcher paper
butcher shop
butcher's saw
butcher's-broom
butcherbird
butchery
butene
butler
butlery
butt
butt hinge
butt joint
butt plate
butt shaft
butt weld
butte
butter
butter bean
butter muslin
butter up
butter-and-eggs
butterball
butterbur
buttercup
butterfat
butterfingers
butterfish
butterflies
butterfly
butterfly bush
butterfly valve
butterfly weed
buttermilk
butternut
butternut squash
butterscotch
butterwort
buttery
buttock
buttocks
button
button quail
button tree
button up
buttonball
buttonhole
buttonhole stitch
buttonhook
buttons
buttonwood
buttress
butyl
butyl alcohol
butylene
butyraseous
butyraldehyde
butyrate
butyric acid
butyrin
buxom
buy
buy in
buy into
buy off
buy out
buy up
buyer
buyers' market
buying power
buzz
buzz bomb
buzz off
buzz saw
buzzard
buzzer
bwana
bx.
by
by and by
by and large
by-
by-and-by
by-bidder
by-blow
by-election
by-line
by-play
by-product
by-your-leave
bye
bye-bye
byelaw
bygone
bylaw
bypass
bypath
byre
byrne
byroad
byssinosis
byssus
bystander
bystreet
byte
byway
byword
c
c'est la vie
c.
c.d.
c.g.
c.h.
c.m.
c.p.
c.w.o.
c/l
c/o
ca'canny
c.a.
cab
cabal
cabala
cabalism
cabalist
cabalistic
caballero
cabana
cabaret
cabasset
cabbage
cabbage palm
cabbage palmetto
cabbagehead
cabbageworm
cabbala
cabby
cabdriver
caber
cabezon
cabin
cabin boy
cabin class
cabin cruiser
cabinet
cabinet pudding
cabinetmaker
cabinetwork
cable
cable car
cable railway
cable release
cable ship
cable stitch
cablegram
cablet
cableway
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cabob
cabochoon
caboodle
caboose
cabotage
cabretta
cabrilla
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cacao butter
cacciatore
caducity
caducous
caecilian
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caesium
caespitose
caeura
cafard
cafeteria
caffeine
caftan
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cageling
cagey
cahier
cahoot
caiman
cain
caird
cairn
cairngorm
caisson
caisson disease
caitiff
cajeput
cajole
cajolery
cajuput
cake
cakes and ale
cakewalk
cal.
calabash
calaboose
caladium
calamanco
calamander
calamine
calamint
calamite
calamitous
calamity
calamondin
calamus
calash
calathus
calaverite
calc-
calc-tufa
calcaneus
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calcareous
calcariferous
calceiform
calceolaria
calces
calci-
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calicole
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calciferol
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calciific
calcification
calcifuge
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calcinime
calcine
calcite
calcium
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calcium carbide
calcium carbonate
calcium chloride
calcium cyanamide
calcium cyclamate
calcium hydroxide
calcium light
calcium oxide
calcium phosphate
calculable
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calculated risk
calculating
calculating machine
calculation
calculator
calculous
calculus
calculus of variations
caldarium
cauldron
calefacient
calefaction
calefactory
calendar
calendar clock
calendar day
calendar month
calendar watch
calendar year
calender
calends
calendula
calenture
calf
calf love
calf's-foot jelly
calfskin
caliber
calibrate
calibre
calices
caliche
calicre
calico
calico bush
calico cat
calif
califate
californium
caliginous
calipash
caliepe
caliper
caliph
caliphate
calisaya
calisthenics
calix
calk
call
call box
call down
call forth
call girl
call in
call letters
call loan
call money
calves
calvities
calx
calyces
calyicine
calycle
calycle
calypso
calytra
calyptrogen
calyx
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camail
camaraderie
camarilla
camass
camber
cambist
cambium
cambogia
camboose
cambrel
cambric
came
camel
camel's hair
camelback
cameleer
camellia
camelopard
cameo
cameo glass
cameo ware
camera
camera lucida
camera obscura
camera tube
cameral
cameraman
camerlengo
camino real
camion
camisado
camise
camisole
camlet
camomile
camouflage
camp
camp bed
camp chair
camp follower
camp meeting
camp stove
campaign
campaign fund
campaign hat
campanile
campanology
campanula
campanulaceous
campanulate
camper
campestral
campfire
campground
camphene
camphor
camphor ball
camphor ice
camphor tree
camphorate
camphorated oil
campion
campo
campo santo
camporee
campstool
campus
campery
camshaft
can
can buoy
can opener
can't
can.
canaigre
canaillé
canakin
canal
canal boat
canal ray
canaliculus
canalize
canard
canary
canary grass
canine
caning
canister
canker
canker sore
cankerred
cankerous
cankerworm
canna
cannabin
cannabis
canned
cannel coal
canneloni
canner
cannery
cannibal
cannibalism
cannibalize
cannikin
canning
cannon
cannon bone
cannon cracker
cannon fodder
cannon shot
cannonade
cannonball
cannoneer
cannonry
cannot
cannula
cannular
canny
canoe
canoewood
canon
canon law
canoness
canonical
canonical hour
canonicals
canonicate
canonicity
canonist
canonize
canonry
canoodle
capitulation
capitulum
caplin
capo
capon
caponize
caporal
capote
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capper
capping
cappuccino
capreolate
capriccio
capriccioso
caprice
capricious
caprification
caprifig
caprifoliaceous
caprine
capriole
caproic acid
caps.
capsaicin
capsicum
capsize
capstan
capstan bar
capstan lathe
capstone
capsular
capsulate
capsule
capsulize
captain
captain of industry
captain's chair
captainship
caption
captious
captivate
captive
captive balloon
captivity
captor
capture
capuche
carbon process
carbon steel
carbon tetrachloride
carbon tissue
carbon-14 dating
carbonaceous
carbonado
carbonate
carbonation
carbonic
carbonic acid
carbonic-acid gas
carboniferous
carbonization
carbonize
carbonous
carbonyl
carbonyl chloride
carboxyl group
carboxylase
carboxylate
carboxylic acid
carboy
carbuncle
carburet
carburetor
carburize
carbylamine
carcajou
carcanet
carcass
carcinogen
carcinoma
carcinomatosis
card
card catalog
card index
card punch
card table
card vote
card-carrying
cardamom
cardboard
cardholder
cardiac
cardialgia
cardigan
cardinal
carpet tack
carpetbag
carpetbagger
carpeting
carpi
carping
carpo-
carpogonium
carpology
carpometacarpus
carpophagous
carpophore
carport
carpospore
carpus
carrack
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carrefour
carrel
carriage
carriage dog
carriage horse
carriage house
carriage trade
carrick bend
carrick bitt
carrier
carrier pigeon
carriole
carrion
carrion crow
carrion flower
carron oil
carronade
carrot
carroty
carrousel
carry
carry away
carry back
carry off
carry on
carry out
carry over
carry through
carryall
carrying charge
carrying-on
carse
carsick
cart
cart horse
cartage
carte
carte blanche
carte de visite
carte du jour
cartel
cartelize
cartilage
cartilage bone
cartilaginous
cartload
cartogram
cartography
cartomancy
carton
cartoon
cartouche
cartridge
cartridge belt
cartridge brass
cartridge clip
cartridge paper
cartridge pen
cartulary
cartwheel
caruncle
carve
carve up
carvel
carvel-built
carven
carving
carving knife
caryatid
caryo-
caryophyllaceous
caryopsis
casa
casaba
cascabel
cascade
cascara
cascara sagrada
cascarilla
cassis
cassiterite
cassock
cassoulet
cassowary
cast
cast about
cast down
cast iron
cast steel
cast-iron
cast-off
castanets
castaway
caste
caste mark
castellan
castellany
castellated
castellatus
caster
castigate
casting
casting vote
castle
castle in the air
castled
castoff
castor
castor bean
castor oil
castor-oil plant
castrate
castration complex
castrato
casual
casualty
casualty insurance
casuist
casuistry
casus belli
cat
cat brier
cat burglar
cat nap
cat rig
cat whisker
cat's cradle
cat’s-ear
cat’s-eye
cat’s-foot
cat’s-paw
cat’s-tail
cat-and-dog
cat-eyed
cat-o’-mountain
cat-o’-nine-tails
cat.
cata-
catabasis
catabolism
catabolite
catacaustic
catchresis
cataclinal
cataclysm
cataclysmic
catacomb
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catafalque
catalase
catalectic
catalepsy
catalo
catalog
catalogue
catalpa
catalysis
catalyst
catalyze
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catamenia
catamite
catamnesis
catamount
cataphoresis
cataphyll
cataplasia
cataplastm
cataplexy
catapult
cataract
catarrh
catarrhine
catastrophe
catastrophism
catatonia
catbird
catboat
catcall
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catch basin
catch crop
catch on
catch out
catch phrase
catch up
catch-as-catch-can
catchall
catcher
catchfly
catching
catchment
catchpenny
catchpole
catchup
catchweight
catchword
catchy
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catechin
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catechol
catechu
catechumen
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categorize
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catenane
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catenate
catenoid
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cater-cousin
cateran
catercorner
caterer
catering
caterpillar
caterpillar hunter
caterwaul
catfall
catfish
catgut
cath-
catharsis
cathartic
cathead
cathedral
cathepsin
catheter
catheterize
cathexis
cathode
cathode glow
cathode ray
cathode-ray tube
cathodic protection
cathodoluminescence
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catholicity
catholicize
catholicon
cathouse
cation
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catling
catmint
catnap
catnip
catoptrics
catsup
cattail
cattalo
cattery
cattish
cattle
cattle egret
cattle plague
cattleman
cattleya
catty
catty-cornered
catwalk
caucus
cave in
cave-in
caveat
caveat emptor
caveator
cavefish
caveman
cavendish
cavern
cavernous
cavesson
cavetto
caviar
cavicorn
cavie
cavil
cavitation
cavity
cavity resonator
cavo-relievo
cavo-rilievo
cavort
cavy
caw
cay
cayenne
cayenne pepper
cayman
cayuse
c.c.
cd
cd.
cease
cease-fire
ceaseless
cecity
cecum
cedar
cedar of Lebanon
cedar waxwing
cede
cedilla
ceiba
ceil
ceilidh
ceiling
ceiling light
ceilometer
cellulosic
cellulous
celom
celt
celtuce
cembalo
cement
cementation
cementite
cementum
cemetery
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cenacle
cenesthesia
cenobite
cenogenesis
cenotaph
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censer
censor
censorious
censorship
censurable
censure
census
cent
cent.
cental
centare
centaur
centaury
centavo
centenarian
centenary
centennial
center
center of buoyancy
center of curvature
center of effort
center of flotation
center of gravity
center of mass
center of percussion
center of pressure
center of symmetry
center punch
centerboard
centering
centrepiece
centesimal
centesimo
centi-
centiare
centigrade
centigram
centiliter
centillion
centime
centimeter
centipede
centipoise
centistere
centner
cento
centra
central
central angle
central bank
central heating
central nervous system
central sulcus
centralism
centrality
centralization
centralize
centre
centreboard
centrepiece
centric
centric 
centrifugal
centrifugal force
centrifugate
centrifuge
centring
centriole
centripetal
centripetal force
centrist
centro-
centrobaric
centroclinal
centroid
centromere
centrosome
centrosphere
centrosymmetric
centrum
centum
centuple
centuplicate
centural
centurion
century
century plant
ceorl
cephalad
cephalalgia
cephalic
cephalic index
cephalization
cephalo-
cephalochordate
cephalometer
cephalopod
cephalothorax
ceraceous
ceramal
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ceramics
ceramist
cerargyrite
cerate
cerated
ceratodus
ceroid
cercaria
cercus
cere
cereal
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cerebrate
cerebration
cerebritis
cerebro-
cerebrosome
cerebrospinal
cerebrospinal fluid
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cerebrovascular
cerebrum
cerecloth
cerement
ceremonial
ceremonious
ceremony
ceresin
cereus
ceria
ceric
cerise
cerium
cermet
cernuous
cero
cerography
ceroplastic
ceroplastics
cerotic acid
cerotype
cerous
cert.
certain
certainly
certainty
certes
certifiable
certificate
certificate of deposit
certificate of incorporation
certificate of origin
certificate of stock
certification
certified
certified check
certified mail
certified milk
certified public accountant
certify
certiorari
certitude
cerulean
cerumen
ceruse
cerussite
cervelat
cervical
cervicitis
cervine
cervix
cesium
cespitose
cess
cessation
cession
cessionary
cesspool
cesta
cestode
cestoid
cestus
cesura
cetacean
cetane
cetane number
ceteris paribus
cetology
cf.
cg.
ch.
cha-cha
chabazite
chacma
chaconne
chad
chaeta
chaetognath
chaetopod
chafe
chafer
chaff
chaffer
chaffinch
chafing dish
chagrin
chain
chain gang
chain letter
chain lightning
chain locker
chain mail
chain reaction
chain reactor
chain rule
chain saw
chain shot
chain stitch
chain store
chanter
chanterelle
chanteuse
chantey
chanticleer
chantress
chantry
chanty
chaos
chaotic
chap
chap.
chaparajos
chaparral
chaparral pea
chapatti
chapbook
chape
chapeau
chapeau bras
chapel
chapel of ease
chaperon
chaperone
chapfallen
chapiter
chaplain
chaplet
chapman
chappie
chaps
chapter
chaqueta
char
charabanc
character
character actor
character sketch
character witness
characteristic
characteristically
characterization
characterize
characteretry
charade
charades
charcoal
charcuterie
check out
check valve
checkbook
checked
checker
checkerberry
checkerbloom
checkerboard
checkered
checkers
checkerwork
checking account
checklist
checkmate
checkoff
checkpoint
checkrein
checkroom
checkrow
checks and balances
checkup
checky
cheddite
cheder
cheek
cheek pouch
cheekbone
cheekpiece
cheeky
cheep
cheer
cheerful
cheerio
cheerleader
cheerless
cheerly
cheery
cheese
cheeseburger
cheesecake
cheesecloth
cheeseparing
cheesewood
cheesy
cheeta
chef
chef de cuisine
cheiro-
chela
chelate
chelicera
cheliform
cheloid
chelonian
chem-
chem.
chemical
chemical engineering
chemical potential
chemical warfare
chemiluminescence
chemin de fer
chemise
chemisette
chemism
chemisorb
chemisorption
chemist
chemistry
chemmy
chemo-
chemoprophylaxis
chemoreceptor
chemosmosis
chemosphere
chemosynthesis
chemotaxis
chemotherapy
chemotropism
chemurgy
chenille
chenopod
cheongsam
cheque
chequer
chequerboard
chequered
cherimoya
cherish
cheroot
cherry
cherry bomb
cherry laurel
cherry picker
chersonese
chert
childish
childlike
children
chile
chili
chili con carne
chili pepper
chili sauce
chiliad
chiliarch
chiliasm
chill
chiller
chilli
chilly
chilopod
chimaera
chimb
chime
chime in
chimera
chimere
chimerical
chimney
chimney corner
chimney swallow
chimney sweep
chimney swift
chimp
chimpanzee
chin
chin-chin
china
china bark
china clay
chinaberry
chinaware
chincapin
chinch
chinch bug
chinchilla
chinchy
chine
chinfest
chink
chinkapin
chino
chinoiserie
chinook
chinquapin
chintz
chintzy
chip
chip in
chip log
chip shot
chipboard
chipmunk
chipped beef
chipper
chipping sparrow
chippy
chirk
chirn
chiro-
chirography
chiromancy
chiroprodist
chiroprody
chiropractic
chiropractor
chiropteran
chirp
chirpy
chirr
chirrup
chirrupy
chirurgeon
chisel
chiseler
chit
chitarrone
chitchat
chitin
chiton
chitter
chitterlings
chivalric
chivalrous
chivalry
chivaree
chive
chivy
chlamydate
chlamydeous
chlamydospore
chlamys
chlor-
chloral
chloral hydrate
chloramine
chloramphenicol
chlorate
chlor dane
chlorella
chlorenchyma
chloric
chloric acid
chloride
chloride of lime
chlorinate
chlorine
chlorine dioxide
chlorite
chloro-
chloroacetic acid
chlorobenzene
chloroform
chlorohydrin
chlorophyll
chloropicrin
chloroplast
chloroprene
chlorosis
chlorothiazide
chlorous
chlorous acid
chlorpromazine
clortetracycline
chm.
choanocyte
chock
chock-a-block
chock-full
chocolate
choice
choir
choir loft
choir school
choirboy
choirmaster
choke
choke coil
choke up
chromatic aberration
cromatic scale
chromaticity
chromaticity diagram
chromaticness
chromatics
chromatid
chromatin
chromatism
chromato-
chromatogram
chromatograph
chromatography
chromatology
chromatolysis
chromatophore
chrome
chrome alum
chrome green
chrome red
chrome steel
chrome yellow
chronic
chronic acid
chroninance
chromite
chromium
chromium steel
chromo
chromo-
chromogen
chromogenic
chromolithograph
chromolithography
chromomere
chromonema
chromophore
chromoplast
chromoprotein
chromosome
chromosome number
chromosphere
chromous
chromyl
chron.
chronaxie
chronic
chronic alcoholism
chronicle
chronicle play
chrono-
chronogram
chronograph
chronological
chronologist
chronology
chronometer
chronometry
chronon
chronopher
chronoscope
chrysalid
chrysalis
chrysanthemum
chrysarobin
chryselephantine
chryso-
chrysoberyl
chrysolite
chrysoprase
chrysotile
chs.
chthonian
chub
chubby
chuck
chuck out
chuck wagon
chuck-full
chuck-will's-widow
chuckhole
chuckle
chucklehead
chuckwalla
chuddar
chufa
chuff
chuffy
chug
chukar
chukka boot
chukker
chum
chummy
chump
chunk
chunky
chuppah
church
church book
church calendar
church invisible
church militant
church mode
church text
church visible
churchgoer
churchless
churchlike
churchly
churchman
churchwarden
churchwoman
churchy
churchyard
churinga
churl
churlish
churn
churning
churr
churrigueresque
chute
chutney
chutzpah
chyack
chyle
chyme
chymotrypsin
ci-devant
ciao
ciborium
cicada
cicala
 cicatrix
 cicatrize
 cicely
 cicero
 cicerone
 cichlid
 cicisbeo
 cider
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circuit breaker
circuit judge
circuit rider
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city father
city hall
city man
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city slicker
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civil day
civil death
civil disobedience
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civil law
civil liberty
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civil marriage
civil rights
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clean hands
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clean-shaven
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clear out
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cockchafer
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cold comfort
cold cream
cold cuts
cold duck
cold feet
cold frame
cold front
cold light
cold pack
cold rubber
cold shoulder
cold snap
cold sore
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cold sweat
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colorcast
colored
colorfast
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combination tone
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comma bacillus
comma fault
comma splice
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command car
command guidance
command module
command paper
command performance
command post
commandant
commandeer
commander
commander in chief
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commanding officer
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commando
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commercial bank
commercial college
commercial credit
commercial fertilizer
commercial law
commercial paper
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comparative method
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complementary distribution
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complex number
complex sentence
complex variable
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compossible
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corpus delicti
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corpus luteum
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counterproof
counterproposal
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counterreply
counterrevolution
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cover girl
cover point
cover story
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cowboy
cowcatcher
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crack of dawn
crack of doom
crack the whip
crack up
crack-up
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cracker-barrel
crackerjack
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crackpot
cracksman
cradle
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craft union
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craftwork
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crapulent
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crepitate
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crescentic
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direct current
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direct evidence
direct lighting
direct mail
direct object
direct primary
direct tax
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direction finder
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disability clause
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disforest
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disgrace
disgraceful
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disguise
disgust
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disk harrow
disk-seal tube
dislike
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dislocate
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disloyal
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dismantle
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dismay
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dismiss
dismissal
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disorder
disordered
disorderly
disorderly conduct
disorderly house
disorganization
disorganize
disorient
disorientate
disown
disparage
disparagement
disparate
disparity
dispart
dispassion
dispassionate

dispatch

dispatch boat

dispatch box

dispatch case

dispatcher

dispel
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distiller
distillery
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distinctive
distinctive feature
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distressful
distributary
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distribution function
distributive
distributor
district
district attorney
district court
distrust
distrustful
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disturbance
disturbed
disturbing
disulfide
disulfiram
disunion
disunite
disunity
disuse
divertimento
diverting
divertissement
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divestiture
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divided highway
dividend
divider
dividers
divination
divine
divine healing
divine office
divine service
diviner
diving beetle
diving bell
diving board
diving boat
diving suit
divinging rod
divinity
divinity school
divinize
divisibility
divisible
division
division algebra
division sign
divisionism
divisive
divisor
divorce
divorce court
divorcee
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do away with
do by
do for
do in
do over
do up
do with
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do-all
do-gooder
do-goodism
do-it-yourself
do-nothing
do-nothingism
do-or-die
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doable
dobben
doddy
dobla
dobsonfly
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doch-an-dorrach
docile
dock
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dockhand
dockyard
doctor
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doctinaire
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doctinal theology
document
documentary
doggish
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doghouse
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dogleg fence
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dogmatism
dogmatist
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dogtooth
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dogwatch
dogwood
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double cross
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double entry
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double standard
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down-bow
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downcomer
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drag link
drag race
drag sail
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draghound
dragline
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dragoman
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dragon tree
dragon's blood
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dragonfly
dragonhead
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dragonroot
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draw poker
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dream up
dream vision
dreamer
dreamland
dreamworld
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dress circle
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drinking water
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drip-dry
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dripping pan
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droit du seigneur
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drollery
dromedary
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drop curtain
drop forge
drop hammer
drop kick
drop leaf
drop letter
drop off
drop scene
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drop shot
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dry cleaner
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dry distillation
dry dock
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dry fly
dry goods
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dry law
dry martini
dry measure
dry mop
dry nurse
dry offset
dry plate
dry rot
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dry-clean
dry-nurse
dry-salt
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dual personality
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durmast
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dusk
dusky
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dust bowl
dust cover
dust devil
dust jacket
dust mop
dust shot
dust storm
dustcloth
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dustheap
dustman
dustpan
dustproof
dustup
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dusty miller
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duty-bound
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dwarf chestnut
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dwelling house
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dynamic psychology
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eagle ray
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eaglewood
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ealdorman
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ear lobe
ear shell
ear trumpet
ear-piercing
earthworm
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easeful
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east by north
east by south
east-northeast
east-southeast
eastbound
easterly
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easternmost
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eastward
eastwardly
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easy
easy chair
easygoing
eat
eat out
eat up
eatable
eatables
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eating
eating house
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eau de Cologne
eau de Javelle
eau de vie
eaves
eavesdrop
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ebb tide
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ebullition
eburnation
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eccentricity
ecchymosis
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ecclesiastic
ecclesiastical
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ecclesiastical law
ecclesiastical mode
ecclesiasticism
ecclesiolartry
ecclesiology
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echelon
echidna
echinate
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echinoid
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echo
echo chamber
echo sounder
echoic
echoism
echolalia
echolocation
echopraxia
echovirus
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eclampsia
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eclipse plumage
ecliptic
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eclogue
ecllosion
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economic cycle
economic determinism
economic geography
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ectoenzyme
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ectoparasite
ectophyte
ectopia
ectopic pregnancy
ectoplasm
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ectropion
ectype
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cumenicity
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elapse
elasmobranch
elastance
elastic
elastic limit
elastic modulus
elasticity
electric shock
electric storm
electric thermometer
electric torch
electric wave
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electrical transcription
electrician
electricity
electrify
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electroacoustics
electroanalysis
electroballistics
electrobiology
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electrocautery
electrochemistry
electrocorticogram
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electrodialysis
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electrojet
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electroluminescence
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electrolytic cell
electrolytic interrupter
electrolyze
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electromagnetic field
electromagnetic induction
electromagnetic radiation
electromagnetic spectrum
electromagnetic unit
electromagnetic wave
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electrometer
electromotive
electromotive force
electromotor
electromyography
electron
electron affinity
electron camera
electron gun
electron lens
electron microscope
electron multiplier
electron optics
electron telescope
electron tube
electron-ray tube
electronarcosis
electronnegative
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electronic brain
electronic data processing
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electronic organ
electronics
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electrophorus
electrophotography
electrophysiology
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electroscope
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electroshock therapy
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electrostatic unit
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epicalyx
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fibrinous
fibro-
fibroblast
fibroid
fibroin
fibroma
fibrosis
fibrous
fibrovascular
fibster
fibula
fiche
fichu
fickle
fico
fictile
fiction
fictional
fictionalize
fictionist
fictitious
fictive
fid
fiddle
fiddle pattern
fiddle-de-dee
fiddle-faddle
fiddlehead
fiddler
fiddler crab
fiddlestick
fiddlewood
fiddling
fideicommissary
fideicommissum
fideism
fidelity
fidge
fidget
fidgety
fiducial
fiduciary
fidus Achates
fie
fief
field
field army
field artillery
field battery
field captain
field corn
field day
field emission
field event
field glass
field glasses
field goal
field guide
field gun
field hockey
field hospital
field magnet
field marshal
field mouse
field of force
field of view
field of vision
field officer
field spaniel
field trial
field trip
field winding
field work
fielder
fieldfare
fieldpiece
fieldsman
fieldstone
fieldwork
fiend
filamentary
filamentous
filar
caria
cariosis
fatrate
fert
fich
fie
filefish
filet
filet lace
filet mignon
filial
fiat
filiation
fibeg
fibuster
fibicide
fibiform
figree
filigreed
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filing clerk
filings
fill
fill in
fill out
fill up
fill-in
fillagree
fille de chambre
fille de joie
filled gold
filler
filet
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filling station
fillip
fillister
filly
film
film library
film pack
film star
filmdom
filmy
filoplume
filose
gils
filter
filter bed
filter paper
filter tip
filterable
filth
filthy
filthy lucre
filtrate
filtration
filum
fimble
fimbria
fimbriate
fimbriation
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fin keel
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finagle
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final cause
finale
finalism
finalist
finality
finalize
finally
finance
finance bill
finance company
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financier
finback
finch
find
finder
finding
fine
fine art
fine print
fine structure
fine-cut
fine-draw
fine-drawn
fine-grain
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fine-tooth comb
fineable
finely
fineness
fineness ratio
finer
finery
fines herbes
finespun
finesse
finfoot
finger
finger bowl
finger painting
finger post
finger wave
fingerboard
fingerbreath
fingered
fingerling
fingermail
fingerprint
fingerstall
fingertip
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finicking
finicky
fining
finis
finish
finished
finishing school
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finite verb
finitude
fink
finnan haddie
finnan haddock
finned
finny
fino
finochio
fiord
fiorin
fioritura
first estate
cold
first floor
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first fruits
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first lady
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first lieutenant
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first mate
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first mortgage
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first name
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first offender
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first officer
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first person
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first post
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first principle
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first quarter
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first reading
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first refusal
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first sergeant
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first string
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first water
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first-born
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first-class
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first-day cover
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first-degree burn
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first-foot
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first-nighter
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first-rate
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firsthand
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firstling
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firstly
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firth
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fisc
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fiscal
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fiscal year
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fish
cold
fish and chips
cold
fish cake
cold
fish fry
cold
fish hawk
cold
fish joint
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fish ladder
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fish louse
cold
fish meal
cold
fish out
cold
fishbolt
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fishbowl
cold
fisher
cold
fisherman
cold
fisherman’s bend
fishery
fisheye lens
fishgig
fishhook
fishing
fishing rod
fishing smack
fishing tackle
fishmonger
fishnet
fishplate
fishskin disease
fishtail
fishwife
fishworm
fishy
fissi-
fissile
fission
fission bomb
fissionable
fissiparous
fissirostral
fissure
fissure of Rolando
fissure of Sylvius
fist
fistic
fisticuffs
fistula
fistulous
fit
fit in
fit out
fit up
fitch
fitful
fitly
fitment
fitted
fitter
fitting
five
five hundred
five senses
five-and-ten
five-finger
five-spot
five-star
fivefold
fivepenny
fiver
fives
fix
fix up
fixate
fixation
fixative
fixed
fixed assets
fixed capital
fixed charge
fixed idea
fixed oil
fixed price
fixed satellite
fixed star
fixed-do system
fixer
fixing
fixity
fixture
fizgig
fizz
fizzle
fizzy
fjeld
fjord
fl.
fl. dr.
fl. oz.
flabbergast
flabby
flabellate
flabellum
flaccid
flack
flacon
flag
flag day
flag of convenience
flag of truce
flag officer
flag rank
flag-waving
flagella
flapper
flare
flare-up
flaring
flash
flash burn
flash card
flash flood
flash gun
flash lamp
flash photography
flash point
flashback
flashboard
flashbulb
flashcube
flasher
flashgun
flashing
flashing point
flashlight
flashover
flashy
flask
flasket
flat
flat arch
flat knot
flat race
flat roof
flat silver
flat spin
flat tire
flat wash
flat-bed press
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flatcar
flatfish
flatfoot
flatfooted
flathead
flatiron
flatling
flats
flatten
flatter
flattery
flattie
flight feather
flight formation
flight path
flight plan
flight recorder
flight simulator
flight strip
flight surgeon
flightless
fligthy
flimflam
flimsy
flinch
flinders
fling
flinger
flint
flint glass
flintlock
flinty
flip
flip side
flip-flop
flippant
flipper
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flitch
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flittermouse
fitting
flivver
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float glass
float-feed
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floatage
floatation
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floating dock
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floating island
floating policy
floating rib
floating stock
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floatstone
floaty
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flocculate
floccule
flocculent
flocculus
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flocky
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flogging
flong
flood
flood control
flood insurance
flood lamp
flood plain
flood tide
flooded
floodgate
floodlight
floor
floor broker
floor lamp
floor leader
floor manager
floor plan
floor show
floor trader
floorage
floorboard
floorer
flooring
flooring saw
floorman
floorwalker
floozy
flop
flop-eared
flophouse
floppy
flor.
flora
floral
floral envelope
floreate
florescence
floret
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floribunda
floriculture
florid
florilegium
florin
florist
floristic
floruit
flory
flos ferri
floss
flossy
flotage
flotation
flotilla
flotsam
flotsam and jetsam
flounce
flouncing
flounder
flour
flour mill
flourish
flourishing
floury
flout
flow
flow chart
flow sheet
flowage
flower
flower girl
flower head
flower power
flower-de-luce
flowerage
flowered
flowerer
floweret
flowering
flowering maple
flowering moss
flowering plant
flowerless
flowerlike
flowerpot
flowery
flowing
flown
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fluctuate
fluctuation
flue
flue pipe
flue stop
flue-cure
fluency
fluent
fluff
fluffy
flugelhorn
fluid
fluid dram
fluid drive
fluid mechanics
fluid ounce
fluid pressure
fluidextract
fluidics
fluidize
fluke
fluky
flume
flummery
flumnox
flump
flung
flunk
flunkey
flunky
fluor
fluor-
fluorene
fluoresce
fluorescein
fluorescence
fluorescent
fluorescent lamp
fluoric
fluoridate
fluoridation
fluoride
fluorinate
fluorine
fluorite
fluoro-
fluorocarbon
fluorometer
fluoroscope
fluoroscopy
fluorosis
fluorspar
flurried
flurry
flush
fluster
flute
fluted
fluter
fluting
flutist
flutter
flutter kick
flutterboard
fluttery
fluvial
fluviatile
fluviomarine
flux
flux density
fluxion
fluxmeter
fly
fly agaric
fly ash
fly casting
fly gallery
fly rod
fly sheet
fly-by-night
fly-fish
flyaway
flyback
flyblow
flyblown
flyboat
flycatcher
flyer
flying
flying boat
flying bomb
flying boxcar
flying bridge
flying buttress
flying circus
flying column
flying doctor
flying dragon
flying field
flying fish
flying fox
flying frog
flying gurnard
flying jib
flying jib boom
flying lemur
flying lizard
flying machine
flying mare
flying phalanger
flying saucer
flying squad
flying squirrel
flying start
flying wing
flyleaf
flyman
flyover
flypaper
flyspeck
flyte
flytrap
flyweight
flywheel
fm.
fo'c's'le
fo'c'sle
fo.
foal
foam
foam rubber
foamflower
folder
folderol
folding door
folding money
folia
foliaceous
foliage
foliar
foliate
foliated
foliation
folic acid
folie
folio
foliolate
foliole
foliose
folium
folk
folk dance
folk etymology
folk medicine
folk music
folk singer
folk singing
folk song
folk tale
folk-rock
folklore
folkmoot
folksy
folkway
folkways
foll.
follicle
follicle-stimulating hormone
folliculin
follow
follow out
follow through
follow up
follow-through
follow-up
follower
following
folly
foment
fomentation
fond
fondant
fondle
fondly
fondness
fondue
fons et origo
font
fontanel
food
food chain
food poisoning
foodstuff
foofaraw
fool
fool's cap
fool's errand
fool's gold
fool's paradise
fool's-parsley
fooler
foolhardy
foolish
foolproof
foolscap
foot
foot brake
foot fault
foot rot
foot rule
foot soldier
foot warmer
foot-and-mouth disease
foot-candle
foot-lambert
foot-pound
foot-pound-second
foot-poundal
foot-ton
footage
football
footboard
footboy
footbridge
footcloth
footed
footer
footfall
forte
forte-piano
forth
forthcoming
forthright
forthwith
fortieth
fortification
fortified wine
fortify
fortis
fortissimo
fortitude
fortnight
fornightly
fortress
fortuitism
fortuitous
fortuity
fortunate
fortune
fortune cookie
fortune hunter
fortune-teller
fortuneteller
fortunetelling
forty
forty winks
forty-five
forty-four
forty-niner
fortyish
forum
forward
forward delivery
forward pass
forward quotation
forward-looking
forwarder
forwarding
forwardness
forwards
forwent
forwhy
forworn
forzando
fossa
fosse
fossette
fossick
fossil
fossiliferous
fossiilize
fossorial
foster
foster brother
foster child
foster home
foster sister
fosterage
fosterling
fou
foudroyant
fought
foul
foul play
foul shot
foul up
foul-mouthed
foul-up
foulard
foulmouthed
foulness
foumart
found
foundation
foundation garment
foundation stone
founder
founders’ shares
foundling
foundry
foundry proof
fount
fountain
fountain pen
fountainhead
four
four flush
four-cycle
four-dimensional
four-eyed fish
four-flush
four-handed
four-in-hand
four-leaf clover
four-legged
four-letter word
four-o'clock
four-poster
four-way
four-wheeler
fourchette
fourflusher
fourfold
fourgon
fourpence
fourpenny
fourscore
foursome
foursquare
fourteen
fourteenth
fourth
fourth dimension
fourth estate
fourth-class
fourthly
fovea
fovea centralis
foveola
fowl
fowling
fowling piece
fox
fox grape
fox hunting
fox squirrel
fox terrier
fox trot
fox-trot
foxed
foxglove
foxhole
foxhound
foxing
foxtail
foxy
foyer
fp
fr.
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fraction
fractional
fractional currency
fractional distillation
fractionate
fractionize
fractious
fractocumulus
fractostratus
fracture
frae
fraenum
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fragile
fragment
fragmental
fragmentary
fragmentation
fragmentation bomb
fragrance
fragrant
frail
frailty
fraise
frambesia
framboise
frame
frame aerial
frame house
frame line
frame of reference
frame-up
framework
framing
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franc-tireur
franchise
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frankalmoign
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frankincense
franklin
franklinite
frankly
free radical
free rider
free silver
free socage
free speech
free thought
free throw
free trade
free verse
free will
free zone
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free-for-all
free-handed
free-hearted
free-living
free-spoken
free-swimming
freeboard
freeboot
freebooter
freeborn
freedman
freedom
freedom fighter
freedom rider
freedwoman
freehand
freehold
freeholder
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freeloader
freely
freeman
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freemasonry
freeness
freer
freesia
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freestyle
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freeway
freewheel
freewheeling
freewill
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friary
frible
fricandeau
fricassee
frication
fricative
friction
friction clutch
friction match
friction tape
frictional
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fried
friedcake
friend
friend at court
friendly
friendship
frier
frieze
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frigate
frigate bird
frigging
fright
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frightened
frightful
frightfully
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frigidarium
frigorific
frijol
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frilling
fringe
fringe benefit
fringe tree
fringed orchis
fringing reef
frippery
frisette
friseur
frisk
frisket
frisky
frit
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frontogenesis
frontolysis
fronton
frontward
frontwards
flore
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frost heave
frost line
frost smoke
frostbite
frostbitten
frosted
frosting
frostwork
frosty
froth
frothy
frotage
froufrou
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froward
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frowst
frowsty
frowsy
frowzy
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fructification
fructificative
fructify
fructose
fructuous
frug
frugal
frugivorous
fruit
fruit cup
fruit fly
fruit knife
fruit salad
fruit sugar
fruit tree
fulfill
fulfillment
fulgent
fulgor
fulgurant
fulgurate
fulgurating
fulguration
fulgurite
fulgurous
fuliginous
full
full blood
full dress
full house
full moon
full nelson
full professor
full sail
full score
full stop
full swing
full tilt
full time
full-blooded
full-blown
full-bodied
full-faced
full-fledged
full-grown
full-length
full-mouthed
full-rigged
full-scale
full-time
fullback
fuller
fuller's earth
fuller's teasel
fully
fulmar
fulminant
fulminate
fulminating powder
fulmination
fulminic acid
fulminous
fulsome
galilee
galimatias
galingale
galiot
galipot
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gall midge
gall wasp
gallant
gallantry
galbladder
galleass
galleon
gallery
gallery forest
galley
galley proof
galley slave
galley-west
galifly
galliard
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galic acid
galligaskins
gallimaufry
gallinaceous
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gallinule
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gallivant
galliwas
gallnut
galloglass
gallon
gallonage
galloon
galloot
gallop
gallopade
galloping
gallous
gallows
gallows bird
gallows humor
gallows tree
gallstone
galluses
galoot
galop
galore
galosh
galoshes
galumph
galvanic
galvanic pile
galvanism
galvanize
galvanized iron
galvano-
galvanometer
galvanoscope
galvanotropism
galyak
gam
gama grass
gamb
gamba
gambado
gambeson
gambier
gambit
gamble
gambling house
gamboge
gambol
gambrel
gambrel roof
game
game bird
game fish
game fowl
game point
game room
game theory
game warden
gamecock
gamekeeper
gamelan
gamely
gameness
gamesmanship
gamesome
gamester
gametangium
gamete
gameto-
gametocyte
gametogenesis
gametophore
gametophyte
gamic
gamin
gamine
gaming
gamma
gamma globulin
gamma iron
gamma radiation
gamma ray
gammadion
gammer
gammon
gammy
gamo-
gamogenesis
gamone
gamopetalous
gamophyllous
gamosepalous
gamp
gamut
gamy
gan
gander
gandy dancer
ganef
gang
gang plow
gang saw
gangboard
ganger
gangland
gangling
ganglion
gangplank
gangrel
gangrene
gangster
gangue
gangway
gangway ladder
gastrulation
gasworks
gat
gate
gate-crasher
gate-leg table
gatefold
gatehouse
gatekeeper
gatepost
gateway
gather
gathering
gauche
gaucherie
gaudo

gaudery

gaudy

gauffer

gauge
gauger
gaultheria

gaunt

gauntlet

gauzy

gavage

gave

gavel
gavelkind

gavial

gavotte

gawk

gawy

gay

gaz.

gaze

gazebo

gazehound

gazelle

gazelle hound

gazette
gazetteer
gazpacho
gds.
cean
ganticinal
ganticline
gear
gearbox
gearing
gearshift
gearwheel
gecko
gee
gek
geese
geest
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gefi
geflte fish
gegenschein
gehlenite
geisha
gel
gel mineral
gelatin
gelatinate
gelatinize
gelatinoid
gelatinous
gelation
geld
gelding
gelid
gelignite
gelsemium
gelt
gem
gemeinschaft
geminate
gemination
gemma
gemmate
gemmation
gemmiparous
gemmulation
gemmule
gemology
gemot
gemsbok
gemstone
gen
gen.
genappe
gendarne
gendarmerie
gender
gene
gene flow
gene pool
geneal.
genealogical tree
genealogy
genera
generable
general
general court-martial
general delivery
general election
general headquarters
general hospital
general linguistics
general of the army
general officer
general paralysis
general partner
general post office
general practitioner
general semantics
general sessions
general staff
general store
general strike
general theory of relativity
genralissimo
generalist
generality
generalization
generalize
generally
generalship
generate
generation
generative
generative grammar
generator
genatrix
generic
generosity
gentlefolk
gentleman
gentleman's gentleman
gentleman-at-arms
gentleman-farmer
gentlemanly
gentlemen's agreement
gentleness
gentlewoman
gentry
gen
genuflect
genuflection
genuine
genus
geo-
geocentric
geocentric parallax
geochemistry
geochronology
ged.
geode
geodesic
geodesic dome
geodesy
geodetic
gedynamics
ged.
geognosy
geographer
geographical
geographical mile
geography
ged.
geoid
geol.
geologize
geology
geom.
geomancer
geomancy
geometer
geometric
geometric mean
geometric progression
geometric ratio
geometric series
geometrical optics
geometrician
geometrid
gemetrize
gometry
gemorphic
gemomorphology
gephyagy
geophilous
gephysics
gephyte
gepolitics
geponic
geponics
georama
gergic
geosphere
gestastic
gestatics
gestrophic
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gesyncline
geotaxis
gedtectonic
gedtectonic geology
gethermal
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gerah
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geranium
geratology
gerbil
gerent
gerenuk
gerfalcon
geriatric
geriatrician
geriatrics
germp
germp cell
germp layer
germp plasm
germp theory
germp warfare
german
germander
germane
germanic
germanium
germanous
germen
gericide
germinal
germinal vesicle
germinant
germinate
germinative
geront-
gerontocracy
gerontology
geronym
gerund
gerundive
gesellschaft
gesso
gest
gestalt
gestate
gestation
gesticulate
gesticulation
gesticulative
gesticulatory
gesture
gesundheit
get
get about
get across
get ahead
get along
get around
get at
get away
get back
get by
get down
get in
get into
get off
get on
get over
get round
get through
get up
get-together
get-up-and-go
getaway
getter
getup
geum
gewgaw
gey
geyser
geyserite
gharry
ghastly
ghat
ghazi
gherkin
ghetto
ghost
ghost dance
ghost moth
ghost town
ghost word
ghostly
ghostwrite
ghoul
ghyll
gi.
giant
giant panda
giant powder
giant star
giant tortoise
giantess
giantism
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gibber
gibberellic acid
gibberish
gibbet
gibbon
gibbosity
gibbous
gibbsite
gibe
giblet
giblets
gid
giddy
gie
gift
gift of gab
gift of tongues
gift tax
gifted
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giga-
gigahertz
gigantean
gigantic
gigantism
giggle
gigolo
gigot
gigue
gilbert
gild
gilded
gilder
guling
gilgai
gill
gill fungus
gill net
gill slit
gillie
gills
gillyflower
gilt
gilt-edged
gilthead
gimbals
gimcrack
gimcrackery
gimel
gimlet
gimlet eye
gimmel
gimmick
gimp
gin
gin and tonic
gin rickey
gin rummy
gin sling
ginger
ginger ale
ginger beer
ginger group
ginger snap
ginger wine
gingerbread
gingerbread tree
gingerly
gingersnap
gingery
gingham
gingili
gingivitis
ginglymus
gink
ginkgo
ginseng
gip
gipon
giraffe
girandole
girasol
gird
girder
giddle
girdle-tailed lizard
girdler
girl
girl Friday
girlfriend
girlhood
girlie
girlish
giro
girosol
girt
girth
gisarme
gismo
gist
git
gittern
give
give away
give in
give off
give out
give over
give up
give-and-take
glide
glide bomb
glide-bomb
slider
gliding joint
glim
glimmer
glimmering
glimpse
lint
glioma
glisade
glissando
glisten
glomerate
glomerule
glomerulonephritis
glomerulus
gloam
gloaming
gloat
glob
global
globate
globe
globe-trotter
globefish
globeflower
globetrotter
globigerina
globin
globoid
globose
globular
globule
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globulin
glochidiate
glochidium
glockenspiel
glomerate
glomeration
glomerule
glomerulonephritis
glomerulus
gloom
glooming
gloomy
glop
glorification
glorify
gloriole
glorious
glory
glory hole
glory-of-the-snow
gloss
gloss.
glossa
glossal
glossary
glossator
glossectomy
glossematics
glosseme
glossitis
glosso-
glossographer
glossography
glossolalia
glossology
glossopharyngeal nerve
glossotomy
glossy
glottal
glottal stop
glottalized
glottic
glottis
glottochronology
glottology
glove
glove compartment
glover
glow
glow discharge
glow lamp
glower
glowing
glowworm
gloxinia
gloze
glt.
glucinum
gluconeogenesis
glucoprotein
glucose
gluco-side
glucosuria
gluce
gluey
glum
glume
glut
glutamate
glutamic acid
glutamine
glutathione
gluteal
glutelin
gluten
gluten bread
glutinous
gluteus
gluteus maximus
glutinous
glutton
gluttonize
gluttonous
gluttony
glyceric
glyceric acid
glyceride
glycerin
glycerinate
glycerite
glycerol
glycer-yl
glyceryl trinitrate
glycine
glyco-
glycogen
glycogenesis
glycol
glycolic acid
glycolysis
glyconeogenesis
glycoprotein
glycoside
glycosuria
glyoxaline
glyph
glyphography
glyptic
go with
go-ahead
go-between
go-by
go-cart
go-devil
go-getter
go-go dancer
goa
goad
goal
goal line
goal post
goalie
goalkeeper
goaltender
goat
goat antelope
goat's-rue
goatee
goatfish
goathererd
goatish
goatsbeard
goatskin
goatsucker
gob
go bang
goblet
gobble
gobbledegook
gobbledygook
gobbler
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goblet
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go bo
goby
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godchild
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goddamned
goddaughter
goddess
godfather
godforsaken
godhead
godhood
goodish
goodly
goodman
goodness
goods
goods and chattels
goodwife
goodwill
goody
goody-goody
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goof
goofball
goofy
googly
googol
googolplex
gook
goon
gooney bird
goop
goosander
goose
goose barnacle
goose flesh
goose grass
goose grease
goose pimples
goose step
goose-step
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goosefish
gooseflesh
goosefoot
goosegog
goosherd
gooseneck
goosy
gopak
gopher
gopher snake
gopher wood
gopherwood
goral
gorblimey
gorcok

gore
gorge
grain alcohol
grain elevator
grained
grainfield
grains of paradise
grainy
grallatorial
gram
gram atom
gram calorie
gram equivalent
gram molecule
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grama grass
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gramercy
gramicidin
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grammalogue
grammar
grammar school
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grammatical meaning
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grampus
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granary
grand
grand duchess
grand duchy
grand duke
grand jury
grand larceny
grand mal
grand opera
grand piano
grand slam
grand tour
grand vizier
grand-
grandam
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grandchild
granddad
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granuloma
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grapery
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grapevine
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graph paper
grapheme
graphemics
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graphic arts
graphics
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graphitize
graphology
graphomotor
grapnel
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grapple
grapple plant
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grappling iron
graptolite
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grasping
grass
grass cloth
grass court
grass hockey
grass roots
grass snake
grass tree
grass widow
grass-green
grass-of-Parnassus
grasshopper
grassland
grassplot
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graviton
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gravity cell
gravity dam
gravity fault
gravity knife
gravity wind
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gravy train
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gray eminence
gray fox
gray market
gray matter
gray wolf
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grayback
graybeard
grayish
grayling
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grease gun
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great auk
great calorie
great circle
great council
great crested grebe
great gross
great pox
great primer
great seal
great tit
great white heron
great year
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great-circle sailing
great-grandaunt
great-granduncle
great-nephew
great-niece
great-uncle
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greatly
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green belt
green corn
green dragon
green fingers
green gland
green glass
green heron
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green pepper
green plover
green soap
green tea
green thumb
green turtle
green vitriol
green woodpecker
green-eyed
greenback
greenbelt
greenbottle fly
greenbrier
greenery
greenfinch
greengage
greengrocer
greengrocery
greenhead
greenheart
greenhorn
greenhouse
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greenroom
greensand
greenshank
greensickness
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greyhen
greyhound
greylag
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grid variation
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giffon
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grille
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grillwork
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grindery
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grindstone
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grivet
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grommet
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groomsman
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grooved
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groovy
grope
groping
gros de Londres
gros point
grosbeak
groschen
grosgrain
gross
gross national product
gross profit
gross ton
gross weight
grossularite
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guanaco
guanase
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guanine
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guaranteed stock
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guaranty
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guard hair
guard ring
guard ship
guardant
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guardhouse
guardian
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guardianship
guardrail
guardroom
guardsman
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guberniya
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guereza
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guess-warp
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guesthouse
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guffaw
guggle
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guide rope
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guidebook
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guided wave
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guidepost
guidon
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guildsman
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guillotine
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guiltless
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guimpe
guinea
guinea fowl
guinea grains
guinea grass
guinea hen
guinea pig
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gunflint
gung ho
gunk
gunlock
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gunman
gunnel
gunner
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gunpaper
gunplay
gunpoint
gunpowder
gunrunning
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gunshot
gunslinger
gunsmith
gunstock
gunter
gunwale
gunyah
guppy
gurdwara
gurge
gurgitation
gurgle
gurglet
gurnard
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gustatory
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gynaecomastia
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gynandry
gynarchy
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gynec-
gyneco-
gynecocracy
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gyno-
gynoeceum
gynophore
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habitation
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habituate
habitude
habitue
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hacienda
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hackamore
hackberry
hackbut
hackery
hacking
hacking jacket
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hackman
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hackney coach
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haematin
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haematite
haemato-
haematoblast
haematocele
haematocrystal
haematogenesis
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haematoid
haematoma
haematopoiesis
haematoside
haematothermal
haematoxylin
haematoxylon
haematozoan
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haemoglobin
haemoid
haemolysin
haemolysis
haemophilia
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haemophilic
haemorrhage
haemostasis
haemostatic
haeres
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hafnium
haft
hag
hag-ridden
hagberry
hagbut
hagfish
haggadist
haggard
haggis
haggle
hagiarchy
hagio-
hagiocracy
hagiographer
hagiography
hagiolatry
hagiology
hagioscope
hame
hamlet
hammer
hammer and sickle
hammer and tongs
hammer beam
hammer out
hammered
hammerhead
hammering
hammerless
hammerlock
hammertoe
hammock
hammy
hamper
hamster
hamstring
hamulus
hamza
hanaper
hance
hand
hand down
hand drill
hand glass
hand grenade
hand in
hand on
hand organ
hand over
hand truck
hand's-breadth
hand-knit
hand-me-down
hand-off
hand-to-hand
hand-to-mouth
handbag
handball
handbarrow
handbill
handbook
handbreadth
handcar
handcart
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handed
handedness
handfast
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handful
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handgun
handhold
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handicapper
handicraft
handicraftsman
handily
handiness
handiwork
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handle
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handler
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handout
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handrail
hands
handsaw
handsel
handset
handshake
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handsomely
handspike
handspring
handstand
handwork
handwoven
handwriting
handy
handyman
hang
hang about
hang back
hang in
hang on
hang out
hang together
hang up
hang-up
hangar
hangbird
hangdog
hanger
hanger-on
hanging
hanging buttress
hanging post
hanging valley
hanging wall
hangman
hangnail
hangout
hangover
hank
hanker
hankering
hanky
hanky-panky
hansel
hansom
hanuman
hap
hapax legomenon
haphazard
haphazardly
hapless
haplite
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haplography
haploid
haploology
haplosis
haply
happen
happening
happenstance
happily
happiness
happy
happy hunting ground
happy-go-lucky
hapten
hara-kiri
harangue
harass
harassed
harbinger
harbor
harbor seal
harborage
harbour
harbourage
hard
hard and fast
hard candy
hard cash
hard cider
hard coal
hard copy
hard core
hard court
hard goods
hard hat
hard labor
hard landing
hard lines
hard palate
hard paste
hard rock
hard rubber
hard sauce
hard sell
hard wheat
hard-and-fast
hard-bitten
hard-boiled
hard-core
hard-favored
hard-featured
hard-nosed
hard-pressed
hard-set
hard-shell
hard-shell clam
hard-shell crab
hard-spun
hardback
hardball
hardboard
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hardened
hardener
hardening
hardening of the arteries
hardhack
hardheaded
hardhearted
hardihood
hardily
hardiness
hardly
hardness
hardpan
hards
hardship
hardtack
hardtack
hardtop
hardware
hardwood
hardworking
hardy
hare
hare and hounds
harebell
harebrained
harelip
harem
haricot
hark
hark back
harken
harl
harlequin
harlequin bug
harlequin duck
harlequin opal
harlequinade
harlot
harlotry
harm
harmattan
harmful
harmless
harmonic
harmonic analysis
harmonic mean
harmonic minor scale
harmonic motion
harmonic progression
harmonic series
harmonic tone
harmonica
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harmonics
harmonious
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harmonium
harmonize
harmony
harmotome
harness
harness cask
harness hitch
harness race
harnessed antelope
harp
harper
harping
harpist
harpoon
harpoon gun
harpischord
harpy
harpy eagle
harquebus
harquebusier
harridan
harrier
harrow
harrumph
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harsh
harslet
hart
hart's-tongue
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hartebeest
hartshorn
harum-scarum
haruspex
haruspicy
harvest
harvest home
harvest mite
harvest moon
harvest mouse
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harvestman
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has-been
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hat trick
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hatchery
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hatchet job
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hatchment
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haughty
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headcheese
headcloth
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headforemost
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headlong
headman
headmaster
headmistress
headmost
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headpin
headquarters
headrace
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headrest
headroom
heads
heads or tails
headsail
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headship
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heartsease
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heartstrings
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heat
heat barrier
heat capacity
heat content
heat engine
heat exchanger
heat exhaustion
heat lightning
heat prostration
heat pump
heat rash
heat shield
heat wave
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heath hen
heathberry
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heathenism
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heating element
heating pad
heatstroke
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heaven-sent
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hedge sparrow
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hedgehop
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hedgerow
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height
height of land
height-to-paper
heighten
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heir presumptive
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heirloom
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hell-raiser
hellbender
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heller
hellfire
hellgrammite
hellhole
hellhound
hellion
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hellkite
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helper
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helping hand
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helpmeet
helter-skelter
helve
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hematite
hemato-
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hemialgia
hemianopsia
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hemicycle
hemidemisemiquaver
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hemiplegia
hemipode
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hemline
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hemocyte
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hemolysis
hemophilia
hemorrhage
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hemostat
hemotherapy
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hemp nettle
hemp tree
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hen party
hen-and-chickens
henbane
henbit
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henchman
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heteroplasmy
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heteropterous
heterosexual
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heterotaxis
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heterotopia
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heterotypic
heterozygote
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hetman
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hexachlorophene
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hexahydrate
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hexameter
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hexane
hexangular
hexanoic acid
hexapartite
hexapla
hexapod
hexapody
hexarchy
hexastich
hexastyle
hexavalent
hexone
hexosan
hexose
hexyl
hexylresorcinol
hey
heyday
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hibernaculum
hibernal
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hibiscus
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hide-and-seek
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hidebound
hideous
hideout
hiding
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hierarch
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hieratic
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hierocracy
hierodule
hieroglyphic
hierogram
hierolatry
hierology
hierophant
hifalutin
higgle
higgledy-piggledy
higgler
high
high and mighty
high blood pressure
high camp
high comedy
high command
high commissioner
high day
high explosive
high fashion
high fidelity
high frequency
high hat
high jinks
high jump
high jumper
high noon
high place
high point
high priest
high relief
high school
high schooler
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high seas
high sign
high society
high spirits
high spot
high table
high tea
high tide
high time
high treason
high water
high wire
high-angle fire
high-class
high-colored
high-flown
high-grade
high-handed
high-hat
high-key
high-keyed
high-minded
high-muck-a-muck
high-octane
high-pitched
high-powered
high-pressure
high-priced
high-sounding
high-speed
high-speed steel
high-spirited
high-stepper
high-strung
high-tension
high-test
high-toned
high-up
high-water mark
high-wrought
highball
highbinder
highborn
highboy
highbred
highbrow
highchair
higher arithmetic
higher criticism
higher education
higher mathematics
higher-up
highfalutin
highflier
highjack
highland
highlight
highline
highly
highness
highroad
hight
hightail
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highway robbery
highwayman
hijack
hijacker
hike
hilarious
hilarity
hill
hill myna
hill station
hillbilly
hillbilly music
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hillside
hilltop
hilly
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hog peanut
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hokey-pokey
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holdfast
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holding company
holding pattern
holdover
holdup
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hole in one
hole up
hole-and-corner
holeproof
holiday
holier-than-thou
holily
holiness
holism
hollandaise sauce
holler
hollo
hollow
hollow-eyed
holly
holly fern
hollyhock
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holm oak
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holmium
holo-
holoblastic
holocaust
holocrine
holoenzyme
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holography
holohedral
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holoplastic
holophytic
holothurian
holotype
holozoic
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holus-bolus
holy
holy day
holy of holies
holy orders
holy place
holy rood
holy synod
holy war
holy water
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home economics
home guard
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home range
home rule
home run
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honey guide
honey locust
honey mesquite
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honey-sweet
honeybee
honeybunch
honeycomb
honeydew
honeydew melon
honeyed
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honesucker
honesuckle
honesuckle ornament
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honky-tonk
honor
honor point
honor roll
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hooded crow
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hoodlum
hoodman-blind
hoodoo
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hoof
hoof-and-mouth disease
hoofbeat
hoofbound
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hook
hook and eye
hook-nosed
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hooked
hooked rug
hooker
hooknose
hookup
hookworm
hooky
hooligan
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hoop pine
hoop skirt
hoop snake
hooper
hoopla
hoopoe
hooray
hoosegow
hoot
hoot owl
hootchy-kootchy
hootenanny
hooves
hop
hop clover
hop-o'-my-thumb
hope
hope chest
hopeful
hopefully
hopeless
hophead
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hopper
hopping
hopple
hopscotch
hoptoad
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horehound
horizon
horizontal
horizontal bar
horizontal stabilizer
horizontal union
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hormonal
hormone
horn
horn in
horn of plenty
horn silver
horn-mad
hornbeam
hornbill
hornblende
hornbook
horned
horned lizard
horned owl
horned poppy
horned pout
horned screamer
horned toad
horned viper
hornet
hornet's nest
hornpipe
hornstone
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hornwort
horny
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horologist
horologium
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horoscopy
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horrible
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horror
horror-struck
hors concours
hors d'oeuvre
hors de combat
horse
horse around
horse bean
horse brass
horse chestnut
horse gentian
horse latitudes
horse mackerel
horse marine
horse nettle
horse opera
horse pistol
horse sense
horse trader
horse-faced
horseback
horsecar
horseflesh
horsefly
horsehair
horseshide
horselaugh
horseleech
horsemanship
horsemint
horseplay
horsepower
horsepower-hour
horseradish
horseshit
horseshoe
horseshoe arch
horseshoe crab
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horseweed
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hospital bed
hospital corner
hospital ship
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hot buttered rum
hot cake
hot cockles
hot cross bun
hot dog
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hot line
hot metal
hot money
hot pants
hot pepper
hot plate
hot potato
hot rod
hot seat
hot spot
hot spring
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hot war
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hot-air balloon
hot-blooded
hot-cathode tube
hot-press
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hotheaded
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hound's-tongue
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house agent
house arrest
house detective
house finch
house flag
house martin
house mouse
house of God
house of assignation
house of cards
house of correction
house of detention
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house of prayer
house of prostitution
house of worship
house organ
house party
house physician
house sparrow
house trailer
house-raising
houseboat
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housecoat
housefather
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hydrocellulose
hydrocephalus
hydrochloric acid
hydrochloride
hydrocortisone
hydrocyanic acid
hydrodynamic
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hydroelectric
hydrofluoric acid
hydrofoil
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hydrogen bomb
hydrogen bromide
hydrogen chloride
hydrogen cyanide
hydrogen fluoride
hydrogen iodide
hydrogen ion
hydrogen peroxide
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hyperparathyroidism
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hypoglycemia
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hypomania
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hyrophosphoric acid
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hypophrygian mode
hypophyte
hypophysis
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ice plant
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imprudent
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in absentia
in aeternum
in articulo mortis
in camera
in esse
in extenso
in extremis
in flagrante delicto
in limine
in loco
in loco parentis
in medias res
in mem.
in memoriam
in perpetuum
in personam
in petto
in posse
in propria persona
in re
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in rerum natura
in situ
in statu quo
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in transitu
in utero
in vacuo
in vino veritas
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inalterable
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inanity
inappetence
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incendiariasm
incendiary
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income bond
income tax
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incoming
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labyrinth
labyrinth fish
labyrinthine
labyrinthodont
lac
lac insect
laccolith
lace
lacerate
lacerated
laceration
lacewing
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laches
lachrymal
lachrymator
lachrymatory
lachrymose
lacing
lacinate
lack
lackadasical
lackaday
lacker
lackey
lacking
lackluster
laconic
laconism
lacquer
lacrimial
lacrimial duct
lacrimial gland
lacrimator
lacrimatory
lacrosse
lactalbumin
lactam
lactary
lactase
lactate
lactation
lacteal
lacteous
lactescent
lactic
lactic acid
lactiferous
lacto-
lactobacillus
lactoflavin
lactogenic hormone
lactometer
lactone
lactoprotein
lactoscope
lactose
lacuna
lacunar
lacustrine
lacy
lad
ladanum
ladder
ladder back
ladder tournament
ladder truck
laddie
lade
laden
ladies’ man
lading
ladino
ladle
lady
lady bountiful
lady fern
lady's maid
lady's man
lady's-slipper
lady's-smock
lady's-thumb
lady's-tresses
landing gear
landing net
landing stage
landing strip
landlady
landlocked
landlubber
landlord
landlordism
landlubber
landman
landmark
landmass
landowner
lands
landscape
landscape architecture
landscape gardening
landscapist
landsider
landsknecht
landslide
landsman
landwaiter
landward
lane
lang
lang.
langlauf
langouste
langrage
langsyne
language
langue
langue d’oc
languet
languid
languish
languishing
languishment
languor
languorous
langur
laniard
laniary
laniferous
lank
lanky
lardaceous
larder
larder beetle
lardon
lardy
lares and penates
large
large calorie
large intestine
large-hearted
large-minded
large-scale
largely
largemouth bass
largess
larghetto
largish
largo
lariat
larine
lark
larkspur
larrigan
larrkin
larrup
larum
larva
larval
larvicide
laryngeal
laryngitis
laryngo-
laryngology
laryngoscope
laryngotomy
larynx
lasagne
lascar
lascivious
lase
laser
lash
lashing
lass
lassie
lassitude
lasso
last
lay into
lay off
lay on
lay out
lay over
lay reader
lay sister
lay to
lay up
lay-by
layer
layer cake
layette
laying on of hands
layman
layoff
layout
laywoman
lazar
lazaretto
laze
lazuli
lazulite
lazurite
lazy
lazy Susan
lazy daisy stitch
lazy tongs
lazybones
lb.
lb. ap.
lb. av.
lb. t.
lea
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leach
lead
lead acetate
lead arsenate
lead colic
lead glass
lead line
lead monoxide
lead off
lead on
lead pencil
lead poisoning
lead screw
lead tetraethyl
lead time
lead-in
lead-pipe cinch
leaden
leader
leadership
leading
leading article
leading edge
leading lady
leading light
leading man
leading question
leading strings
leadsman
leadwort
leaf
leaf bud
leaf fat
leaf insect
leaf miner
leaf mold
leaf monkey
leaf spot
leaf spring
leafage
leaflet
leafstalk
leafy
league
leaguer
leak
leakage
leaky
leal
lean
lean-to
leaning
leant
leap
leap year
leaper
leapfrog
leapt
learn
learned
learning
led
lederhosen
ledge
ledger
ledger board
ledger line
lee
lee shore
lee tide
leeboard
leech
leek
leek-green
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leery
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leeward
leeway
left
left wing
left-hand
left-handed
left-hander
left-luggage office
leftist
leftover
leftward
leftwards
lefty
leg
leg bye
leg-of-mutton
leg-of-mutton sail
leg-pull
leg.
legacy
legal
legal aid
legal cap
legal chemistry
legal holiday
legal medicine
legal separation
legal tender
legalese
legalism
legality
leopard
leopard frog
leopard lily
leopard moth
leopard's-bane
leotard
leper
lepido-
lepidolite
lepidopteran
lepidopterous
lepidosiren
lepidote
leporid
leporide
leporine
leprechaun
leprosarium
leprose
leprosy
leprous
lepto-
lepton
leptophyllous
leptorrhine
leptosome
leptospirosis
lesbian
lesbianism
lese majesty
lesion
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lesser panda
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let down
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lethal
lethargic
lethargy
letter
letter box
letter carrier
letter drop
letter of advice
letter of credit
letter of introduction
letter of marque
letter-perfect
lettered
letterhead
lettering
letterpress
letters
letters patent
letters testamentary
lettuce
letup
leu
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leuco base
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leucocratic
leucocyte
leucocytosis
leucoderma
leucoma
leucomaine
leucopenia
leucoplast
leucopoiesis
leucotomy
leukemia
leuko-
leukocyte
leukoderma
leukorrhea
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leveranter
levator
levee
level
level crossing
level line
level-headed
level-off
levelheaded
leveler
lever
leverage
leveret
leviable
leviathan
levigate
levin
levirate
levitate
levitation
levity
levo-
levoration
levorotatory
levulose
levy
levy en masse
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lewis
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lex
lex loci
lex non scripta
lex scripta
lex talionis
lex.
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lexical
lexical meaning
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lexicographer
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lexicologist
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lexicon
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light cruiser
light heavyweight
light horse
light into
light meter
light music
light opera
light out
light quantum
light show
light up
light verse
light-fingered
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light-headed
light-hearted
light-year
lighten
lightening
lighter
lighterage
lighterman
lightface
lighthearted
lighthouse
lighting
lightish
lightless
lightly
lightness
lightning
lightning arrester
lightning bug
lightning conductor
lightning rod
lightproof
lights
lights out
lightship
lightsome
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ligneous
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ligniform
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lignite
lignocellulose
lignum vitae
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ligula
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likable
like
like-minded
likelihood
likely
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likewise
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likker
lilac
liliaceous
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lily
lily iron
lily of the valley
lily pad
lily-livered
lily-trotter
lily-white
lima bean
limacine
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limber hole
limber up
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limbo
limbus
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lime burner
limeade
limekiln
limelight
limen
limerick
limes
limestone
limewater
limey
limicoline
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liminal
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limit point
limit switch
limitary
limitation
limitative
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limited company
limited edition
limited liability
limited monarchy
limited payment insurance
limiter
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linalool
linchpin
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line drawing
line drive
line engraving
line gauge
line of battle
line of credit
line of fire
line of force
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lipstick
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liquefacient
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liquid air
liquid crystal
liquid fire
liquid glass
liquid measure
liquid oxygen
liquid petrolatum
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lithometeor
lithophyte
lithopone
lithosphere
lithotomy
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livery stable
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living death
living picture
living room
living wage
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loan office
loan shark
loan translation
loan word
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loathly
loathsome
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lobelia
lobeline
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lobscouse
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lobster pot
lobster thermidor
lobster trick
lobule
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local color
local government
local option
local oscillator
local time
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locality
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lock out
lock step
lock stitch
lock up
lockage
locker
locker plant
locket
lockjaw
lockout
locksmith
lockup
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lco citato
lco disease
locoism
locomobile
locomotion
locomotive
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locomotor ataxia
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locule
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locus classicus
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lodestone
lodge
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log canoe
log chip
log line
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logan stone
loganberry
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logbook
locale
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loggerhead
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logging
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logjam
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logway
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lollipop
lollop
lolly
lollygag
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lone hand
lone wolf
lonely
loner
lonesome
long
long account
long arm
long cross
long distance
long dozen
long face
long haul
long horse
long house
long hundredweight
long johns
long jump
long measure
long moss
long pig
long primer
long shot
long suit
long ton
long vacation
long wave
long-distance
long-drawn
long-drawn-out
long-eared owl
long-faced
long-headed
long-horned beetle
long-legged
long-limbed
long-lived
long-playing
long-range
long-sighted
long-standing
long-sufferance
long-suffering
long-term
long-term bond
long-winded
longan
longanimity
longboat
longbow
longcloth
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longeron
longevity
longevous
longhair
longhand
longicorn
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longish
longitude
longitudinal
longitudinal wave
longleaf pine
longs
longship
longshore
longshoreman
longsome
longspur
longueur
longways
longwise
loo
looby
look
look after
look back
look forward to
look on
look over
look through
look up
look-in
look-see
look-through
looker
looker-on
looking glass
lookout
loom
looming
loon
low-grade
low-key
low-minded
low-necked
low-pitched
low-pressure
low-spirited
low-tension
low-water mark
lowborn
lowboy
lowbred
lowbrow
lower
lower case
lower chamber
lower class
lower criticism
lower deck
lower house
lower world
lower-case
lowerclassman
lowering
lowermost
lowest common denominator
lowest common multiple
lowland
lowlife
lowly
lox
loxdrome
loxdromic
loxdromics
loyal
loyalist
loyalty
lozenge
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luau
lubber
lubber line
lubber's hole
lubberly
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lubricious
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lugworm
lukewarm
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lullaby
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lumberjack
lumberman
lumberyard
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luminosity
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luminous flux
luminous intensity
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lumpen
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lumpish
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lumpy jaw
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lunacy
lunar
lunar caustic
lunar eclipse
lunar module
lunar month
lunar year
lunarian
lunate
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lunatic asylum
lunatic fringe
lunation
lunch
luncheon
luncheon meat
luncheonette
lunchroom
lune
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lux
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luxuriance
luxuriant
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luxurious
luxury
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lycanthrope
lycanthropy
lyceum
lych gate
lychnis
lycopodium
lyddite
lye
lying
lying-in
lyme grass
lymph
lymph cell
lymph gland
lymphadenitis
lymphangial
lymphangitis
lymphatic
lympho-
lymphoblast
lymphocyte
lymphocytosis
lymphoid
lymphoma
lymphosarcoma
lyncean
lynch
lynch law
lynching
lynx
lynx-eyed
lyonnaise
lyophilic
lyophilize
lyophobic
lyrate
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lyrebird
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lyricism
lyricist
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lyrist
lys-
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lysergic acid
lysergic acid diethylamide
lysimeter
lysin
lysine
lysis
lyso-
lysozyme
lyssa
lythraceous
lytic
lytta
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m.
m.m.f.
m.o.
m.p.
m.s.l.
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ma'am
mac
macabre
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macadamia
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macaroni
macaronic
macaroon
macaw
maccaboy
mace
macedoine
macerate
mach.
machete
machicolate
machicolation
machinate
machination
machine
machine bolt
machine gun
machine language
machine pistol
machine screw
machine shop
machine tool
machine-gun
machinery
machinist
machismo
machree
machzor
macintosh
mackerel
mackerel sky
mackinaw
mackintosh
mackle
macle
macro-
macrobiotic
macrobiotics
macroclimate
macrocosm
macrocytic anemia
macrogamete
macrography
macromolecule
macron
macronucleus
macrophage
macrophysics
macropterous
macroscopic
macospore
macruran
macula
maculate
maculation
macule
mad
mad staggers
madam
magnanimity
magnanimous
magnate
magnesia
magnesite
magnesium
magnesium oxide
magnet
magnetic
magnetic axis
magnetic bearing
magnetic circuit
magnetic compass
magnetic course
magnetic declination
magnetic dip
magnetic equator
magnetic field
magnetic flux
magnetic flux density
magnetic force
magnetic induction
magnetic meridian
magnetic mine
magnetic moment
magnetic needle
magnetic north
magnetic pickup
magnetic pole
magnetic potential
magnetic quantum number
magnetic storm
magnetic tape
magnetic variation
magnetics
magnetism
magnetite
magnetize
magneto
magneto-
magnetochemistry
magneto-electricity
magnetograph
magnetohydrodynamics
magnetometer
magnetomotive
magnetomotive force
magneton
maleic acid
malemute
malevolent
malfeasance
malformation
malfunction
malic acid
malice
malice aforethought
malicious
malign
malignancy
malignant
malignity
malines
maling
malison
mall
mallard
malleable
malleable iron
mallee
mallemuck
malleolus
mallet
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mallow
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malnutrition
malocclusion
malodorous
malonic acid
malonylurea
malpighiacious
malposition
malpractice
malt
malt extract
malt liquor
maltase
malted milk
maltha
maltose
maltreat
malvacious
malvasia
malversation
malvoisie
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mama's boy
mamba
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mamelon
mamey
mamma
mamal
mammalian
mammalogy
mammary
mammary gland
mammet
mammiferous
mammilla
mammillary
mammillate
mammon
mammoth
mammy
man
man Friday
man about town
man in the street
man of God
man of straw
man-at-arms
man-eater
man-eating
man-hour
man-made
man-of-war
man-sized
man-to-man
mana
manacle
manage
manageable
managed currency
management
manager
managerial
managing
managing editor
manakin
maraud
marauding
maravedi
marble
marble cake
marbleize
marbles
marbling
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marcasite
marcel
marcescent
march
march-past
marcher
marchesa
marchese
marching orders
marchioness
marchland
marchpane
marconigraph
mare
mare liberum
mare nostrum
mare's-nest
mare's-tail
maremma
mar.
margaric acid
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marguerite
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marigold
marigraph
marijuana
marimba
marina
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marinara
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marine engineer
marine insurance
mariner
mariner's compass
marinette
marish
marital
maritime
marjoram
mark
markdown
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market garden
market gardening
market order
market price
market research
market town
market value
marketable
marketing
marketplace
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markka
marksman
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markswoman
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marline
marlinespike
marlite
marmalade
marmalade tree
marmite
marmoreal
marmoset
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marocain
maroon
marplot
martini
martlet
martyr
martyrdom
martyrize
martyrology
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marvel
marvel-of-Peru
marvellous
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marzipan
masc.
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mascle
mascon
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masculine
masculine caesura
masculine rhyme
maser
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masjid
mask
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masked
masked ball
masker
masking tape
masochism
mason
mason bee
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masonry
masque
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masquerade
mass
mass media
mass meeting
mass noun
mass number
mass spectrograph
mass spectrometer
mass spectroscope
mass-produce
massacre
matrilinal
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matrimonial
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matrimony vine
matrix
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matter of course
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may tree
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mayflower
mayfly
mayhap
mayhem
mayn't
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meadow mouse
meadow mushroom
meadow rue
meadow saffron
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mealie
mealtime
mealworm
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mean
mean distance
mean free path
mean solar day
mean solar time
mean sun
mean time
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means test
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medical examiner
medical jurisprudence
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mossbunker
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mothball
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mother country
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mother superior
mother tongue
mother wit
mother-in-law
mother-of-pearl
motherhood
mothering
motherland
motherless
motherly
motherwort
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motion study
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near rhyme
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night raven
night robe
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nip and tuck
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nirvana
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nitrous bacteria
nitrous oxide
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nitty-gritty
nitwit
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niveous
nix
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no-show
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nobelium
nobility
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nobody
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nonconformity
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noncooperation
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nonjuror
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physical examination
physical geography
physical jerks
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pick on
pick out
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pickaninny
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pin down
pin money
pin rail
pin wrench
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pinto bean
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pinwheel
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pipe clay
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pipe dream
pipe of peace
pipe organ
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pitch pine
pitch pipe
pitch ratio
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pitch-dark
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pitchfork
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pitchstone
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pool table
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poor boy
poor law
poorhouse
poorly
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pop art
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population explosion
populous
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post house
post meridiem
post office
post road
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post-bellum
post-free
post-horse
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powder burn
powder charge
powder flask
powder horn
powder keg
powder metallurgy
powder mill
powder monkey
powder puff
powder room
powder snow
powdered milk
powdery
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power brake
power dive
power drill
power line
power loading
power of appointment
power of attorney
power pack
power plant
power politics
power saw
power series
power station
power steering
power structure
power supply
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preachment
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prescriptive
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present participle
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presidium
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press association
press conference
press gallery
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press release
press stud
pressed glass
presser
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pressman
pressmark
pressor
pressroom
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pressure cabin
pressure cooker
pressure gauge
pressure group
pressure head
pressure point
pressure suit
pressure-cook
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pretzel
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prevailing
prevalent
prevaricate
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prevenient
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prickly heat
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primary cell
primary color
primary election
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primary stress
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prime meridian
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prime mover
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private bill
private company
private enterprise
private eye
private first class
private parts
private practice
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privy chamber
privy council
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quick bread
quick fire
quick grass
quick march
quick time
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radio compass
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red currant
red deer
red duster
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red fire
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red giant
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red gum
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red heat
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red mullet
red osier
red pepper
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red shift
red snapper
red squirrel
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return ticket
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returning officer
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revelationist
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revenue tariff
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revolutionary
revolutionist
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revolving credit
revolving door
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rhetorician
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rhinoceros beetle
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ricebird
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rifle range
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rigger
rigging
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right
right angle
right ascension
right away
right field
right hand
right of way
right off
right triangle
right whale
right wing
right-angled triangle
right-hand
right-hand man
right-handed
right-hander
right-minded
righteous
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ring-necked
ring-necked pheasant
ring-tailed
ring-tailed cat
ringdove
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road
road agent
road hog
road metal
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road test
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roadblock
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roadrunner
roadside
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robber fly
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robe-de-chambre
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robin's-egg blue
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robomb
roborant
robot
robot bomb
robot pilot
rolling mill
rolling pin
rolling stone
rollmop
rollway
roly-poly
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roof garden
roof-deck
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rooftop
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room
room service
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rooming house
roommate
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rousing
roustabout
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rove beetle
rove-over
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rowing machine
rowlock
royal
royal blue
royal duke
royal fern
royal flush
royal jelly
royal palm
royal poinciana
royal purple
royal road
royal standard
royal tennis
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rubber tree
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rubberneck
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run-down
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run-of-the-mill
run-of-the-mine
run-through
runabout
runagate
runaway
runcible spoon
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runner and tackle
runner bean
runner-up
running
running board
running broad jump
running head
running knot
running light
running mate
running rigging
running start
running stitch
running title
runny
runoff
runt
runty
runway
rupee
rupiah
rupture
rural
rural dean
rural district
rural free delivery
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sacred cow
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sacrilege
sacrilegious
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sacring bell
sacristan
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sacrosanct
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sad sack
sad-faced
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saddle
saddle blanket
saddle horse
saddle roof
saddle seat
saddle soap
saddle-backed
saddleback
saddlebag
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saddlecloth
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safeguard
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safelight
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safety bicycle
safety factor
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safety match
safety pin
safety razor
safety valve
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sago palm
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sailor's-choice
sailplane
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salt marsh
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sanctitude
sanctity
sanctuary
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sand
sand castle
sand crack
sand dab
sand dollar
sand flea
sand hopper
sand lance
sand lizard
sand martin
sand painting
sand trap
sand-blind
sandal
sandalwood
sandarac
sandbag
sandbank
sandblast
sandbox
sandbox tree
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sanderling
sandfly
sandglass
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sandhog
sandman
sandpaper
sandpiper
sandpit
sandstone
sandstorm
sandwich
sandwich board
sandwich man
sandy
sandy blight
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sanitary belt
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sanitary towel
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sans pareil
sans serif
sans souci
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sapanwood
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saporous
sapota
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sapsago
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satyr play
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sauerkraut
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sauna
saunter
saurel
saurian
saurischian
sauropod
saury
sausage
saut de basque
sauterne
sauve qui peut
savage
savagery
savagism
savanna
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save-all
saveloy
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savings account
savings and loan association
savings bank
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saviour
savoir-faire
savoir-vivre
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saw palmetto
saw-toothed
sawbuck
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scholasticism
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scholium
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school age
school board
school year
schoolbag
schoolbook
schoolboy
schoolfellow
schoolgirl
schoolhouse
schooling
schoolma'am
schoolman
schoolmarm
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schoolmistress
schoolroom
schoolteacher
schooner
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schottische
schuss
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sciatic
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science fiction
sciential
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scientism
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scimitar
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scintillation
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scrimshaw
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scrip dividend
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scripture
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scrod
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scrotum
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scrub typhus
scrubber
scrubby
scrubland
scruff
scruffy
scrommage
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scuppernong
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scurile
scurility
scurilous
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scuvy
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scutch grass
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scuttle
scuttlebutt
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scyphus
scythe
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sea anchor
sea anemone
sea bag
sea bass
sea bird
sea biscuit
sea bream
sea breeze
sea captain
sea chest
sea coal
sea cow
sea devil
sea dog
sea duck
sea eagle
sea elephant
sea fan
sea foam
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sea gull
sea heath
sea holly
sea horse
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sea ladder
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sea legs
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sea mew
sea mile
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sea otter
sea perch
sea pink
sea power
sea purse
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sea robin
sea room
sea rover
sea serpent
sea shell
sea slug
sea snake
sea squill
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seasonal
seasoning
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seat belt
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seaworthy
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second childhood
second class
second cousin
second estate
second fiddle
second floor
second growth
second hand
second lieutenant
second mate
second mortgage
second nature
seedcase
seeder
seedling
seedtime
seedy
seeing
seek
seek out
seeker
seel
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seen
seep
seepage
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seesaw
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seldom
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self
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self-abnegation
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self-absorption
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self-aggrandizement
self-analysis
self-annihilation
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self-assertion
self-assurance
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self-confessed
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self-congratulation
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self-denial
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self-determination
self-devotion
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self-fulfillment
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self-immolation
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self-induction
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self-loading
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self-mastery
self-mortification
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self-possession
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self-propulsion
self-realization
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self-reliant
self-renunciation
self-reproach
self-respect
self-restraint
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self-sacrifice
self-satisfaction
self-satisfied
self-sealing
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self-seeking
self-service
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self-styled
self-sufficient
self-suggestion
self-support
self-supporting
self-sustaining
self-taught
self-will
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sell off
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sellers' market
selling race
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semiyearly
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semper paratus
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senior high school
seniority
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sensational
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sense datum
sense organ
sense perception
senseless
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spirit level
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spirit writing
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spirits of turpentine
spirits of wine
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square kilometer
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square piano
square root
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square shooter
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square-rigger
squarely
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squirrel-tail grass
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staff college
staff of life
staff officer
staff sergeant
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staffman
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stag beetle
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stage business
stage direction
stage director
stage door
stage fright
stage left
stage manager
stage right
stage screw
stage whisper
stage-manage
stage-struck
stagecoach
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stand pat
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stand-in
stand-up
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standard cost
standard deviation
standard gauge
standard of living
standard time
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standee
standfast
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standing broad jump
standing committee
standing lug
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standing rigging
standing wave
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star-spangled
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state capitalism
state medicine
state of war
state prison
state socialism
state trooper
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states' rights
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surface noise
surface plate
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surface tension
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tailband	ailgate	ailing	aille
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take on
take out
take over
take to
take up
take-home pay
taken
takeoff
takeover
taker	akin	aking
talapoin	alaria	alc
talcum powder	ale	alebearer
talent	talented	aler	tales
talesman	aligrade	alion	aliped	alipes
talisman	alk
talk about
talk back
talk down
talk into
talkathon	talkative	talkfest	talkie
talking book
talking picture
talking-to	talky	tall	tall oil	tallage	tallboy	tallith	tallow
tallowy
tally
tally sheet
tallyho
tallyman
talon
taluk
talus	
tam
tam-o'-shanter
tam-tam
tamable
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tanbark	
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tandem bicycle	
tang	
tangelo	
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tangleberry	
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tank car
tank farming
tank top
tank up
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tankage
tankard
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tanner
tannery
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tannic acid
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tansy	
tant mieux
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tantalous
tantalum	
tantamount
tantara	
tantivy	
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tantrum	
tap
tap dance
tap water
tap-dance	
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tape deck
tape grass
tape machine
tape measure
tape recorder
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tartan
tartar
tartar emetic
tartar sauce
tartar steak
tartaric
tartarous
tartlet
tartrate
tartrazine
tarweed
tasimeter	ask	ask force	askmaster	askwork	ass	asse	assel	asset	aste	taste bud	tasteful	tasteless	taster	tasty	tat	tater	tatouay	tatter	tatterdemalion	tattered	tatting	tattle	tattler	tattletale	tattoo	tatty	tau	tau cross	taught	taunt	taupe	taurine	tauro-
tauromachy
taut
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tautologism
tautologize
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tautomer
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tavern
taverner
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tawdry
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tax
tax evasion
tax rate
tax return
tax-deductible
tax-exempt
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taxidermy
taxiplane
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taxiway
taxonomy
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tea break
tea dance
tea garden
tea gown
tea party
tea rose
tea service
tea table
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tea tree
tea wagon
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teaching aid
teaching elder
teaching fellow
tecup
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team spirit
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teamwork
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tear down
tear gas
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tear off
tear-jerker
tearful
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tearoom
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teaspoon
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telefilm
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telegraphy
telekinesis
telemark
telemechanics
telemeter
telemetry
telemotor	
telencephalon
teleology
teleost
telepathist
telepathy
telephone
telephone booth
telephone directory
telephone pole
telephone receiver
telephonic
telephonist
telephony
telephoto
telephoto lens
telephotography
teleplay
teleprinter
teleran

telecope

telescopic

telescopy

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teleesthesia
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telethermometer
telethon
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tensile strength
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tent stitch
tentacle
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terra cotta
terra firma
terra incognita
terra sigillata
terra-cotta
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terrarium
terrazzo
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terrestrial
terrestrial globe
terrestrial telescope
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terrific
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territorial
territorial waters
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tertiary color
tertium quid
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terza rima
terzetto
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test case
test paper
test pattern
test pilot
test tube
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tetrachord
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tetradymite
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tetrafluoroethylene
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tetralogy
tetramer
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tetraploid
tetrapod
tetrapody
tetrapertus
tetarch
tetraspore
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tetrasichous
tetra syllable
tetrameric
tetravalent
tetrate
tetroxide
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textbook
textile
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textual criticism
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thermal barrier
thermal conductivity
thermal efficiency
thermal spring
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thermion
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thermionic current
thermionic emission
thermionic tube
thermionic valve
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thermistor
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thermobarometer
thermochemistry
thermocline
thermocouple
thermodynamic
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thermoelectric
thermoelectric effect
thermoelectricity
thermoelectrometer
thermogenesis
thermograph
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thermoluminescence
thermoluminescent
thermolysis
thermomagnetic
thermometer
thermometry
thermonuclear
thermonuclear bomb
thermonuclear reaction
thermophone
thermopile
thermoplastic
thermoscope
thermosetting
thermosiphon
thermosphere
thermostat
thermostatics
therмотaxis
thermotensile
thermotherapy
theroid
theropod
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thiazole
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thick-witted
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thickleaf
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thickset
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thimblery
thimbleweed
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think out
think over
think up
thinkable
thinker
thinking
thinner
thinnish
thiocyanic acid
thiol
thionate
thionic
thiosinamine
thiouracil
three-dimensional
three-four time
three-gaited
three-legged race
three-master
three-mile limit
three-part time
three-phase
three-piece
three-ply
three-point landing
three-quarter
three-quarter nelson
three-quarter time
three-ring circus
three-square
three-wheeler
threefold
threepence
threepenny bit
threescore
threesome
thremmatology
threnode
threnody
threonine
thresh
thresh out
thresher
threshing machine
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thriftless
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thriller
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thrombin
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thromboplastic
thromboplastin
thrombosis
thrombus
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throne room
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through street
through-composed
throughout
throughput
throughway
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throw about
throw off
throw out
throw over
throw together
throw up
throwaway
throwback
thrower
throwing stick
thrown
thrum
thrush
thrust
thrust bearing
thrust fault
thruster
thruway
thud
thug
thuggee
thuja
thulium
thumb
thumb index
tiercel
tiff
tiffin
tiger
tiger beetle
tiger cat
tiger lily
tiger moth
tiger shark
tiger snake
tiger's-eye
tigerish
tight
tight-lipped
tighten
tightfisted
tightrope
tightrope walker
tights
tightwad
tiglic acid
tigon
tigress	ike	iki	il	tilbury	ilde	ile	tilefish	tiliaceous	tiling	ill	illage	illandsia	tiller	ilt	tilt hammer	tilth	tiltyard	timbal	timbale	timber	timber hitch	timber line	timber wolf	timbered	timberhead
timbering
timberland
timberwork
timbre
timbrel
time
time and a half
time and motion study
time ball
time bill
time bomb
time clock
time constant
time deposit
time discount
time draft
time exposure
time immemorial
time loan
time lock
time money
time of day
time sharing
time sheet
time signal
time signature
time study
time zone
time-consuming
time-honored
time-lag
time-lapse photography
time-out
timecard
timekeeper
timeless	
timely
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timelapse
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timeserver	
timetable	
timework	
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tin god
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tin soldier
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tincture	
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tinfoil		ting		ting-a-ling		tinge		tingle		tingly		tinhorn		tinker	
tinkle	
tinkling		tinned		tinner		tinnitus	
tinny		tinsel	
tinsmith		tinstone		tint		tintinnabulation		tintinnabulum		tintometer		tintype		tinware		tinworks		tiny		tip		tip-top		tipcat
tody
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 toe-in
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 toffee
 toffee-nosed
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 together
 togetherness
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 toggle joint
 toggle switch
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 toilet water
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toll call
toll road
tollbooth
tollgate
tollhouse
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toluidine
toluol
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tomahawk
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tomb
tombac
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tomboy
tombstone
tomcat
tone
tomfool
tomfoolery
tommyrot
tomorrow
tompion
tomtit
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tonal
tonality
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tone arm
tone control
tone deafness
tone down
tone language
tone poem
tone up
tone-deaf
toneless
toneme
tonetic	ong
tonga
tongs
tongue
tongue depressor
tongue twister
tongue-and-groove joint
tongue-lash
tongue-lashing
tongue-tied
tonguing
tonic
tonic accent
tonic sol-fa
tonic spasm
tonicity
tonight
tonnage
tonne
tonneau
tonometer
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tonsillitis
tonsillotomy
tonsorial
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tontine
tonus
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too
toodle-oo
took
tool
tool steel
tooling
toolmaker
toot
tooth
tooth and nail
tooth powder
tooth shell
toothache
toothache tree
toothbrush
toothed
toothed whale
toothless
toothlike
toothpaste
toothpick
toothsome
toothwort
toothy
tottle
toots
tootsy
top
top banana
top boot
top dog
top dressing
top hat
top off
top out
top-drawer
top-dress
top-heavy
top-hole
top-level
top-notch
topaz
topazolite
topcoat
tope
topee
toper
topflight
topfull
topgallant
topgallant mast
topgallant sail
tophus
topi
topic
topic sentence
topical
topknot
topless
toplofty
topmast
topminnow
topmost
topnotch
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topog.
topographer
topography
topological group
topological space
topology
toronym
toonymy
topotype
topper
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topping lift
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topsail
topside
topsoil
topsy-turvy
topsy-turvydom
toque
tor
torbernite
torch
torch song
torchbearer
torchier
torchon lace
torchwood
tore
toreador
toreador pants
torero
toreutic
toreutics
toric lens
torii
torrent
torrentil
torrentor
torn
tornado
tornado lantern
torose
torpedo
torpedo boat
torpedo tube
torpedo-boat destroyer
torpedoman
torpid
torpor
torque
torque converter
torque wrench
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torse
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torsion bar
torsk
torso
tort
tort-feasor
torticollis
tortile
tortilla
tortious
tortoise
tortoise-shell
tortoni
tortricid
tortuosity
tortuous
torture
torus
tosh
toss
toss off
tossspot
tot
total
total depravity
total eclipse
total recall
totalitarian
totalitarianism
totality
totalizator
totalizer
totally
totaquine
tote
tote bag
tout ensemble
tout le monde
touter
touze
tow
tow car
tow truck
tow-haired
towage
toward
towardly
towards
towboat
towel
toweling
towelling
tower
tower of silence
towering
towery
towhead
towhee
towing path
towl
town
town clerk
town crier
town hall
town house
town meeting
town planning
townscape
townsfolk
township
townsman
townspeople
townswoman
towpath
towrope
tox.
toxemia
toxic
toxicant
toxicity
toxicogenic
toxicology
toxicosis
toxin
toxin-antitoxin
toxoid
toxophilite
toxoplasmosis
toy
toy dog
tr.
trabeated
trace
trace element
traceable
tracer
tracer bullet
tracery
trachea
tracheid
tracheitis
tracheo-
tracheostomy
tracheotomy
trachoma
trachyte
trachytic
tracing
tracing paper
track
track down
track meet
track shoe
track-and-field
tracking station
trackless
trackless trolley
trackman
tract
tractable
tractate
tractile
traction
traction engine
tractor
trade
trade acceptance
trade book
trade discount
trade name
trade on
trade route
transducer
transduction
transect
transept
transeunt
transf.
transfer
transfer RNA
transferable vote
transferase
transference
transferor
transfiguration
transfigure
transfinite
transfinite number
transfix
transform
transformation
transformational grammar
transformer
transformism
transfuse
transfusion
transgress
transgression
tranship
transhumance
transience
transient
transilient
transilluminate
transistor
transistorize
transit
transit circle
transit instrument
transit theodolite
transition
transition element
transitive
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translatable
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translation
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translator
transliterate
translocate
translocation
translucent
translucid
translunar
transmarine
transmigrant
transmigrate
transmissible
transmission
transmission line
transmit
transmittal
transmittance
transmitter
transmogrify
transmontane
transmundane
transmutation
transmutes
transnational
transoceanic
transom
transonic
transonic barrier
transp.
transpacific
transpadane
transparency
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transpicuous
transpierce
transpire
transplant
transpolar
transponder
transpontine
transport
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transported
transporter bridge
transposal
transpose
transposing instrument
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transsonic
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tremor
tremulant	
tremulous
trenail	
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trench coat
trench fever	
trench foot
trench knife
trench mortar	
trench mouth
trench warfare
trenchant
trencher	
trencherman
trenching plane
trend	
trente et quarante
trepan
tre pang	
trephine	
trepidation	
treponema
trespass	
tress
tressure	
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trestle table
trestlework	
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tri-
	triable
	triacid
	triad

triadelphous
triage

trial

trial and error

trial balance

trial balloon

trial run
	triangle
	triangular

triangulate

triangulation
	triarchy
	triatomic

triaxial
	triazine
	tribade
	tribadism
	tribal
	tribalism
	tribasic

tribe
	tribesman
	triboelectricity
	triboluminescence
	triboluminescent
	tribrach
	tribromoethanol
	tribulation
	tribunal
	tribunate
	tribune
	tributary
	tribute
	trice
	triceps
	triceratops
	trichiasis
	trichina
	trichinize
trier
trierarch
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trifoliate
trifolium
triforium
triform
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trigeminal nerve
trigeminal neuralgia
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trigger-happy
triggerfish
triglyceride
triglyph
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trigonometry
trigonous
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trihydric
triodomethane
trike
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trilateration
trilby
trilemma
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trillium
trilobate
trilobite
trilogy
trim
trim size
trim tab
trimaran
trimer
trimerous
trimester
trimetallic
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trimetric projection
trimetrogon
trimly
trimmer
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trimolecular
trimorphism
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trinary
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trinitrocresol
trinitroglycerin
trinitrophenol
trinitrotoluene
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trinket
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trioxide
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triparted
tripartite
tripartition
tripe
tripedal
tripersonal
tripetalous
triphammer
triphenylmethane dye
triphibious
triphthong
triphylite
tripinnate
triumvir
triumvirate
triune
trivalent
trivet
trivia
trivial
triviality
trivium
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trocar
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trochal
trochanter
troche
trochee
trochelminth
trochilus
trochlear
trochlear nerve
trochophore
trod
trodden
trogloidyte
trogon
troika
troll
trolley
trolley bus
trolley car
trolley line
trollop
tolly
tromba marina
trombidiiasis
trombone
trommel
trompe
trompe l'oeil
trona
troop
troop carrier
trooper
troopship
troostite
tropacolin
trope
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trophoblast
trophoplasm
trophozoite
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tropical medicine
tropical year
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tropopause
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trotter
trotting race
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troubadour
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trouble spot
troubemaker
troublesome
troubious		
trough
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trooper
trousers
trousseau
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trouvaille
trouveur
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tube foot	
tubeless tire

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tubercle
tubercle bacillus

tubercular

tuberculate

tuberculin

tuberculin test

tuberculosis

tuberculous

tuberose

tuberosity

tuberous

tubing

tubular

tubulate

tubule

tubuliflorous

tubulure

tuchun
	tuck

tucker

tucker-bag

tucket

tufa

tuff

tuft

tufted

tufted duck

tufthunter
	
tug

tug of war

tugboat
	
tui

tuition

tulip

tulip tree

tulipwood

tulle

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tumble
tumble to
tumble-down
tumblebug
tumbledown
tumbler
tumbler gear
tumbleweed
tumbling
tumbrel	
tumefacient	
tumefaction	
tumefy

tumescent
tumid
tummy
tumor
tumpline
tumular
tumult
tumultuous
tumulus
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tuna
tunable
tundra
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tune in	
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vertical stabilizer
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virgin's-bower
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wapentake
wapiti
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war bonnet
war bride
war correspondent
war crime
war cry
war dance
war footing
war game
war of nerves
war paint
war vessel
war whoop
war-horse
warble
warble fly
warbler
ward
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warden
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wardrobe
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1.67 gom 0.3.3-1.el7

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Greg Roelofs hacked it into a (in his words) "slightly cheesy" 'pamquant' back in 1997 (see http://pobox.com/~newt/greg_rgba.html) and finally he ripped out the cheesy file-I/O parts and replaced them with nice PNG code in December 2000. The PNG reading and writing code is a merged and slightly simplified version of readpng, readpng2, and writepng from his book "PNG: The Definitive Guide."

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Apache XML Resolver 1.1
Dynalink 0.5

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============================================================================
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    IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code

==========================================================================
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<one line to give the program's name and a brief idea of what it does.>
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Gnomovision version 69, Copyright (C) year name of author
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.104 ucs-miscfixed-fonts 0.3-11.el7

1.104.1 Available under license:

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

#
# Name: ISO/IEC 8859-4:1998 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Ken Whistler <kenw@sybase.com>
#
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#
# General notes:
#
# This table contains the data the Unicode Consortium has on how
#
# Format: Three tab-separated columns
# Column #1 is the ISO/IEC 8859-4 code (in hex as 0xXX)
# Column #2 is the Unicode (in hex as 0xFFFF)
# Column #3 the Unicode name (follows a comment sign, '#')
#
# The entries are in ISO/IEC 8859-4 order.
#
# Version history
# 1.0 version updates 0.1 version by adding mappings for all
# control characters.
#
# Updated versions of this file may be found in:
# <ftp://ftp.unicode.org/Public/MAPPINGS/>
# Any comments or problems, contact <errata@unicode.org>
# Please note that <errata@unicode.org> is an archival address;
# notices will be checked, but do not expect an immediate response.
#
0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0A0x000A#LINE FEED
0x0B0x000B#VERTICAL TABULATION
0x0C0x000C#FORM FEED
0x0D0x000D#CARRIAGE RETURN
0x0E0x000E#SHIFT OUT
0x0F0x000F#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
0x150x0015#NEGATIVE ACKNOWLEDGE
0x160x0016#SYNCHRONOUS IDLE
0x170x0017#END OF TRANSMISSION BLOCK
0x180x0018#CANCEL
0x190x0019#END OF MEDIUM
0x1A0x001A#SUBSTITUTE
0x1B0x001B#ESCAPE
0x1C0x001C#FILE SEPARATOR
0x1D0x001D#GROUP SEPARATOR
0x1E0x001E#RECORD SEPARATOR
0x1F0x001F#UNIT SEPARATOR
0x200x0020#SPACE
0x210x0021#EXCLAMATION MARK
0x220x0022#QUOTATION MARK
0x230x0023#NUMBER SIGN
0x240x0024#DOLLAR SIGN
0x250x0025#PERCENT SIGN
0x260x0026#AMPERSAND
0x270x0027#APOSTROPHE
0x280x0028#LEFT PARENTHESIS
0x290x0029#RIGHT PARENTHESIS
0x2A0x002A#ASTERISK
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 17951

Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-4.TXT
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT "$Id: 7x14B.bdf,v 1.25 2003-07-26 14:55:51+01 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Bold-R-Normal--14-130-75-75-C-70-ISO10646-1
SIZE 7 75 75
FONTBOUNDINGBOX 7 14 0 -2
STARTPROPERTIES 22
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Bold"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 14
POINT_SIZE 130
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 70
CHARSET_REGISTRY "ISO10646"
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 17958
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 17985
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18011
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18012
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18111
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18275
1E
00
00
ENDCHAR
STARTCHAR uni1F3A
ENCODING 7994
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
DE
4C
8C
8C
4C
0C
0C
0C
0C
1E
00
00
ENDCHAR
STARTCHAR uni1F3B
ENCODING 7995
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
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DE
8C
4C
8C
4C
8C
4C
0C
0C
0C
0C
1E
00
00
ENDCHAR
STARTCHAR uni1F3C
ENCODING 7996

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18282
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18296
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  18303
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18316
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  18317
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18318
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18328
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18346
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18358
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18373
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18375
ENDCHAR
STARTCHAR arrowdown
ENCODING 8595
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
30
30
30
30
30
30
30
30
B4
FC
78
30
00
00
ENDCHAR
STARTCHAR minus
ENCODING 8722
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
00
00
00
00
00
FC
00
00
00
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR notequal
ENCODING 8800
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18382
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18391
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General notes:

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Format: Three tab-separated columns
  Column #1 is the ISO/IEC 8859-10 code (in hex as 0xXX)
  Column #2 is the Unicode (in hex as 0xXXXX)
  Column #3 the Unicode name (follows a comment sign, '#')

The entries are in ISO/IEC 8859-10 order.

Version history
  1.0 version new.
  1.1 corrected mistake in mapping of 0xA4

Updated versions of this file may be found in:
  <ftp://ftp.unicode.org/Public/MAPPINGS/>

Any comments or problems, contact <errata@unicode.org>
Please note that <errata@unicode.org> is an archival address; notices will be checked, but do not expect an immediate response.

<table>
<thead>
<tr>
<th>Code</th>
<th>Unicode</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x00</td>
<td>0x0000</td>
<td>#NULL</td>
</tr>
<tr>
<td>0x01</td>
<td>0x0001</td>
<td>#START OF HEADING</td>
</tr>
<tr>
<td>0x02</td>
<td>0x0002</td>
<td>#START OF TEXT</td>
</tr>
<tr>
<td>0x03</td>
<td>0x0003</td>
<td>#END OF TEXT</td>
</tr>
<tr>
<td>0x04</td>
<td>0x0004</td>
<td>#END OF TRANSMISSION</td>
</tr>
<tr>
<td>0x05</td>
<td>0x0005</td>
<td>#ENQUIRY</td>
</tr>
<tr>
<td>0x06</td>
<td>0x0006</td>
<td>#ACKNOWLEDGE</td>
</tr>
<tr>
<td>0x07</td>
<td>0x0007</td>
<td>#BELL</td>
</tr>
<tr>
<td>0x08</td>
<td>0x0008</td>
<td>#BACKSPACE</td>
</tr>
<tr>
<td>0x09</td>
<td>0x0009</td>
<td>#HORIZONTAL TABULATION</td>
</tr>
<tr>
<td>0x0a</td>
<td>0x000a</td>
<td>#LINE FEED</td>
</tr>
</tbody>
</table>
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  18400

0xFB#LATIN SMALL LETTER U WITH CIRCUMFLEX
0xFC#LATIN SMALL LETTER U WITH DIAERESIS
0xFD#LATIN SMALL LETTER Y WITH ACUTE
0xFE#LATIN SMALL LETTER THORN (Icelandic)
0xFF#LATIN SMALL LETTER KRA

Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-10.TXT

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

STARTFONT 2.1
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
FONT -Misc-Fixed-Medium-R-Normal--13-120-75-75-C-70-ISO10646-1
SIZE 13 78 78
FONTBOUNDINGBOX 7 13 0 -2
STARTPROPERTIES 23
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 13
POINT_SIZE 120
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 70
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
COPYRIGHT "Public domain font. Share and enjoy."
DESTINATION 1
DEFAULT_CHAR 0
FONT_DESCENT 2
FONT_ASCENT 11
CAP_HEIGHT 9
X_HEIGHT 6
_GBDFED_INFO "Edited with gbdfed 1.3."
ENDPROPERTIES
CHARS 3226
STARTCHAR char0
ENCODING 0
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18406
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18447

B4
AC
84
78
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ENDCHAR
STARTCHAR macron
ENCODING 175
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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7C
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00
00
00
00
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00
ENDCHAR
STARTCHAR degree
ENCODING 176
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR plusminus
<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
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<td>50</td>
<td>20</td>
<td>00</td>
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<td>00</td>
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</tbody>
</table>

**ENDCHAR**

STARTCHAR acute

ENCODING 180

SWIDTH 497 0

DWIDTH 7 0

BBX 7 13 0 -2

BITMAP

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ENDCHAR

STARTCHAR mu

ENCODING 181

SWIDTH 497 0

DWIDTH 7 0

BBX 7 13 0 -2

BITMAP

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CC

B4
ENCODING 213
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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84
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ENDCHAR
STARTCHAR Ondersis
ENCODING 214
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
48
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ENDCHAR
STARTCHAR multiply
ENCODING 215
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18480
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BITMAP
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ENDCHAR
STARTCHAR eogonek
ENCODING 281
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR Ecaron
ENCODING 282
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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BITMAP
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STARTCHAR afii10088
ENCODING 1094
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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FC
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ENDCHAR
STARTCHAR afii10089
ENCODING 1095
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18772
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 18782
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18898
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40
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FC
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ENDCHAR
STARTCHAR uni1E95
ENCODING 7829
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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FC
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78
ENDCHAR
STARTCHAR uni1E96
ENCODING 7830
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
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80
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ENDCHAR
STARTCHAR uni1E97
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

19050
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19236
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19246
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19250
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19277
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
ENCODE 8648
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
44
EE
44
44
44
44
44
44
00
00
ENDCHAR
STARTCHAR uni21C9
ENCODE 8649
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
10
08
FC
08
10
08
FC
08
10
00
00
ENDCHAR
STARTCHAR uni21CA
ENCODE 8650
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
44
44
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19327
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19331
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

2E
20
20
20
A0
40
ENDCHAR
STARTCHAR uni2232
ENCODING 8754
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
10
28
20
20
74
AC
BC
A8
70
20
20
A0
40
ENDCHAR
STARTCHAR uni2233
ENCODING 8755
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
10
28
20
20
70
A8
BC
AC
74
20
20
A0
40
ENDCHAR
STARTCHAR therefore
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19335
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19364
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19377
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19390
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19407
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
19412
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19425
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19451
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19452
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0

ENDCHAR
STARTCHAR uni2511
ENCODING 9489
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
00
00
00
00
F0
F0
10
10
10
10
10
10
10
10

ENDCHAR
STARTCHAR uni2512
ENCODING 9490
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
00
00
00
00
00
00
F8
18
18
18
18
18
18
18

ENDCHAR
STARTCHAR uni2513
ENCODING 9491
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19482
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 19495
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19505
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19530
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19544
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19553
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
19562
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19593
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19600
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19622
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19630
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19637
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
ENCODING 10442
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
0C
0C
00
60
60
00
00
00
00
6C
6C
00
ENCODING 10443
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
6C
6C
00
60
60
00
00
00
00
6C
6C
00
ENCODING 10444
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
0C
0C
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19707
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT "Std: 9x18B.bdf,v 1.14 2004-11-28 19:47:42+00 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Bold-R-Normal--18-120-100-100-C-90-ISO10646-1
SIZE 12 100 100
FONTBoundingBox 9 18 0 -4
STARTPROPERTIES 22
FONTNAME_REGISTRATION ""
FOUNDARY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Bold"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 18
POINT_SIZE 120
RESOLUTION_X 100
RESOLUTION_Y 100
SPACING "C"
AVERAGE_WIDTH 90
CHARSET_REGISTRATION "ISO10646"
CHARSET_ENCODING "1"
DEFAULT_CHAR 0
FONT_DESCENT 4
FONT_ASCENT 14
COPYRIGHT "Public domain font. Share and enjoy."
_XMBDFED_INFO "Edited with xmbfed 4.5."
CAP_HEIGHT 10
X_HEIGHT 7
ENDPROPERTIES
CHARS 762
STARTCHAR char0
ENCODING 0
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19755

6300
6300
6300
6300
3600
1C00
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR one
ENCODING 49
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
1800
3800
7800
D800
1800
1800
1800
1800
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1800
FF00
0000
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0000
0000
ENDCHAR
STARTCHAR two
ENCODING 50
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
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1C00
3600
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19762
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19797
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

ENDCHAR
STARTCHAR Ccedilla
ENCODING 199
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 4
BITMAP
0000
0000
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0000
1E00
3300
6000
6000
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6000
3300
1E00
0C00
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3600
1C00
ENDCHAR
STARTCHAR Egrave
ENCODING 200
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 4
BITMAP
3000
1800
0C00
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7F00
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7C00
Open Source Used In Field Network Director for Virtual Machine Installations 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19819
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19829
ENDCHAR
STARTCHAR divide
ENCODING 247
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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0000
ENDCHAR
STARTCHAR oslash
ENCODING 248
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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1C00
1C00
3600
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1800
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ENDCHAR
STARTCHAR aogonek
ENCODING 261
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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ENDCHAR
STARTCHAR Cacute
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19868
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19872
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19889
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19903
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19919
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 1993
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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ENDCHAR
STARTCHAR Iota
ENCODING 921
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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7E00
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ENDCHAR
STARTCHAR Kappa
ENCODE 922
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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6300
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6C00
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6300
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ENDCHAR
STARTCHAR Lambda
ENCODE 923
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19961
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19976
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19980
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  19981
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 19988
6300
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ENDCHAR
STARTCHAR afii10033
ENCODING 1055
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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ENDCHAR
STARTCHAR afii10034
ENCODING 1056
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

20000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  2006
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20025
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  2003
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20034
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20051
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 2009
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 2016
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  2018
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  2019
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  2019
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 2020
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 2022
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20230
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 2023
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20268
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20275
FC
84
78
00
00
ENDCHAR
STARTCHAR uni02C4
ENCODING 708
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
10
28
44
00
00
00
00
00
00
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00
00
00
00
00
00
ENDCHAR
STARTCHAR uni02C5
ENCODING 709
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
44
28
10
00
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00
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00
00
00
00
00
ENDCHAR
STARTCHAR circumflex
ENCODING 710
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20299
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20302
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20306
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20307
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20322
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20341
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20358
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20371
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20416
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20418
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20421
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20428
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20431
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20446
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20455
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20468
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20473
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqliws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/7x13O.bdf
No license file was found, but licenses were detected in source scan.

#
#Name: JIS X 0201 (1976) to Unicode 1.1 Table
#Unicode version: 1.1
# Table version: 0.9
# Table format: Format A
# Date: 8 March 1994
# Authors: Glenn Adams <glenn@metis.com>
# John H. Jenkins <John_Jenkins@taligent.com>
#
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#
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#
# General notes:
#
# This table contains the data the Unicode Consortium has on how
# single-byte JIS X 0201 characters map into Unicode 1.1
#
# Format: Three tab-separated columns
# Column #1 is the shift JIS code (in hex as 0XX)
# Column #2 is the Unicode (in hex as 0XXXX)
# Column #3 the Unicode (ISO 10646) name (follows a comment sign)
#
# The entries are in JIS order
#
# These mappings are provisional, pending definition of
# official mappings by Japanese standards bodies.
#
# Any comments or problems, contact <John_Jenkins@taligent.com>
#
<table>
<thead>
<tr>
<th>Code</th>
<th>Unicode</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x20</td>
<td>0x0020</td>
<td># SPACE</td>
</tr>
<tr>
<td>0x21</td>
<td>0x0021</td>
<td># EXCLAMATION MARK</td>
</tr>
<tr>
<td>0x22</td>
<td>0x0022</td>
<td># QUOTATION MARK</td>
</tr>
<tr>
<td>0x23</td>
<td>0x0023</td>
<td># NUMBER SIGN</td>
</tr>
<tr>
<td>0x24</td>
<td>0x0024</td>
<td># DOLLAR SIGN</td>
</tr>
<tr>
<td>0x25</td>
<td>0x0025</td>
<td># PERCENT SIGN</td>
</tr>
<tr>
<td>0x26</td>
<td>0x0026</td>
<td># AMPERSAND</td>
</tr>
</tbody>
</table>
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

20493
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT "$Id: 9x18.bdf,v 1.53 2009-04-06 18:50:15+01 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Medium-R-Normal--18-120-100-100-C-90-ISO10646-1
SIZE 12 100 100
FONTBOUNDINGBOX 9 18 0 -4
STARTPROPERTIES 22
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 18
POINT_SIZE 120
RESOLUTION_X 100
RESOLUTION_Y 100
SPACING "C"
AVERAGE_WIDTH 90
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
DEFAULT_CHAR 0
FONT_DESCENT 4
FONT_ASCENT 14
COPYRIGHT "Public domain font. Share and enjoy."
CAP_HEIGHT 10
X_HEIGHT 7
_GBDFED_INFO "Edited with gbdfed 1.3."
ENDPROPERTIES
CHARS 4766
STARTCHAR char0
ENCODING 0
SWIDTH 540 0
DWIDTH 9 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20504

2200
4100
4100
4100
4100
4100
4100
4100
2200
1C00
0000
0000
0000
0000
ENDCHAR
STARTCHAR one
ENCODING 49
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0800
1800
2800
4800
0800
0800
0800
0800
0800
7F00
0000
0000
0000
0000
ENDCHAR
STARTCHAR two
ENCODING 50
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20511
2300
1D00
0100
0100
0100
0000
ENDCHAR
STARTCHAR r
ENCODING 114
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
0000
4E00
3100
2100
2000
2000
2000
2000
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR s
ENCODING 115
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
0000
3E00
4100
4000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20569
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20579

endchar
startchar acircumflex
encoding 226
swidth 540 0
dwidth 9 0
bbx 9 18 0 -4
bitmap
0000
0000
0000
0800
1400
2200
0000
3e00
0100
0100
3f00
4100
4300
3d00
0000
0000
0000
0000
endchar
startchar atilde
encoding 227
swidth 540 0
dwidth 9 0
bbx 9 18 0 -4
bitmap
0000
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

20581
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20600
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20604
BITMAP
0000
0000
0000
0000
0800
0800
0000
3E00
4100
4100
7F00
4000
4100
3E00
0000
0000
0000
0000
ENDCHAR
STARTCHAR Eogonek
ENCODING 280
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
7F00
4000
4000
4000
7C00
4000
4000
4000
4000
7F00
0800
1000
0E00
0000
ENDCHAR
STARTCHAR eogonek
ENCODING 281
SWIDTH 540 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20610
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20648
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20667
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20696
4400 4700 0000 0000 0000 0000
ENDCHAR
STARTCHAR uni01E3
ENCODING 483
SWIDTH 540 0 DWIDTH 9 0 BBX 9 18 0 -4
BITMAP
0000 0000 0000 0000 0000 3F00 0000 3600 0900 0900 3F00 4800 4900 3600 0000 0000 0000 0000
ENDCHAR
STARTCHAR uni01E4
ENCODING 484
SWIDTH 540 0 DWIDTH 9 0 BBX 9 18 0 -4
BITMAP
0000 0000 0000 0000 0000 1C00 2200 4100 4000 4000 4700
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20731
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20748
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

ENDCHAR
STARTCHAR uni02A9
ENCODING 681
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
1C00
2200
2000
2A00
2D00
7900
2900
2900
2900
2900
0100
0600
0000
0000
ENDCHAR
STARTCHAR uni02AA
ENCODING 682
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
6000
2000
2000
2E00
3100
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20889
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

ENDCHAR
STARTCHAR Etatonos
ENCODING 905
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0400
0800
1000
0000
4100
4100
4100
4100
7F00
4100
4100
4100
4100
4100
0000
0000
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0000
ENDCHAR
STARTCHAR Iotatonos
ENCODING 906
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0400
0800
1000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  20907
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 20908
4100
4100
4100
4100
0100
0100
0100
0000
ENDCHAR
STARTCHAR \theta
ENCODING 952
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
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0000
3C00
4200
4200
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4200
7E00
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4200
4200
3C00
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ENDCHAR
STARTCHAR \iota
ENCODING 953
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

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<td>BITMAP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0000</td>
<td>0000</td>
<td>0000</td>
<td>0000</td>
<td>0800</td>
<td>0800</td>
<td>0800</td>
</tr>
</tbody>
</table>
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22172
0800
7F00
1000
0000
0000
0000
ENDCHAR
STARTCHAR uni2269
ENCODING 8809
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
6000
1C00
0300
1C00
6000
0400
7F00
0800
7F00
1000
0000
0000
0000
ENDCHAR
STARTCHAR uni226A
ENCODING 8810
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
0900
1200
2400
4800
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22222
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22223
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22251
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22254
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22267
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22272
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22274
0800
0A00
0400
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni2374
ENCODING 9076
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
0000
3E00
4100
4100
4100
4100
4100
6100
5E00
4000
4000
4000
4000
0000
ENDCHAR
STARTCHAR uni2375
ENCODING 9077
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
0000
2200
4100
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22351
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22362
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22363
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22387
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

22389
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22397
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22408
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22412
STARTCHAR uni248B
ENCODING 9355
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
0800
1800
2800
3C00
0800
0B00
0B00
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni248C
ENCODING 9356
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
F800
8000
8000
F000
0800
0B00
F300
0000
0000
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22428
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22435
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22437
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22443
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22447
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22466
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22493
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22506
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22537
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22558
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22562
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22584
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22593
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22606
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22618
B100
B900
B900
A200
3C00
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni2707
ENCODING 9991
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
3E00
4100
9C80
8880
8080
A280
B680
4100
3E00
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni2708
ENCODING 9992
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
1000
1000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22706
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22713
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22748
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22761
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22786
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22802
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22809
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22823
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22825
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22855
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22863
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22866
ENCODE 64320
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
3800
1C00
0400
3400
0400
1C00
3C00
0000
0000
0000
0000

ENDCHAR
STARTCHAR uniFB41
ENCODE 64321
SWIDTH 540 0
DWIDTH 9 0
BBX 9 18 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
8000
FE00
7F00
4100
5900
4100
7E00
3C00
0000
0000
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22966
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22967
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  22970
7700
7700
7F00
7700
3E00
0000
0000
0000
0000
ENDCHAR
ENDFONT

Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqlIws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/9x18.bdf
No license file was found, but licenses were detected in source scan.

#
# Name: ISO/IEC 8859-1:1998 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Ken Whistler <kenw@sybase.com>
#
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#
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# attached.
#
# General notes:
#
# This table contains the data the Unicode Consortium has on how
# ISO/IEC 8859-1:1998 characters map into Unicode.
#
# Format: Three tab-separated columns
# Column #1 is the ISO/IEC 8859-1 code (in hex as 0XX)
Column #2 is the Unicode (in hex as 0xXXXX)
Column #3 the Unicode name (follows a comment sign, '#')

The entries are in ISO/IEC 8859-1 order.

Version history
1.0 version updates 0.1 version by adding mappings for all control characters.

Updated versions of this file may be found in:
<ftp://ftp.unicode.org/Public/MAPPINGS/>

Any comments or problems, contact <errata@unicode.org>
Please note that <errata@unicode.org> is an archival address; notices will be checked, but do not expect an immediate response.

0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0A0x000A#LINE FEED
0x0B0x000B#VERTICAL TABULATION
0x0C0x000C#FORM FEED
0x0D0x000D#CARRIAGE RETURN
0x0E0x000E#SHIFT OUT
0x0F0x000F#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
0x150x0015#NEGATIVE ACKNOWLEDGE
0x160x0016#SYNCHRONOUS IDLE
0x170x0017#END OF TRANSMISSION BLOCK
0x180x0018#CANCEL
0x190x0019#END OF MEDIUM
0x1A0x001A#SUBSTITUTE
0x1B0x001B#ESCAPE
0x1C0x001C#FILE SEPARATOR
0x1D0x001D#GROUP SEPARATOR
0x1E0x001E#RECORD SEPARATOR
0x1F0x001F#UNIT SEPARATOR
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-1.TXT
No license file was found, but licenses were detected in source scan.

#
# Name:            ISO/IEC 8859-8:1999 to Unicode
# Unicode version: 3.0
# Table version:   1.1
# Table format: Format A
# Date:           2000-Jan-03
# Authors:        Ken Whistler <kenw@sybase.com>
#
# Copyright (c) 1991-1999 Unicode, Inc. All Rights reserved.
#
This file contains the data the Unicode Consortium has on how ISO/IEC 8859-8:1999 characters map into Unicode.

Format: Three tab-separated columns
- Column #1 is the ISO/IEC 8859-8 code (in hex as 0xXX)
- Column #2 is the Unicode (in hex as 0xXXXX)
- Column #3 the Unicode name (follows a comment sign, '#')

The entries are in ISO/IEC 8859-8 order.

Version history
- 1.0 version updates 0.1 version by adding mappings for all control characters.
- 1.1 version updates to the published 8859-8:1999, correcting the mapping of 0xAF and adding mappings for LRM and RLM.

Updated versions of this file may be found in:
- ftp://ftp.unicode.org/Public/MAPPINGS/

Any comments or problems, contact <errata@unicode.org>
Please note that <errata@unicode.org> is an archival address; notices will be checked, but do not expect an immediate response.

0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-8.TXT
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT "$Id: 5x7.bdf,v 1.38 2006-01-05 20:03:17+00 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Medium-R-Normal--7-70-75-75-C-50-ISO10646-1
SIZE 7 75 75
FONTBOUNDINGBOX 5 7 0 -1
STARTPROPERTIES 23
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 7
POINT_SIZE 70
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 50
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
FONT_ASCENT 6
20
00
ENDCHAR
STARTCHAR quotedbl
ENCODING 34
SWIDTH 685 0
DWIDTH 5 0
BBX 570 -1
BITMAP
50
50
50
00
00
00
00
ENDCHAR
STARTCHAR numbersign
ENCODING 35
SWIDTH 685 0
DWIDTH 5 0
BBX 570 -1
BITMAP
00
50
F8
50
F8
50
00
ENDCHAR
STARTCHAR dollar
ENCODING 36
SWIDTH 685 0
DWIDTH 5 0
BBX 570 -1
BITMAP
00
70
A0
70
28
70
00
ENDCHAR
STARTCHAR percent
ENCODING 37
SWIDTH 685 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 22999
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23005
BITMAP
20
50
40
E0
40
40
00
ENDCHAR
STARTCHAR g
ENCODING 103
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
70
90
60
80
70
ENDCHAR
STARTCHAR h
ENCODING 104
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
80
80
E0
90
90
90
00
ENDCHAR
STARTCHAR i
ENCODING 105
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
20
00
60
20
20
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23018
70
20
ENDCHAR
STARTCHAR sterling
ENCODING 163
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
30
40
E0
40
B0
00
ENDCHAR
STARTCHAR currency
ENCODING 164
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
88
70
50
70
88
00
ENDCHAR
STARTCHAR yen
ENCODING 165
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
50
50
20
70
20
20
00
ENDCHAR
STARTCHAR brokenbar
ENCODING 166
SWIDTH 685 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23021
ENCODING 173
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
00
70
00
00
00
ENDCHAR
STARTCHAR registered
ENCODING 174
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
70
88
E8
C8
C8
88
70
ENDCHAR
STARTCHAR macron
ENCODING 175
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
F0
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR degree
ENCODING 176
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
20
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23029
BITMAP
50
00
90
90
50
20
40
ENDCHAR
STARTCHAR Amacron
ENCODING 256
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
60
90
90
F0
90
90
00
ENDCHAR
STARTCHAR amacron
ENCODING 257
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
70
00
70
90
B0
50
00
ENDCHAR
STARTCHAR Abreve
ENCODING 258
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
60
90
90
F0
90
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23051
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23063
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23067
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

23068
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23098
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23101
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23103
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23117
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23119
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23125
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23129
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23138
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23143
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23144
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23152
40
E8
50
50
38
10
ENDCHAR
STARTCHAR uni02B6
ENCODING 694
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
A0
C0
A0
C0
00
00
00
00
ENDCHAR
STARTCHAR uni02B8
ENCODING 696
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
40
80
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni02B9
ENCODING 697
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
50
A0
00
00
00
00
00
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23160
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23161
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23180
90
90
E0
80
ENDCHAR
gamma
ENCODING 947
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
50
50
20
20
20
ENDCHAR
delta
ENCODING 948
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
70
80
60
90
90
60
00
ENDCHAR
epsilon
ENCODING 949
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
70
20
40
30
00
ENDCHAR
zeta
ENCODING 950
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
F0
40
80
80
70
10
ENDCHAR
STARTCHAR eta
ENCODING 951
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
E0
90
90
90
10
ENDCHAR
STARTCHAR theta
ENCODING 952
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
20
50
70
50
50
20
00
ENDCHAR
STARTCHAR iota
ENCODING 953
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23187
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23210
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23223
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23226
70
00
ENDCHAR
STARTCHAR uni04E3
ENCODING 1251
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
70
00
60
20
20
70
00
ENDCHAR
STARTCHAR uni04E8
ENCODING 1256
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
60
90
F0
90
90
60
00
ENDCHAR
STARTCHAR uni04E9
ENCODING 1257
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
60
F0
90
60
00
ENDCHAR
STARTCHAR uni04EE
ENCODING 1262
SWIDTH 685 0

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23229
BITMAP
E0
90
E0
90
90
E0
00
ENDCHAR
STARTCHAR uni1E03
ENCODING 7683
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
20
80
80
E0
90
E0
00
ENDCHAR
STARTCHAR uni1E0A
ENCODING 7690
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
E0
90
90
90
90
E0
00
ENDCHAR
STARTCHAR uni1E0B
ENCODING 7691
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
40
10
10
70
90
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 23250
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23252
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23253
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 23254
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23255
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23257
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23306
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23308
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23311
BITMAP
D0
20
00
00
00
00
00
ENDCHAR
STARTCHAR uni1FEE
ENCODING 8174
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
B0
40
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni1FEE
ENCODING 8175
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
40
20
00
00
00
00
00
ENDCHAR
STARTCHAR uni1FF2
ENCODING 8178
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
40
20
90
90
F0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

23327
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23332
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 23341
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 23345
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23352
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23362
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23371
congruent \approxeq \uni2249 \uni2259

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23374
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23380
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23400
ENCODING 9546
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
30
30
38
F8
30
30
30
30
ENDCHAR
STARTCHAR uni254B
ENCODING 9547
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
30
30
30
F8
F8
30
30
30
30
ENDCHAR
STARTCHAR uni254C
ENCODING 9548
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
00
00
00
D0
00
00
00
00
ENDCHAR
STARTCHAR uni254D
ENCODING 9549
SWIDTH 685 0
DWIDTH 5 0
BBX 5 7 0 -1
BITMAP
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23418
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23454
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23459
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23467
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23476
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23485
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23495
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23499
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23500
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23507
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23509
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23516
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23522
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

BITMAP
50
A8
E8
D8
F8
D8
70
ENDCHAR
ENDFONT

Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/5x7.bdf
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT $Id: 5x8.bdf,v 1.32 2006-01-05 20:03:17+00 mgk25 Rel $
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
FONT -Misc-Fixed-Medium-R-Normal--8-80-75-75-C-50-ISO10646-1
SIZE 11 75 75
FONTBOUNDINGBOX 5 8 0 -1
STARTPROPERTIES 22
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 8
POINT_SIZE 80
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 50
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
FONT_DESCENT 1
FONT_ASCENT 7
COPYRIGHT "Public domain font.  Share and enjoy."
DEFAULT_CHAR 0
_XMBDFED_INFO "Edited with xmbfed 4.5."
CAP_HEIGHT 6
X_HEIGHT 4
ENDPROPERTIES
CHARS 1426
STARTCHAR char0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
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DWIDTH 5 0
BBX 5 8 0 -1
BITMAP
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F0
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STARTCHAR grave
ENCODE
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SWIDTH 436 0
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STARTCHAR a
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ENCODE
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DWIDTH 5 0

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23550
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23775
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

existential

uni\textsuperscript{2204}

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23972
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* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiw5/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/5x8.bdf
No license file was found, but licenses were detected in source scan.

#
# Name: ISO/IEC 8859-13:1998 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Ken Whistler <kenw@sybase.com>
#
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# #
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#
#General notes:
#
#This table contains the data the Unicode Consortium has on how
#
#Format: Three tab-separated columns
#Column #1 is the ISO/IEC 8859-13 code (in hex as 0xXX)
#Column #2 is the Unicode (in hex as 0xXXXX)
#Column #3 the Unicode name (follows a comment sign, '#')
#
#The entries are in ISO/IEC 8859-13 order.
#
#Updated versions of this file may be found in:
#<ftp://ftp.unicode.org/Public/MAPPINGS/>/
#
#Any comments or problems, contact <errata@unicode.org>
#Please note that <errata@unicode.org> is an archival address;
#notices will be checked, but do not expect an immediate response.
#
0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0a0x000a#LINE FEED
0x0b0x000b#VERTICAL TABULATION
0x0c0x000c#FORM FEED
0x0d0x000d#CARRIAGE RETURN
0x0e0x000e#SHIFT OUT
0x0f0x000f#SHIFT IN
0x100x0010#DATA LINK ESCAPE
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23978
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXXHIE/MAPPINGS/8859-13.TXT
No license file was found, but licenses were detected in source scan.

#
# Name: ISO 8859-5:1999 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Ken Whistler <kenw@sybase.com>
#
# Copyright (c) 1991-1999 Unicode, Inc. All Rights reserved.
#
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# agrees to determine applicability of information provided. If this
# file has been provided on optical media by Unicode, Inc., the sole
# remedy for any claim will be exchange of defective media within 90
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#
# Unicode, Inc. hereby grants the right to freely use the information
# supplied in this file in the creation of products supporting the
# Unicode Standard, and to make copies of this file in any form for
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# attached.
#
# General notes:
#
# This table contains the data the Unicode Consortium has on how
# ISO/IEC 8859-5:1999 characters map into Unicode.
#
# Format: Three tab-separated columns
# Column #1 is the ISO/IEC 8859-5 code (in hex as 0xXX)
# Column #2 is the Unicode (in hex as 0xXXXX)
# Column #3 the Unicode name (follows a comment sign, '#')
#
# The entries are in ISO/IEC 8859-5 order.
#
# Version history
# 1.0 version updates 0.1 version by adding mappings for all
# control characters.
#
# Updated versions of this file may be found in:
# <ftp://ftp.unicode.org/Public/MAPPINGS/>
Any comments or problems, contact <errata@unicode.org>

Please note that <errata@unicode.org> is an archival address;
notices will be checked, but do not expect an immediate response.

# 0x00000000#NULL
0x01000001#START OF HEADING
0x02000002#START OF TEXT
0x03000003#END OF TEXT
0x04000004#END OF TRANSMISSION
0x05000005#ENQUIRY
0x06000006#ACKNOWLEDGE
0x07000007#BELL
0x08000008#BACKSPACE
0x09000009#HORIZONTAL TABULATION
0x0A00000A#LINE FEED
0x0B00000B#VERTICAL TABULATION
0x0C00000C#FORM FEED
0x0D00000D#CARRIAGE RETURN
0x0E00000E#SHIFT OUT
0x0F00000F#SHIFT IN
0x10000010#DATA LINK ESCAPE
0x11000011#DEVICE CONTROL ONE
0x12000012#DEVICE CONTROL TWO
0x13000013#DEVICE CONTROL THREE
0x14000014#DEVICE CONTROL FOUR
0x15000015#NEGATIVE ACKNOWLEDGE
0x16000016#SYNCHRONOUS IDLE
0x17000017#END OF TRANSMISSION BLOCK
0x18000018#CANCEL
0x19000019#END OF MEDIUM
0x1A00001A#SUBSTITUTE
0x1B00001B#ESCAPE
0x1C00001C#FILE SEPARATOR
0x1D00001D#GROUP SEPARATOR
0x1E00001E#RECORD SEPARATOR
0x1F00001F#UNIT SEPARATOR
0x20000020#SPACE
0x21000021#EXCLAMATION MARK
0x22000022#QUOTATION MARK
0x23000023#NUMBER SIGN
0x24000024#DOLLAR SIGN
0x25000025#PERCENT SIGN
0x26000026#AMPERSAND
0x27000027#APSTROPHE
0x28000028#LEFT PARENTHESIS
0x29000029#RIGHT PARENTHESIS
0x2A00002A#ASTERISK
0x2B00002B#PLUS SIGN
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-5.TXT
No license file was found, but licenses were detected in source scan.

#
# Name:             ISO/IEC 8859-11:2001 to Unicode
# Unicode version:  3.2
# Table version:    1.0
# Table format:     Format A
# Date:             2002 October 7
# Authors:          Ken Whistler <kenw@sybase.com>
#
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#
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# file has been provided on optical media by Unicode, Inc., the sole
# remedy for any claim will be exchange of defective media within 90
# days of receipt.
#
# Unicode, Inc. hereby grants the right to freely use the information
# supplied in this file in the creation of products supporting the
# Unicode Standard, and to make copies of this file in any form for
# internal or external distribution as long as this notice remains
General notes:

This table contains the data the Unicode Consortium has on how ISO/IEC 8859-11:2001 characters map into Unicode.

ISO/IEC 8859-11:2001 is equivalent to TIS 620-2533 (1990) with the addition of 0xA0 NO-BREAK SPACE.

Format: Three tab-separated columns

Column #1 is the ISO/IEC 8859-11 code (in hex as 0xXX)
Column #2 is the Unicode (in hex as 0xXXXX)
Column #3 the Unicode name (follows a comment sign, '#' )

The entries are in ISO/IEC 8859-11 order.

Version history:

Updated versions of this file may be found in:

<ftp://ftp.unicode.org/Public/MAPPINGS/>

For any comments or problems, please use the Unicode web contact form at:

http://www.unicode.org/unicode/reporting.html

0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0A0x000A#LINE FEED
0x0B0x000B#VERTICAL TABULATION
0x0C0x000C#FORM FEED
0x0D0x000D#CARRIAGE RETURN
0x0E0x000E#SHIFT OUT
0x0F0x000F#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23992
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 23993
0xD5x0xE35#THAI CHARACTER SARA II
0xD6x0xE36#THAI CHARACTER SARA UE
0xD7x0xE37#THAI CHARACTER SARA UEE
0xD8x0xE38#THAI CHARACTER SARA U
0xD9x0xE39#THAI CHARACTER SARA UU
0xDA0x0xE3A#THAI CHARACTER PHINTHU
0xDF0x0xE3F#THAI CURRENCY SYMBOL BAHT
0xE00x0xE40#THAI CHARACTER SARA E
0xE10x0xE41#THAI CHARACTER SARA AE
0xE20x0xE42#THAI CHARACTER SARA O
0xE30x0xE43#THAI CHARACTER SARA AI MAIMUAN
0xE40x0xE44#THAI CHARACTER SARA AI MAIMALAI
0xE50x0xE45#THAI CHARACTER LAKKHANGYAO
0xE60x0xE46#THAI CHARACTER MAIYAMOK
0xE70x0xE47#THAI CHARACTER MAITAIKHU
0xE80x0xE48#THAI CHARACTER MAI EK
0xE90x0xE49#THAI CHARACTER MAI THO
0xEA0x0xE4A#THAI CHARACTER MAI TRI
0xEB0x0xE4B#THAI CHARACTER MAI CHATTAWA
0xEC0x0xE4C#THAI CHARACTER THANTHAKHAT
0xED0x0xE4D#THAI CHARACTER NIKHAHIT
0xEE0x0xE4E#THAI CHARACTER YAMAKKAN
0xEF0x0xE4F#THAI CHARACTER FONGMAN
0xF00x0xE50#THAI DIGIT ZERO
0xF10x0xE51#THAI DIGIT ONE
0xF20x0xE52#THAI DIGIT TWO
0xF30x0xE53#THAI DIGIT THREE
0xF40x0xE54#THAI DIGIT FOUR
0xF50x0xE55#THAI DIGIT FIVE
0xF60x0xE56#THAI DIGIT SIX
0xF70x0xE57#THAI DIGIT SEVEN
0xF80x0xE58#THAI DIGIT EIGHT
0xF90x0xE59#THAI DIGIT NINE
0xFA0x0xE5A#THAI CHARACTER ANGKHANKHU
0xFB0x0xE5B#THAI CHARACTER KHOMUT

Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRgIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-11.TXT
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT $Id: 6x12.bdf,v 1.32 2008-06-26 12:50:43+01 mgk25 Rel $
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
FONT -Misc-Fixed-Medium-R-SemiCondensed--12-110-75-75-C-60-ISO10646-1
SIZE 12 75 75
FONTBOUNDINGBOX 6 12 0 -2
STARTPROPERTIES 22
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23996
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24010
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 24037
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24038
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24039
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24064
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24068
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 24074
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24077
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24097
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24100
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24103
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24111
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24119
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24124
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24139
70
00
00
ENDCHAR
STARTCHAR uni0224
ENCODING 548
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
F8
08
10
20
40
80
F8
08
30
ENDCHAR
STARTCHAR uni0225
ENCODING 549
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
00
00
F8
10
20
40
F8
08
30
ENDCHAR
STARTCHAR uni0226
ENCODING 550
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24212
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24221
A0
40
00
ENDCHAR
STARTCHAR uni0284
ENCODING 644
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
10
28
20
20
70
20
A0
40
00
ENDCHAR
STARTCHAR uni0285
ENCODING 645
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
40
A0
20
20
28
10
00
00
ENDCHAR
STARTCHAR uni0286
ENCODING 646
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24230
ENDCHAR
STARTCHAR uni02C3
ENCODING 707
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
40
20
10
20
40
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni02C4
ENCODING 708
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
20
50
50
00
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni02C5
ENCODING 709
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
50
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24263
30
10
ENDCHAR
STARTCHAR uni031A
ENCODING 794
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
00
00
00
00
20
30
20
ENDCHAR
STARTCHAR uni031B
ENCODING 795
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
04
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24297
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24310
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24312
BBX 6 12 0 -2
BITMAP
50
60
40
40
00
00
00
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni036D
ENCODING 877
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
20
70
20
30
00
00
00
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR uni036E
ENCODING 878
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
50
50
20
20
00
00
00
00
00
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24327
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24341
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24348
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

24355
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24366
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24371
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24381
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24393
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24438
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24441
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24485
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24506
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24521
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24523
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24567
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24573
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0  24575
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24630
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24648
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
ENCODED 8106
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
D0
48
00
70
88
88
88
88
88
50
D8
20
10
ENDCHAR
STARTCHAR uni1FAB
ENCODING 8107
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
D0
88
00
70
88
88
88
88
88
50
D8
20
10
ENDCHAR
STARTCHAR uni1FAC
ENCODING 8108
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
C8
50
00
70
88
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24700
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24708
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24726
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24735
20
50
50
ENDCHAR
STARTCHAR uni2042
ENCODING 8258
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
20
70
20
50
F8
50
00
00
00
ENDCHAR
STARTCHAR uni2043
ENCODING 8259
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
00
00
00
70
70
70
00
00
00
00
ENDCHAR
STARTCHAR fraction
ENCODING 8260
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24765
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24793
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24798
STARTCHAR estimated
ENCODING 8494
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
D8
F0
C0
70
00
00
ENDCHAR
STARTCHAR uni212F
ENCODING 8495
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
00
38
48
70
80
60
00
00
ENDCHAR
STARTCHAR uni2130
ENCODING 8496
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
70
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24805
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24814
ENDCHAR
STARTCHAR threeeighths
ENCODING 8540
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
C0
28
48
30
D0
28
54
48
94
88
00
00
ENDCHAR
STARTCHAR fiveeighths
ENCODING 8541
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
C0
88
48
90
10
28
54
48
94
88
00
00
ENDCHAR
STARTCHAR seveneighths
ENCODING 8542
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
E0
28
48
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24850
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24861
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24878
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24888
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24892
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24896
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24897
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24899
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24911
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24917
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24974
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  24984
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 24991
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25014
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25033
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25053
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25060
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25067
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25078
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25081
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25087
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25102
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25122
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25125
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

25128
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25135
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25137
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25150
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25153
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25158
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25179
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25202
FC
00
00
00
00
00
ENDCHAR
STARTCHAR uni257D
ENCODING 9597
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
20
20
20
20
20
20
20
30
30
30
30
30
30
ENDCHAR
STARTCHAR uni257E
ENCODING 9598
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
00
E0
FC
00
00
00
00
ENDCHAR
STARTCHAR uni257F
ENCODING 9599
SWIDTH 480 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25230
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25265
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25269
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25287
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25289
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25293
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25302
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25314
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25321
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25341
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25355
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25378
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25382
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25410
70
20
00
00
ENDCHAR
STARTCHAR uni27F2
ENCODING 10226
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
38
44
E4
44
04
44
38
00
00
ENDCHAR
STARTCHAR uni27F3
ENCODING 10227
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
70
88
9C
88
80
88
70
00
00
ENDCHAR
STARTCHAR uni27F4
ENCODING 10228
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25424
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25446
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25460
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25468
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25474
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25476
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25487
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25490
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25495
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 25511
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25515
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25516
D8
ENDCHAR
STARTCHAR uni28F1
ENCODING 10481
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
C0
C0
00
18
18
00
18
18
00
D8
D8
ENDCHAR
STARTCHAR uni28F2
ENCODING 10482
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
D8
D8
00
18
18
00
D8
D8
ENDCHAR
STARTCHAR uni28F3
ENCODING 10483
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
C0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25531
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25534
90
78
10
20
00
00
ENDCHAR
STARTCHAR uni2938
ENCODING 10552
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
20
10
08
08
08
50
60
70
00
00
ENDCHAR
STARTCHAR uni2939
ENCODING 10553
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
10
20
40
40
40
28
18
38
00
00
ENDCHAR
STARTCHAR uni293A
ENCODING 10554
SWIDTH 480 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25557
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25598
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25599
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25601
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25613
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25614
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25618
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25654
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25656
BBX 6 12 0 -2
BITMAP
00
38
C0
38
00
68
B0
00
E0
18
E0
00
ENDCHAR
STARTCHAR uni2A90
ENCODING 10896
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
E0
18
E0
00
68
B0
00
38
C0
38
00
ENDCHAR
STARTCHAR uni2A91
ENCODING 10897
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
38
C0
38
E0
18
E0
00
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
08
30
C0
30
08
10
F8
20
F8
40
00
ENDCHAR
STARTCHAR uni2AB6
ENCODING 10934
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
80
60
18
60
80
10
F8
20
F8
40
00
ENDCHAR
STARTCHAR uni2AB7
ENCODING 10935
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
08
30
C0
30
08
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25712

78
80
80
78
00
F0
08
08
F0
00
ENDCHAR
STARTCHAR uni2AD4
ENCODING 10964
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
F0
08
08
F0
00
78
80
80
78
00
ENDCHAR
STARTCHAR uni2AD5
ENCODING 10965
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
78
80
80
78
00
78
00
78
80
80
78
00
78
80
80
78
00

FC
30
30
30
FC
78
30
00
ENDCHAR
STARTCHAR uni2B0E
ENCODING 11022
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
E0
20
20
A8
70
20
00
00
00
ENDCHAR
STARTCHAR uni2B0F
ENCODING 11023
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -2
BITMAP
00
00
00
00
20
70
A8
20
20
E0
00
00
00
ENDCHAR
STARTCHAR uni2B10
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

25749
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25760
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25761
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25772
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25784
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscefixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqlIws/ucs-fonts.tar.gz-cosi-expand-archive-V9Wu XKHE/6x12.bdf
No license file was found, but licenses were detected in source scan.

#
# Name: KOI8-R (RFC1489) to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 18 August 1999
# Authors: Helmut Richter <richter@lrz.de>
#
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#
# General notes:
#
# This table contains the data the Unicode Consortium has on how
# KOI8-R characters map into Unicode. The underlying document is the
# mapping described in RFC 1489. No statements are made as to whether
# this mapping is the same as the mapping defined as "Code Page 878"
# with some vendors.
#
# Format: Three tab-separated columns
# Column #1 is the KOI8-R code (in hex as 0xXX)
# Column #2 is the Unicode (in hex as 0xXXXX)
# Column #3 the Unicode name (follows a comment sign, '#')
#
# The entries are in KOI8-R order.
#
# Version history
#1.0 version: created.
#
#Any comments or problems, contact <errata@unicode.org>
#Please note that <errata@unicode.org> is an archival address;
#notices will be checked, but do not expect an immediate response.
#
0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BEL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0A0x000A#LINE FEED
0x0B0x000B#VERTICAL TABULATION
0x0C0x000C#FORM FEED
0x0D0x000D#CARRIAGE RETURN
0x0E0x000E#SHIFT OUT
0x0F0x000F#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
0x150x0015#NEGATIVE ACKNOWLEDGE
0x160x0016#SYNCHRONOUS IDLE
0x170x0017#END OF TRANSMISSION BLOCK
0x180x0018#CANCEL
0x190x0019#END OF MEDIUM
0x1A0x001A#SUBSTITUTE
0x1B0x001B#ESCAPE
0x1C0x001C#FILE SEPARATOR
0x1D0x001D#GROUP SEPARATOR
0x1E0x001E#RECORD SEPARATOR
0x1F0x001F#UNIT SEPARATOR
0x200x0020#SPACE
0x210x0021#EXCLAMATION MARK
0x220x0022#QUOTATION MARK
0x230x0023#NUMBER SIGN
0x240x0024#DOLLAR SIGN
0x250x0025#PERCENT SIGN
0x260x0026#AMPERSAND
0x270x0027#APOSTROPHE
0x280x0028#LEFT PARENTHESIS
0x290x0029#RIGHT PARENTHESIS
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25793
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25794
STARTFONT 2.1
COMMENT $XConsortium: helvR12.bdf,v 1.15 95/01/26 18:02:58 gildea Exp $
COMMENT $Id: helvR12.bdf,v 1.26 2004-11-28 20:08:46+00 mgk25 Rel $
COMMENT
COMMENT +
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25800
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25801
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25824
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25830
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25833
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25853
STARTCHAR ccircumflex
ENCODING 265
SWIDTH 560 0
DWIDTH 7 0
BBX 5 10 1 0
BITMAP
20
50
00
70
88
80
80
80
80
88
70
ENDCHAR
STARTCHAR Cdotaccent
ENCODING 266
SWIDTH 720 0
DWIDTH 9 0
BBX 7 11 1 0
BITMAP
10
00
3C
42
80
80
80
80
80
42
3C
ENDCHAR
STARTCHAR cdotaccent
ENCODING 267
SWIDTH 560 0
DWIDTH 7 0
BBX 5 9 1 0
BITMAP
20
00
70
88
80
80
80
80
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25875
40
40
40
ENDCHAR
STARTCHAR ibreve
ENCODING 300
SWIDTH 400 0
DWIDTH 5 0
BBX 5 12 -1 0
BITMAP
88
70
00
20
20
20
20
20
20
20
20
20
20
20
20
20
20
ENDCHAR
STARTCHAR ibreve
ENCODING 301
SWIDTH 400 0
DWIDTH 5 0
BBX 5 10 -1 0
BITMAP
88
70
00
20
20
20
20
20
20
20
20
20
20
20
20
20
20
ENDCHAR
STARTCHAR Iogonek
ENCODING 302
SWIDTH 240 0
DWIDTH 3 0
BBX 3 11 0 -2
BITMAP
40
40
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25878
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25884
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25889
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25897
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25898

BITMAP
40
40
E0
40
F0
40
40
40
60
ENDCHAR
STARTCHAR Utilde
ENCODING 360
SWIDTH 640 0
DWIDTH 8 0
BBX 6 12 1 0
BITMAP
28
50
00
84
84
84
84
84
84
84
84
84
84
78
ENDCHAR
STARTCHAR utilde
ENCODING 361
SWIDTH 560 0
DWIDTH 7 0
BBX 5 10 1 0
BITMAP
28
50
00
88
88
88
88
88
88
98
68
ENDCHAR
STARTCHAR Umacron
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25900
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25915
20
ENDCHAR
STARTCHAR uni01AE
ENCODING 430
SWIDTH 560 0
DWIDTH 7 0
BBX 7 12 0 -3
BITMAP
FE
10
10
10
10
10
10
10
10
10
0C
ENDCHAR
STARTCHAR Uhorn
ENCODING 431
SWIDTH 640 0
DWIDTH 8 0
BBX 7 11 1 0
BITMAP
06
02
84
84
84
84
84
84
84
84
78
ENDCHAR
STARTCHAR uhorn
ENCODING 432
SWIDTH 560 0
DWIDTH 7 0
BBX 6 9 1 0
BITMAP
0C
04
88
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25932
8A10
8B10
8710
82E0
ENDCHAR
STARTCHAR uni01CB
ENCODING 459
SWIDTH 880 0
DWIDTH 11 0
BBX 9 12 1 -3
BITMAP
8280
C200
A280
A280
9280
8A80
8A80
8680
8280
0080
0080
0100
ENDCHAR
STARTCHAR uni01CC
ENCODING 460
SWIDTH 720 0
DWIDTH 9 0
BBX 7 12 1 -3
BITMAP
02
00
B2
CA
8A
8A
8A
8A
8A
8A
02
02
04
ENDCHAR
STARTCHAR uni01CD
ENCODING 461
SWIDTH 720 0
DWIDTH 9 0
BBX 7 12 1 0
20
00
50
00
88
88
88
88
88
88
98
68
ENDCHAR
STARTCHAR uni01DB
ENCODING 475
SWIDTH 560 0
DWIDTH 7 0
BBX 6 12 1 0
BITMAP
20
10
84
00
84
84
84
84
84
84
84
78
ENDCHAR
STARTCHAR uni01DC
ENCODING 476
SWIDTH 560 0
DWIDTH 7 0
BBX 5 12 1 0
BITMAP
40
20
00
50
00
88
88
88
88
88
88
98
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25845
ENCODING 498
SWIDTH 1040 0
DWIDTH 13 0
BBX 11 9 1 0
BITMAP
F000
8800
87E0
8420
8440
8480
8500
8A00
F7E0
ENDCHAR
STARTCHAR uni01F3
ENCODING 499
SWIDTH 1040 0
DWIDTH 13 0
BBX 11 9 1 0
BITMAP
0800
0800
6FE0
9820
8840
8880
8900
9A00
6FE0
ENDCHAR
STARTCHAR uni01F4
ENCODING 500
SWIDTH 720 0
DWIDTH 9 0
BBX 7 12 1 0
BITMAP
08
10
00
3C
42
80
80
8E
82
82
46

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25948
STARTCHAR Oslashacute
ENCODING 510
SWIDTH 800 0
DWIDTH 10 0
BBX 10 13 0 -1
BITMAP
0400
0800
0040
1E80
2100
4280
4480
4480
4880
5080
2100
5E00
8000
ENDCHAR
STARTCHAR Oslashacute
ENCODING 511
SWIDTH 560 0
DWIDTH 7 0
BBX 7 10 0 0
BITMAP
08
10
00
3A
44
4C
54
64
44
B8
ENDCHAR
STARTCHAR uni0200
ENCODING 512
SWIDTH 720 0
DWIDTH 9 0
BBX 7 12 1 0
BITMAP
48
24
00
10
10
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25961
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25962
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  25966
STARTCHAR uni0262
ENCODING 610
SWIDTH 560 0
DWIDTH 7 0
BBX 5 7 1 0
BITMAP
70
88
80
98
88
88
70
ENDCHAR
STARTCHAR uni0263
ENCODING 611
SWIDTH 560 0
DWIDTH 7 0
BBX 5 7 1 0
BITMAP
88
88
50
50
20
50
20
ENDCHAR
STARTCHAR uni0264
ENCODING 612
SWIDTH 560 0
DWIDTH 7 0
BBX 5 5 1 2
BITMAP
88
50
20
50
20
ENDCHAR
STARTCHAR uni0265
ENCODING 613
SWIDTH 560 0
DWIDTH 7 0
BBX 5 9 1 0
BITMAP
88
88
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

25978
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25982
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25991
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 25993
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26001
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26002
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26007
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26011
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26015
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26018
ENDCHAR
STARTCHAR uni03D7
ENCODING 983
SWIDTH 640 0
DWIDTH 8 0
BBX 6 13 1 -3
BITMAP
08
10
00
84
48
50
70
50
48
84
04
08
30
ENDCHAR
STARTCHAR uni03DA
ENCODING 986
SWIDTH 560 0
DWIDTH 7 0
BBX 5 11 1 -2
BITMAP
30
48
80
80
80
80
40
30
08
08
10
ENDCHAR
STARTCHAR uni03DB
ENCODING 987
SWIDTH 560 0
DWIDTH 7 0
BBX 5 9 1 -2
BITMAP
08
70
80
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

26027
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26029
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26032
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26034
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26063
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26068
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26070
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26074
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26102
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26105
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26111
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

26112
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26119
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

26127
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26141
2880
3080
FF00
ENDCHAR
STARTCHAR afii57432
ENCODING 1592
SWIDTH 960 0
DWIDTH 12 0
BBX 9 9 1 0
BITMAP
2000
2000
2000
2200
2000
2700
2880
3080
FF00
ENDCHAR
STARTCHAR afii57433
ENCODING 1593
SWIDTH 560 0
DWIDTH 7 0
BBX 6 9 1 -3
BITMAP
60
80
80
60
80
80
80
44
38
ENDCHAR
STARTCHAR afii57434
ENCODING 1594
SWIDTH 560 0
DWIDTH 7 0
BBX 6 11 1 -3
BITMAP
40
00
60
80
80
60
STARTCHAR afii57393
ENCODING 1633
SWIDTH 240 0
DWIDTH 3 0
BBX 3 9 1 0
BITMAP
C0
C0
C0
E0
60
60
20
20
20
ENDCHAR
STARTCHAR afii57394
ENCODING 1634
SWIDTH 560 0
DWIDTH 7 0
BBX 6 9 1 0
BITMAP
C4
FC
F8
60
60
60
20
20
20
20
ENDCHAR
STARTCHAR afii57395
ENCODING 1635
SWIDTH 560 0
DWIDTH 7 0
BBX 6 9 1 0
BITMAP
94
FC
E8
60
60
60
20
20
20
20
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26154
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26165
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26166
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26172
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26177
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
88
78
ENDCHAR
STARTCHAR uni06C2
ENCODING 1730
SWIDTH 480 0
DWIDTH 6 0
BBX 5 11 1 0
BITMAP
30
40
30
40
00
20
20
50
90
88
78
ENDCHAR
STARTCHAR uni06C3
ENCODING 1731
SWIDTH 480 0
DWIDTH 6 0
BBX 5 8 1 0
BITMAP
50
00
20
20
50
90
88
78
ENDCHAR
STARTCHAR uni06C4
ENCODING 1732
SWIDTH 560 0
DWIDTH 7 0
BBX 7 7 0 -3
BITMAP
04
4A
AA
46
02
84
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26185
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26186
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26199
7800
CC00
C600
C600
C780
C640
C780
ENDCHAR
STARTCHAR uni120D
ENCODING 4621
SWIDTH 800 0
DWIDTH 10 0
BBX 8 9 1 0
BITMAP
30
18
3C
66
C3
C3
F3
CB
F3
ENDCHAR
STARTCHAR uni120E
ENCODING 4622
SWIDTH 960 0
DWIDTH 12 0
BBX 10 9 1 0
BITMAP
6000
3000
7800
CC00
C780
C640
C780
C600
C600
C600
ENDCHAR
STARTCHAR uni120F
ENCODING 4623
SWIDTH 880 0
DWIDTH 11 0
BBX 9 11 1 -2
BITMAP
6000
3000

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26225
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26233
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26249
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26257
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26275
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26299
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26303
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26309
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26319
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26320
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26333
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26345
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26348
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

ENDCHAR
STARTCHAR uni1E21
ENCODING 7713
SWIDTH 560.0
DWIDTH 7.0
BBX 5 12 1 -3
BITMAP
F8
00
68
98
88
88
88
98
68
08
88
70
ENDCHAR
STARTCHAR uni1E22
ENCODING 7714
SWIDTH 720.0
DWIDTH 9.0
BBX 7 11 1 0
BITMAP
10
00
82
82
82
82
FE
82
82
82
82
82
ENDCHAR
STARTCHAR uni1E23
ENCODING 7715
SWIDTH 560.0
DWIDTH 7.0
BBX 5 11 1 0
BITMAP
20
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26362
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26389
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26393
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26403
70
ENDCHAR
STARTCHAR uni1EC4
ENCODING 7876
SWIDTH 640 0
DWIDTH 8 0
BBX 6 12 1 0
BITMAP
28
50
20
50
FC
80
80
FC
80
80
80
FC
ENDCHAR
STARTCHAR uni1EC5
ENCODING 7877
SWIDTH 560 0
DWIDTH 7 0
BBX 5 12 1 0
BITMAP
28
50
00
20
50
70
88
88
F8
80
88
70
ENDCHAR
STARTCHAR uni1EC6
ENCODING 7878
SWIDTH 560 0
DWIDTH 7 0
BBX 6 14 1 -2
BITMAP
10
28
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26417
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
8100
8100
8100
8100
4200
3C00
ENDCHAR
STARTCHAR uni1EE1
ENCODING 7905
SWIDTH 560 0
DWIDTH 7 0
BBX 6 10 1 0
BITMAP
28
50
04
74
88
88
88
88
88
88
70
ENDCHAR
STARTCHAR uni1EE2
ENCODING 7906
SWIDTH 800 0
DWIDTH 10 0
BBX 9 11 1 -2
BITMAP
3C80
4280
8100
8100
8100
8100
8100
8100
4200
3C00
0000
0800
ENDCHAR
STARTCHAR uni1EE3
ENCODING 7907
SWIDTH 560 0
DWIDTH 7 0
BBX 6 10 1 -2
BITMAP
BBX 5 13 1 -3
BITMAP
40
20
00
88
88
88
90
50
50
20
20
40
80
ENDCHAR
STARTCHAR uni1EF4
ENCODING 7924
SWIDTH 720 0
DWIDTH 9 0
BBX 7 11 1 -2
BITMAP
82
82
44
44
28
10
10
10
10
00
10
ENDCHAR
STARTCHAR uni1EF5
ENCODING 7925
SWIDTH 560 0
DWIDTH 7 0
BBX 5 10 1 -3
BITMAP
88
88
88
90
50
50
20
20
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26434
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26451
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26452
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26453
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26456
ENDCHAR
STARTCHAR uni30D2
ENCODING 12498
SWIDTH 720 0
DWIDTH 9 0
BBX 7 10 1 0
BITMAP
80
80
80
8C
F0
80
80
80
40
3E
ENDCHAR
STARTCHAR uni30D3
ENCODING 12499
SWIDTH 880 0
DWIDTH 11 0
BBX 9 11 1 0
BITMAP
0280
8280
8000
8000
8C00
F000
8000
8000
8000
4000
3E00
ENDCHAR
STARTCHAR uni30D4
ENCODING 12500
SWIDTH 880 0
DWIDTH 11 0
BBX 9 11 1 0
BITMAP
0100
8280
8100
8000
8C00
F000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26471
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26474
ENCODING 65533
SWIDTH 800 0
DWIDTH 10 0
BBX 10 11 0 0
BITMAP
3F00
7F80
E1C0
CCC0
FCC0
F9C0
F3C0
FFC0
F3C0
7F80
3F00
ENDCHAR
ENDFONT

Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiw5/ucs-fonts.tar.gz-cosi-expand-archive-V9WuKHE/helvR12.bdf
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT "$Id: 8x13B.bdf,v 1.28 2002-11-15 18:23:23+00 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Bold-R-Normal--13-120-75-75-C-80-ISO10646-1
SIZE 13 78 78
FONTBOUNDINGBOX 8 13 0 -2
STARTPROPERTIES 22
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Bold"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 13
POINT_SIZE 120
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 80
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
DEFAULT_CHAR 0
FONT_DESCENT 2
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26485
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26487
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

26493
ENDCHAR
STARTCHAR greater
ENCODING 62
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
60
30
18
0C
06
0C
18
30
60
00
00
ENDCHAR
STARTCHAR question
ENCODING 63
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
7C
C6
C6
0C
18
18
18
00
18
18
18
00
00
ENDCHAR
STARTCHAR at
ENCODING 64
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26500
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26501
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26506
C6
7C
ENCODING 122
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
00
FE
0C
18
30
60
C0
FE
00
00
ENCODING 123
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
1E
30
30
30
18
70
18
30
30
30
1E
00
ENCODING 124
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26519
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26526
66
3C
00
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR plusminus
ENCODING 177
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
18
18
7E
18
18
00
7E
00
00
00
ENDCHAR
STARTCHAR twosuperior
ENCODING 178
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
70
58
18
30
60
78
00
00
00
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26537
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26538
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26554
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26561
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26565
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26569
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26576
ENCODE 294
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
66
66
FF
66
66
7E
66
66
66
00
00
ENDCHAR
STARTCHAR hbar
ENCODING 295
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
60
FC
60
6C
76
66
66
66
66
66
66
66
00
00
ENDCHAR
STARTCHAR Itilde
ENCODING 296
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
34
58
00
ENCODING 306
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
FE
66
66
66
66
66
66
66
F6
C6
7C
ENDCHAR
STARTCHAR ij
ENCODING 307
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
66
66
00
EE
66
66
66
66
F6
C6
7C
ENDCHAR
STARTCHAR Jcircumflex
ENCODING 308
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
1C
36
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26604
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26606
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26623
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26625
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26635
62
3C
ENDCHAR
STARTCHAR uni01BB
ENCODING 443
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
7C
C6
C6
06
0C
FE
30
60
C0
FE
00
00
ENDCHAR
STARTCHAR uni01BC
ENCODING 444
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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FE
C2
C0
DC
E6
06
06
06
06
C6
7C
00
00
ENDCHAR
STARTCHAR uni01BD
ENCODING 445
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26639
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26642
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26648
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26650
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

26654
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26682
00
00
ENDCHAR
STARTCHAR Eta
ENCODING 919
SWIDTH 568 0
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BITMAP
00
C6
C6
C6
C6
C6
FE
C6
C6
C6
C6
C6
C6
00
00
ENDCHAR
STARTCHAR Theta
ENCODING 920
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
7C
C6
C6
C6
FE
C6
C6
C6
C6
C6
7C
00
00
ENDCHAR
STARTCHAR Iota
ENCODING 921
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26696
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26714
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26725
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26728
ENCODING 1052
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
C3
E7
FF
DB
C3
C3
C3
C3
C3
00
00
ENDCHAR
STARTCHAR afii10031
ENCODING 1053
SWIDTH 568 0
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BITMAP
00
00
66
66
66
66
66
7E
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66
66
66
66
00
00
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STARTCHAR afii10032
ENCODING 1054
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
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3C
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26742
BITMAP
00
00
00
00
1E
36
36
36
36
66
00
00
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STARTCHAR afii10078
ENCODING 1084
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BBX 8 13 0 -2
BITMAP
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00
00
00
C6
EE
FE
D6
C6
C6
00
00
ENDCHAR
STARTCHAR afii10079
ENCODING 1085
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
00
00
66
66
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26767
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26779
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26789
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26792
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26808
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26858
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26872
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26878
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26904
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26906
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26916
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26936
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26939

STARTCHAR notequal
ENCODING 8800
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
04
0C
FE
18
30
FE
60
40
00
00
ENDCHAR

STARTCHAR lessequal
ENCODING 8804
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
06
1C
70
C0
70
1C
06
00
FE
00
00
ENDCHAR

STARTCHAR greaterequal
ENCODING 8805
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 26939
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26950
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26955
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT "$Id: 9x15B.bdf,v 1.35 2006-01-05 20:03:17+00 mgk25 Rel S$"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Bold-R-Normal--15-140-75-75-C-90-ISO10646-1
SIZE 11 75 75
FONTBOUNDINGBOX 9 15 0 -3
STARTPROPERTIES 22
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FAMILY_NAME "Fixed"
WEIGHT_NAME "Bold"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26968
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26987
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  26995
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27001
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0000
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4C00
0C00
1800
0C00
4C00
3800
0000
0000
0000
0000
0000
0000
0000
0000
0000
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STARTCHAR acute
ENCODING 180
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
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0000
0C00
1800
3000
0000
0000
0000
0000
0000
0000
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0000
0000
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR mu
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27016
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27018
ENCODING 205
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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1800
3000
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1800
1800
1800
1800
1800
7E00
0000
0000
0000
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STARTCHAR Icircumflex
ENCODING 206
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
1800
3C00
6600
0000
7E00
1800
1800
1800
1800
1800
7E00
0000
0000
0000
ENDCHAR
STARTCHAR Idieresis
ENCODING 207
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27027
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27038
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27040
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27051
3C00
6600
0000
C300
C300
C300
FF00
C300
C300
C300
C300
0000
0000
0000
ENDCHAR
STARTCHAR hcircumflex
ENCODING 293
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
1800
3C00
6600
0000
C000
C000
C000
DC00
E600
C300
C300
C300
0000
0000
0000
ENDCHAR
STARTCHAR Hbar
ENCODING 294
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
6300
6300
FF80
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<th>Value</th>
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<tr>
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<tr>
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**STARTCHAR Ydieresis**
**ENCODING 376**
**SWIDTH 785.0**
**DWIDTH 9.0**
**BBX 9 15 0 -3**

**BITMAP**
| 0000 | 6600 |
| 6600 | 0000 |
| C300 | C300 |
| 6600 | 3C00 |
| 1800 | 1800 |
| 1800 | 1800 |
| 1800 | 0000 |
| 0000 | 0000 |
| 0000 |     |

**ENDCHAR**

**STARTCHAR Zacute**
**ENCODING 377**
**SWIDTH 785.0**
**DWIDTH 9.0**
**BBX 9 15 0 -3**

**BITMAP**
| 0300 | 0600 |
| 0C00 |     |

---

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27100
1800
3000
6000
6000
7F00
0000
0000
0000

ENDCHAR
STARTCHAR zdotaccent
ENCODING 380
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
1800
1800
0000
7E00
0600
0C00
1800
3000
6000
7E00
0000
0000
0000

ENDCHAR
STARTCHAR Zcaron
ENCODING 381
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
6600
3C00
1800
0000
7F00
0300
0600
0C00
1800
3000
6000
C000
6600
3C00
0000
0000
0000
ENDCHAR
STARTCHAR uni0189
ENCODING 393
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
7C00
6600
6300
6300
6B00
6300
6300
6300
6300
6600
7C00
0000
0000
0000
ENDCHAR
STARTCHAR uni018A
ENCODING 394
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
FC00
B600
B300
3300
3300
3300
3300
3300
3300
3600
3C00
0000
ENCODING 469
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
7E00
0000
6600
6600
0000
C300
C300
C300
C300
C300
C300
6600
3C00
0000
0000
0000
ENDCHAR
STARTCHAR uni01D6
ENCODING 470
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
7E00
0000
6600
6600
0000
C300
C300
C300
C300
C300
C300
6700
3B00
0000
0000
0000
ENDCHAR
STARTCHAR uni01D7
ENCODING 471
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27148
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27156
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27157
6600
C300
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C300
C300
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni0203
ENCODING 515
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
3C00
4200
0000
3E00
4300
0300
7F00
C300
C700
7B00
0000
0000
0000
ENDCHAR
STARTCHAR uni0204
ENCODING 516
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
6600
3300
0000
7F00
6000
6000
6000
7E00
6000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

27167
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27169
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27179
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27194
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27197
3C00
6600
C300
C300
C300
C300
FF00
C300
C300
C300
0000
0000
0000
ENDCHAR
STARTCHAR Beta
ENCODING 914
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
FC00
C600
C300
C600
FC00
C600
C300
C300
C600
FC00
0000
0000
0000
ENDCHAR
STARTCHAR Gamma
ENCODING 915
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
FF00
C000
C000
C000
C000
C000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27202
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27216
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27246
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<td>0000</td>
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27255
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27256
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27285
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7300
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C300
C300
E700
7F00
7E00
0000
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STARTCHAR afii57470
ENCODING 1607
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DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
1800
3C00
6600
6600
7E00
3C00
0000
0000
0000
0000
0000
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STARTCHAR afii57448
ENCODING 1608
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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0000
0000
0000
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1E00
3F00
3300
3300
3F00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27340
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27346
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27370
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27380
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27398
DC00
E600
C300
C300
C300
C300
C300
C300
0000
0000
0000
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BBX 9 15 0 -3
BITMAP
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0000
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C300
C300
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C300
C300
FF00
C300
C300
C300
C300
C300
C300
C300
0000
1800
1800
ENDCHAR
STARTCHAR uni1E25
ENCODING 7717
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DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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C000
C000
C000
DC00
E600
C300
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C300
ENCODING 7722
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BBX 9 15 0 -3
BITMAP
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FF00
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C300
0000
2200
1C00
ENDCHAR
STARTCHAR uni1E2B
ENCODING 7723
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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C000
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DC00
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C300
C300
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1C00
ENDCHAR
STARTCHAR uni1E2C
ENCODING 7724
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C300
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ENDCHAR
STARTCHAR uni1E33
ENCODING 7731
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DWIDTH 9 0
BBX 9 15 0 -3
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7800
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6600
6300
0000
0C00
0C00
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STARTCHAR uni1E34
ENCODING 7732
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DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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0000
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C600
CC00
D800
F000
F000
D800
CC00
C600
C300
0000
7E00
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27423
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27434
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

27459
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27468
7F00
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0C00
ENDCHAR
STARTCHAR uni1EC7
ENCODING 7879
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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0000
3C00
4200
0000
3C00
6600
C300
FF00
C000
6300
3E00
0000
1800
1800
ENDCHAR
STARTCHAR uni1EC8
ENCODING 7880
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DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
1800
0C00
1800
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3C00
1800
1800
1800
1800
1800
1800
1800
7E00
0000
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27480
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27489
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27490
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27499
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27534
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27544
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STARTCHAR uni1FB3
ENCODING 8115
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BBX 9 15 0 -3
BITMAP
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0000
0000
0000
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C300
C300
C700
CB00
7300
0000
1800
1C00
ENDCHAR
STARTCHAR uni1FB4
ENCODING 8116
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DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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0600
0C00
1800
0000
7B00
C700
C300
C300
C700
CB00
7300
0000
1800
1C00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27583
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27592
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27599
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27613
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BF00
E000
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ENCODING 8363
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BBX 9 15 0 -3
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0300
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6700
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C300
C300
C300
6700
3B00
0000
7E00
0000
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STARTCHAR Euro
ENCODING 8364
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DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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0000
0E00
1B00
3000
7800
3000
7800
3000
7800
3000
7800
1B00
0E00
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27629
ENDCHAR
STARTCHAR threeeighths
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BBX 9 15 0 -3
BITMAP
0000
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E000
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E000
3000
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ED80
0700
0D80
0D80
0700
0000
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SWIDTH 785 0
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F000
C000
F000
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3700
ED80
0700
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0000
0000
ENDCHAR
STARTCHAR seveneighths
ENCODING 8542
SWIDTH 785 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27670
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27680
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27691
3400
1E00
3C00
3000
3000
3000
3000
3F00
1F00
ENDCHAR
STARTCHAR uniFECA
ENCODING 65226
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
0000
7E00
3C00
1800
3F80
7780
6000
6000
6000
7E00
3E00
ENDCHAR
STARTCHAR uniFECB
ENCODING 65227
SWIDTH 785 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
1E00
3E00
3000
FE00
FC00
0000
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/9x15B.bdf
No license file was found, but licenses were detected in source scan.

COMMENT Contributed by Janne V. Kujala <jvk@iki.fi>
COMMENT $Id: 4x6.bdf,v 1.5 2002-08-26 18:05:49+01 mgk25 Rel$
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
FONT -Misc-Fixed-Medium-R-Normal--6-60-75-75-C-40-ISO10646-1
SIZE 6 75 75
FONTBOUNDINGBOX 4 6 0 -1
STARTPROPERTIES 23
FONTNAME.REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 6
POINT_SIZE 60
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 40
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
FONT_ASCENT 5
FONT_DESCENT 1
DESTINATION 1
COPYRIGHT "Public domain font.  Share and enjoy."
_XMDFED_INFO "Edited with xmbfed 4.3."
_ CAP_HEIGHT 5
X_HEIGHT 4
DEFAULT_CHAR 0
ENDPROPERTIES
CHARS 919
STARTCHAR char0
ENCODING 0
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
A0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27738
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27740
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27761
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27764
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27770

00
ENDCHAR
STARTCHAR Iacute
ENCODING 205
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
20
E0
40
40
E0
00
ENDCHAR
STARTCHAR Icircumflex
ENCODING 206
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
40
E0
40
40
E0
00
ENDCHAR
STARTCHAR Idieresis
ENCODING 207
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
A0
40
40
40
E0
00
ENDCHAR
STARTCHAR Eth
ENCODING 208
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
E0
A0
A0
E0
00
ENDCHAR
STARTCHAR Udiereisis
ENCODING 220
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
A0
00
A0
A0
E0
00
ENDCHAR
STARTCHAR Yacute
ENCODING 221
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
20
00
A0
40
40
00
ENDCHAR
STARTCHAR Thorn
ENCODING 222
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
80
C0
A0
C0
80
00
ENDCHAR
STARTCHAR germandbls
ENCODING 223
SWIDTH 640 0
DWIDTH 4 0

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27774
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27776
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27777
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27778
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27781
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0
ENDCHAR
STARTCHAR kgreenlandic
ENCODING 312
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
A0
A0
C0
A0
00
ENDCHAR
STARTCHAR lacute
ENCODING 313
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
40
80
80
80
E0
00
ENDCHAR
STARTCHAR lacute
ENCODING 314
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
20
C0
40
40
E0
00
ENDCHAR
STARTCHAR Lcommaaccent
ENCODING 315
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
80
80
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27803
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27822
A0
40
00
ENDCHAR
STARTCHAR Iota
ENCODING 921
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
E0
40
40
40
E0
00
ENDCHAR
STARTCHAR Kappa
ENCODING 922
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
A0
A0
C0
A0
A0
00
ENDCHAR
STARTCHAR Lambda
ENCODING 923
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
40
40
A0
A0
A0
00
ENDCHAR
STARTCHAR Mu
ENCODING 924
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27850
ENDCHAR
STARTCHAR afii10032
ENCODING 1054
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
40
A0
A0
A0
40
00
ENDCHAR
STARTCHAR afii10033
ENCODING 1055
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
E0
A0
A0
A0
A0
00
ENDCHAR
STARTCHAR afii10034
ENCODING 1056
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
C0
A0
C0
80
80
00
ENDCHAR
STARTCHAR afii10035
ENCODING 1057
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
40
A0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27852
A0
40
80
ENDCHAR
STARTCHAR afii10193
ENCODING 1119
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
A0
A0
A0
E0
40
ENDCHAR
STARTCHAR afii10050
ENCODING 1168
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
20
E0
80
80
80
00
ENDCHAR
STARTCHAR afii10098
ENCODING 1169
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
20
E0
80
80
00
ENDCHAR
STARTCHAR uni0492
ENCODING 1170
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27871
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27874
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27877
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27884
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27890
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27894
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27898
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27901
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27903
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27908

therefore
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
ENCODE 8804
SWIDTH 640 0
DWIDTH 4 0
BBX 460 -1
BITMAP
20
40
E0
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E0
00
ENDCHAR
STARTCHAR greaterequal
ENCODE 8805
SWIDTH 640 0
DWIDTH 4 0
BBX 460 -1
BITMAP
80
40
E0
00
E0
00
ENDCHAR
STARTCHAR uni2266
ENCODE 8806
SWIDTH 640 0
DWIDTH 4 0
BBX 460 -1
BITMAP
20
40
E0
00
E0
00
ENDCHAR
STARTCHAR uni2267
ENCODE 8807
SWIDTH 640 0
DWIDTH 4 0
BBX 460 -1
BITMAP
80
40
E0
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

27923
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27939
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27945
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27847
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27952
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27960
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27969
STARTCHAR uni2581
ENCODING 9601
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
00
00
00
00
F0
ENDCHAR
STARTCHAR uni2582
ENCODING 9602
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
00
00
00
00
F8
ENDCHAR
STARTCHAR uni2583
ENCODING 9603
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
00
00
00
00
F8
F8
ENDCHAR
STARTCHAR dnblock
ENCODING 9604
SWIDTH 640 0
DWIDTH 4 0
BBX 4 6 0 -1
BITMAP
00
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27872
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  27980

Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiwS/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/4x6.bdf
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT "$Id: 6x10.bdf,v 1.35 2006-01-05 20:03:17+00 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Medium-R-Normal--10-100-75-75-C-60-ISO10646-1
SIZE 10 75 75
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 27987
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

20
40
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10
08
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ENDCHAR
STARTCHAR equal
ENCODING 61
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
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F8
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ENDCHAR
STARTCHAR greater
ENCODING 62
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
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ENDCHAR
STARTCHAR question
ENCODING 63
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28024
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28027
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28030
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28033
70
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ENDCHAR
STARTCHAR Uacute
ENCODING 218
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
10
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88
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70
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ENDCHAR
STARTCHAR Ucircumflex
ENCODING 219
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
20
50
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88
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ENDCHAR
STARTCHAR Udieresis
ENCODING 220
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
50
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88
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28081
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
28094
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28097
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28110
ENDCHAR
STARTCHAR Theta
ENCODING 920
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
70
88
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F8
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ENDCHAR
STARTCHAR Iota
ENCODING 921
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
70
20
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ENDCHAR
STARTCHAR Kappa
ENCODING 922
SWIDTH 576 0
DWIDTH 6 0
BITMAP
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90
E0
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88
00
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ENDCHAR
STARTCHAR lambda
ENCODING 955
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
70
88
68
98
88
88
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88
00
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ENDCHAR
STARTCHAR mu
ENCODING 956
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
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88
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D8
A8
80
80
ENDCHAR
STARTCHAR nu
ENCODING 957
STARTCHAR uni03F0
ENCODING 1008
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
00
00
88
50
60
60
98
00
00
ENDCHAR
STARTCHAR uni03F1
ENCODING 1009
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
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70
88
88
88
F0
80
70
ENDCHAR
STARTCHAR uni03F2
ENCODING 1010
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28148
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28149
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28150
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28172
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28186
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28190
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28194
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28211
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28224
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28241
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28242
BBX 6 10 0 -2
BITMAP
68
50
20
20
20
20
20
28
10
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00
ENDCHAR
STARTCHAR uni1F36
ENCODING 7990
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
78
10
20
20
20
20
20
28
10
00
00
ENDCHAR
STARTCHAR uni1F37
ENCODING 7991
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
78
20
10
20
20
20
20
28
10
00
00
ENDCHAR
STARTCHAR uni1F38
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 28246
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28257
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28261
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28272
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28281
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28318
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28319
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28322
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28324
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28326
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28338
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28339
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28351
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28352
such that
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28356

BITMAP
00
00
F8
20
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F8
20
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ENDCHAR
STARTCHAR fraction
ENCODING 8725
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
08
08
10
20
40
80
80
00
00
ENDCHAR
STARTCHAR uni2218
ENCODING 8728
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
00
00
30
48
48
30
00
00
00
ENDCHAR
STARTCHAR periodcentered
ENCODING 8729
similar

congruent
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28365
A8
70
00
00
00
ENDCHAR
STARTCHAR circlemultiply
ENCODING 8855
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 72
BITMAP
00
00
70
D8
A8
D8
70
00
00
00
00
ENDCHAR
STARTCHAR uni22A4
ENCODING 8868
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 72
BITMAP
00
F8
20
20
20
20
20
20
00
00
00
ENDCHAR
STARTCHAR perpendicular
ENCODING 8869
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 72
BITMAP
00
20

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28371
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28376
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  23833
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
30
30
30
30
3C
3C
00
00
00
00
00
00
ENDCHAR
STARTCHAR SF040000
ENCODING 9496
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
20
20
20
20
20
E0
00
00
00
00
ENDCHAR
STARTCHAR uni2519
ENCODING 9497
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
20
20
20
20
E0
E0
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00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28392
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28400
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28419
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28441
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

28462
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

28469
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28475
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28512
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28516
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28534
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
50
00
00
00
10
00
50
00
00
00
ENDDCHAR
STARTCHAR uni28EA
ENCODING 10474
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
10
00
40
00
10
00
50
00
00
00
ENDCHAR
STARTCHAR uni28EB
ENCODING 10475
SWIDTH 576 0
DWIDTH 6 0
BBX 6 10 0 -2
BITMAP
00
50
00
40
00
10
00
50
00
00
00
ENDDCHAR
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqlws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/6x10.bdf

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

STARTFONT 2.1
COMMENT "$Id: 7x13B.bdf,v 1.27 2002-11-08 20:42:37+00 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Bold-R-Normal--13-120-75-75-C-70-ISO10646-1
SIZE 13 78 78
FONTBOUNDINGBOX 7 13 0 -2
STARTPROPERTIES 23
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Bold"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 13
POINT_SIZE 120
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 70
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
DESTINATION 1
DEFAULT_CHAR 0
FONT_DESCENT 2
FONT_ASCENT 11
COPYRIGHT "Public domain font.  Share and enjoy."
_XMBDFED_INFO "Edited with xmbfed 4.5."
CAP_HEIGHT 9
X_HEIGHT 6
ENDPROPERTIES
CHARS 1003
STARTCHAR char0
ENCODING 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28555
FC 0C 0C 00 00 ENDCHAR
STARTCHAR five
ENCODING 53
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00 00 FC C0 C0 F8 CC 0C 0C CC 78 00 00 ENDCHAR
STARTCHAR six
ENCODING 54
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00 00 78 CC C0 C0 F8 CC CC CC CC 78 00 00 ENDCHAR
STARTCHAR seven
ENCODING 55
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28563
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

28580
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28581
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28600
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28607
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28617
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28636
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28642
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

28656
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28669
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28680
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28690
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28700
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28701
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28707
30
30
30
30
30
30
30
30
FC
00
00
ENDCHAR
STARTCHAR Kappa
ENCODING 922
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
C4
CC
D8
F0
E0
F0
D8
CC
C4
00
00
ENDCHAR
STARTCHAR Lambda
ENCODING 923
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
00
00
30
30
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78
48
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CC
CC
CC
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28710
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28733
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28735
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28817
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28843
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28856
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28866
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28868
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STARTCHAR uni1F98
ENCODING 8088
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DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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EC
EC
6C
6C
7C
6C
6C
6C
00
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STARTCHAR uni1F99
ENCODING 8089
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BBX 7 13 0 -2
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EC
EC
6C
6C
7C
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6C
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ENDCHAR
STARTCHAR uni1F9A
ENCODING 8090
SWIDTH 497 0
DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28926
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28928
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 28940
48
48
CC
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STARTCHAR oneeighth
ENCODING 8539
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DWIDTH 7 0
BBX 7 13 0 -2
BITMAP
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C0
C0
C0
DC
F6
1C
36
36
1C
00
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STARTCHAR threeeighths
ENCODING 8540
SWIDTH 497 0
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BBX 7 13 0 -2
BITMAP
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C0
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7C
F6
1C
36
36
1C
00
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ENDCHAR
STARTCHAR fiveeighths
ENCODING 8541
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28960
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  28965

Found in path(s):
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No license file was found, but licenses were detected in source scan.

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COMMENT $Id: 6x13.bdf,v 1.115 2009-04-06 18:50:15+01 mgk25 Rel $
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
FONT -Misc-Fixed-Medium-R-SemiCondensed--13-120-75-75-C-60-ISO10646-1
SIZE 12 75 75
FONTBOUNDINGBOX 6 13 0 -2
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FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "SemiCondensed"
ADD_STYLE_NAME ""
PIXEL_SIZE 13
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RESOLUTION_X 75
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AVERAGE_WIDTH 60
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
DEFAULT_CHAR 0
FONT_DESCENT 2
FONT_ASCENT 11
COPYRIGHT "Public domain font. Share and enjoy."
CAP_HEIGHT 9
X_HEIGHT 6
_GBDFED_INFO "Edited with gbdfed 1.3."
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BITMAP
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F8
80
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70
00
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BBX 6 13 0 -2
BITMAP
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00
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20
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70
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ENDCHAR
STARTCHAR iacute
ENCODING 237
SWIDTH 480 0
DWIDTH 6 0
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BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.2.0  29054

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BBX 6 13 0 -2
BITMAP

ENDCHAR

STARTCHAR emacron
ENCODING 275
SWIDTH 480 0
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BBX 6 13 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 29067
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  29105
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A8
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F8
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STARTCHAR uni01CE
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STARTCHAR uni01CF
ENCODING 463
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

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STARTCHAR aeacute
ENCODING 509
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
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28
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A0
A8
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00
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STARTCHAR Oslashacute
ENCODING 510
SWIDTH 480 0
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BBX 6 13 0 -2
BITMAP
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20
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A8
C8
C8
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STARTCHAR oslashacute
ENCODING 511
SWIDTH 480 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 29154
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  29155
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  29187
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 29206
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 29236
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

29293
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 29297
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 29302
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BBX 6 13 0 -2
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F8
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ENDCHAR
STARTCHAR upsilon
ENCODING 965
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ENCODING 966
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BITMAP
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STARTCHAR uni1E16
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BBX 6 13 0 -2
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

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STARTCHAR uni1E28
ENCODING 7720
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  29787
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STARTCHAR uni1FC9
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STARTCHAR uni1FCA
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BBX 6 13 0 -2
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  29813
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 29843
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D8
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BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  30125
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SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
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00
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ENDCHAR
STARTCHAR uniFFB6
ENCODING 65462
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
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58
A8
A4
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ENDCHAR
STARTCHAR uniFFB7
ENCODING 65463
SWIDTH 480 0
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No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT $XConsortium: cI6x12.bdf,v 1.2 94/04/11 12:08:30 gildea Exp $
COMMENT
COMMENT  Copyright 1989 Dale Schumacher, dal@syntel.mn.org
Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Dale Schumacher not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Dale Schumacher makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Modified by Robert Brady, <rwb197@ecs.soton.ac.uk>
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 30707
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  30709
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  30719
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</tr>
<tr>
<td>BBX</td>
<td>6 12 0 -3</td>
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| DWIDTH     | 6 0       |
| BBX        | 6 12 0 -3 |

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</table>

| ENDCCHAR |

| STARTCHAR | bar |
| ENCODING   | 124 |
| SWIDTH     | 480 0 |
| DWIDTH     | 6 0 |
| BBX        | 6 12 0 -3 |

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BITMAP
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STARTCHAR uni0304
ENCODING 772
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  30905
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 30914
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  30932
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  30950
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  30971
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31012
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31018
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31022
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31038
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ENDCHAR
STARTCHAR propersuperset
ENCODING 8835
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
BITMAP
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ENDCHAR
STARTCHAR notsubset
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SWIDTH 480 0
DWIDTH 6 0
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BITMAP
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A0
A0
A0
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20
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00
ENDCHAR
STARTCHAR uni2285
ENCODING 8837
SWIDTH 480 0
DWIDTH 6 0
BBX 6 12 0 -3
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31079
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qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/clR6x12.bdf
No license file was found, but licenses were detected in source scan.

#
#Name:       ISO/IEC 8859-3:1999 to Unicode
#Unicode version:  3.0
#Table version:   1.0
#Table format:   Format A
#Date:         1999 July 27
#Authors:      Ken Whistler <kenw@sybase.com>
#
#Copyright (c) 1991-1999 Unicode, Inc. All Rights reserved.
#
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#No claims are made as to fitness for any particular purpose. No
#warranties of any kind are expressed or implied. The recipient
#agrees to determine applicability of information provided. If this
#file has been provided on optical media by Unicode, Inc., the sole
#remedy for any claim will be exchange of defective media within 90
#days of receipt.
#
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#supplied in this file in the creation of products supporting the
#Unicode Standard, and to make copies of this file in any form for
#internal or external distribution as long as this notice remains
#attached.
#
#General notes:
#
#This table contains the data the Unicode Consortium has on how
#   ISO/IEC 8859-3:1999 characters map into Unicode.
#
#Format: Three tab-separated columns
#   Column #1 is the ISO/IEC 8859-3 code (in hex as 0XX)
#   Column #2 is the Unicode (in hex as 0XXXX)
#   Column #3 the Unicode name (follows a comment sign, '#')
#
#The entries are in ISO/IEC 8859-3 order.
#
#Version history
#1.0 version updates 0.1 version by adding mappings for all
#control characters.
#
#Updated versions of this file may be found in:
#  <ftp://ftp.unicode.org/Public/MAPPINGS/>
#
#Any comments or problems, contact <errata@unicode.org>
#Please note that <errata@unicode.org> is an archival address;
#notices will be checked, but do not expect an immediate response.
#
0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0A0x000A#LINE FEED
0x0B0x000B#VERTICAL TABULATION
0x0C0x000C#FORM FEED
0x0D0x000D#CARRIAGE RETURN
0x0E0x000E#SHIFT OUT
0x0F0x000F#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
0x150x0015#NEGATIVE ACKNOWLEDGE
0x160x0016#SYNCHRONOUS IDLE
0x170x0017#END OF TRANSMISSION BLOCK
0x180x0018#CANCEL
0x190x0019#END OF MEDIUM
0x1A0x001A#SUBSTITUTE
0x1B0x001B#ESCAPE
0x1C0x001C#FILE SEPARATOR
0x1D0x001D#GROUP SEPARATOR
0x1E0x001E#RECORD SEPARATOR
0x1F0x001F#UNIT SEPARATOR
0x200x0020#SPACE
0x210x0021#EXCLAMATION MARK
0x220x0022#QUOTATION MARK
0x230x0023#NUMBER SIGN
0x240x0024#DOLLAR SIGN
0x250x0025#PERCENT SIGN
0x260x0026#AMPERSAND
0x270x0027#APOSTROPHE
0x280x0028#LEFT PARENTHESIS
0x290x0029#RIGHT PARENTHESIS
0x2A0x002A#ASTERISK
0x2B0x002B#PLUS SIGN
0x2C0x002C#COMMA
0x2D0x002D#HYPHEN-MINUS
0x2E0x002E#FULL STOP
0x2F0x002F#SOLIDUS
0x300x0030#DIGIT ZERO
0x310x0031#DIGIT ONE
0x320x0032#DIGIT TWO
0x330x0033#DIGIT THREE
0x340x0034#DIGIT FOUR
0x350x0035#DIGIT FIVE
0x360x0036#DIGIT SIX
0x370x0037#DIGIT SEVEN
0x380x0038#DIGIT EIGHT
0x390x0039#DIGIT NINE
0x3A0x003A#COLON
0x3B0x003B#SEMICOLON
0x3C0x003C#LESS-THAN SIGN
0x3D0x003D#EQUALS SIGN
0x3E0x003E#GREATER-THAN SIGN
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRgIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-3.TXT
No license file was found, but licenses were detected in source scan.
Unicode versions of the X11 "misc-fixed-*" fonts

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

Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/> -- 2008-04-21

This package contains the X Window System bitmap fonts

- Misc-Fixed-*.-*-*.-*-*-C-*-ISO10646-1

These are Unicode (ISO 10646-1) extensions of the classic ISO 8859-1 X11 terminal fonts that are widely used with many X11 applications such as xterm, emacs, etc.

COVERAGE
--------

None of these fonts covers Unicode completely. Complete coverage simply would not make much sense here. Unicode 5.1 contains over 100000 characters, and the large majority of them are Chinese/Japanese/Korean Han ideographs (~70000) and Korean Hangul Syllables (~11000) that cannot adequately be displayed in the small pixel sizes of the fixed fonts. Similarly, Arabic characters are difficult to fit nicely together with European characters into the fixed character cells and X11 lacks the ligature substitution mechanisms required for using Indic scripts.

Therefore these fonts primarily attempt to cover Unicode subsets that fit together with European scripts. This includes the Latin, Greek, Cyrillic, Armenian, Georgian, and Hebrew scripts, plus a lot of linguistic, technical and mathematical symbols. Some of the fixed fonts now also cover Arabic, Thai, Ethiopian, halfwidth Katakana, and some other non-European scripts.

We have defined 3 different target character repertoires (ISO 10646-1 subsets) that the various fonts were checked against for minimal guaranteed coverage:

TARGET1  617 characters
Covers all characters of ISO 8859 part 1-5,7,10,13-16, CEN MES-1, ISO 6937, Microsoft CP1251/CP1252, DEC VT100 graphics symbols, and the replacement and default character. It is intended for small bold, italic, and proportional fonts, for which adding block graphics characters would make little sense. This repertoire covers the following ISO 10646-1:2000 collections completely: 1-3, 8, 12.
TARGET2  886 characters
   Adds to TARGET1 the characters of the Adobe/Microsoft
   Windows Glyph List 4 (WGL4), plus a selected set of
   mathematical characters (covering most of ISO 31-11
   high-school level math symbols) and some combining
   characters. It is intended to be covered by all normal
   "fixed" fonts and covers all European IBM, Microsoft, and
   Macintosh character sets. This repertoire covers the
   following ISO 10646-1:2000 (including Amd 1:2002)
   collections completely: 1-3, 8, 12, 33, 45.

TARGET3  3282 characters
   Adds to TARGET2 all characters of all European scripts
   (Latin, Greek, Cyrillic, Armenian, Georgian), all
   phonetic alphabet symbols, many mathematical symbols
   (including all those available in LaTeX), all typographic
   punctuation, all box-drawing characters, control code
   pictures, graphical shapes and some more that you would
   expect in a very comprehensive Unicode 4.0 font for
   European users. It is intended for some of the more
   useful and more widely used normal "fixed" fonts. This
   repertoire is, with two exceptions, a superset of all
   graphical characters in CEN MES-3A and covers the
   following ISO 10646-1:2000 (including Amd 1:2002)
   collections completely: 1-12, 27, 30-31, 32 (only
   graphical characters), 33-42, 44-47, 63, 65, 70 (only
   graphical characters).

   [The two MES-3A characters deliberately omitted are the
   angle bracket characters U+2329 and U+232A. ISO and CEN
   appears to have included these into collection 40 and
   MES-3A by accident, because there they are the only
   characters in the Unicode EastAsianWidth "wide" class.]

CURRENT STATUS:

6x13.bdf 8x13.bdf 9x15.bdf 9x18.bdf 10x20.bdf:
   Complete (TARGET3 reached and checked)

5x7.bdf 5x8.bdf 6x9.bdf 6x10.bdf 6x12.bdf 7x13.bdf 7x14.bdf cfR6x12.bdf:
   Complete (TARGET2 reached and checked)

6x13B.bdf 7x13B.bdf 7x14B.bdf 8x13B.bdf 9x15B.bdf 9x18B.bdf:
   Complete (TARGET1 reached and checked)
Complete (TARGET1 minus Hebrew and block graphics)

[None of the above fonts contains any character that has in Unicode the East Asian Width Property "W" or "F" assigned. This way, the desired combination of "half-width" and "full-width" glyphs can be achieved easily. Most font mechanisms display a character that is not covered in a font by using a glyph from another font that appears later in a priority list, which can be arranged to be a "full-width" font.]

The supplement package

http://www.cl.cam.ac.uk/~mgk25/download/ucs-fonts-asian.tar.gz

contains the following additional square fonts with Han characters for East Asian users:

12x13ja.bdf:

Covers TARGET2, JIS X 0208, Hangul, and a few more. This font is primarily intended to provide Japanese full-width Hiragana, Katakana, and Kanji for applications that take the remaining ("halfwidth") characters from 6x13.bdf. The Greek lowercase characters in it are still a bit ugly and will need some work.

18x18ja.bdf:

Covers all JIS X 0208, JIS X 0212, GB 2312-80, KS X 1001:1992, ISO 8859-1,2,3,4,5,7,9,10,15, CP437, CP850 and CP1252 characters, plus a few more, where priority was given to Japanese han style variants. This font should have everything needed to cover the full ISO-2022-JP-2 (RFC 1554) repertoire. This font is primarily intended to provide Japanese full-width Hiragana, Katakana, and Kanji for applications that take the remaining ("halfwidth") characters from 9x18.bdf.

18x18ko.bdf:

Covers the same repertoire as 18x18ja plus full coverage of all Hangul syllables and priority was given to Hanja glyphs in the unified CJK area as they are used for writing Korean.

The 9x18 and 6x12 fonts are recommended for use with overstriking combining characters.
Bug reports, suggestions for improvement, and especially contributed extensions are very welcome!

INSTALLATION

You install the fonts under Unix roughly like this (details depending on your system of course):

System-wide installation (root access required):

```
cd submission/
make
su
mv -b *.pcf.gz /usr/lib/X11/fonts/misc/
cd /usr/lib/X11/fonts/misc/
mkfontdir
xset fp rehash
```

Alternative: Installation in your private user directory:

```
cd submission/
make
mkdir -p ~/local/lib/X11/fonts/
mv *.pcf.gz ~/local/lib/X11/fonts/
cd ~/local/lib/X11/fonts/
mkfontdir
xset +fp ~/local/lib/X11/fonts   (put this last line also in ~/.xinitrc)
```

Now you can have a look at say the 6x13 font with the command

```
xfd -fn `misc-fixed-medium-r-semicondensed--13-120-75-75-c-60-iso10646-1`
```

If you want to have short names for the Unicode fonts, you can also append the fonts.alias file to that in the directory where you install the fonts, call "mkfontdir" and "xset fp rehash" again, and then you can also write

```
xfd -fn 6x13U
```

Note: If you use an old version of xfontsel, you might notice that it treats every font that contains characters >0x00ff as a Japanese JIS font and therefore selects inappropriate sample characters for display of ISO 10646-1 fonts. An updated xfontsel version with this bug fixed comes with XFree86 4.0 / X11R6.8 or newer.

If you use the Exceed X server on Microsoft Windows, then you will have to convert the BDF files into Microsoft FON files using the
"Compile Fonts" function of Exceed xconfig. See the file exceed.txt for more information.

There is one significant efficiency problem that X11R6 has with the sparsely populated ISO10646-1 fonts. X11 transmits and allocates 12 bytes with the XFontStruct data structure for the difference between the lowest and the highest code value found in a font, no matter whether the code positions in between are used for characters or not. Even a tiny font that contains only two glyphs at positions 0x0000 and 0xffff causes 12 bytes * 65534 codes = 786 kbytes to be requested and stored by the client. Since all the ISO10646-1 BDF files provided in this package contain characters in the U+00xx (ASCII) and U+ffxx (ligatures, etc.) range, all of them would result in 786 kbyte large XCharStruct arrays in the per_char array of the corresponding XFontStruct (even for CharCell fonts!) when loaded by an X client. Until this problem is fixed by extending the X11 font protocol and implementation, non-CJK ISO10646-1 fonts that lack the (anyway not very interesting) characters above U+31FF seem to be the best compromise. The bdftruncate.pl program in this package can be used to deactivate any glyphs above a threshold code value in BDF files. This way, we get relatively memory-economic ISO10646-1 fonts that cause "only" 150 kbyte large XCharStruct arrays to be allocated. The deactivated glyphs are still present in the BDF files, but with an encoding value of -1 that causes them to be ignored.

The ISO10646-1 fonts can not only be used directly by Unicode aware software, they can also be used to create any 8-bit font. The ucs2any.pl Perl script converts a ISO10646-1 BDF font into a BDF font file with some different encoding. For instance the command

```
perl ucs2any.pl 6x13.bdf MAPPINGS/8859-7.TXT ISO8859-7
```

will generate the file 6x13-ISO8859-7.bdf according to the 8859-7.TXT Latin/Greek mapping table, which available from <ftp://ftpunicode.org/Public/MAPPINGS/>. [The shell script ./map_fonts automatically generates a subdirectory derived-fonts/ with many *.bdf and *.pcf.gz 8-bit versions of all the -misc-fixed-*.-iso10646-1 fonts.]

When you do a "make" in the submission/ subdirectory as suggested in the installation instructions above, this will generate exactly the set of fonts that have been submitted to the XFree86 project for inclusion into XFree86 4.0. These consists of all the ISO10646-1 fonts processed with "bdftruncate.pl U+3200" plus a selected set of derived 8-bit fonts generated with ucs2any.pl.

Every font comes with a *.repertoire-utf8 file that lists all the characters in this font.
CONTRIBUTING
-------------

If you want to help me in extending or improving the fonts, or if you want to start your own ISO 10646-1 font project, you will have to edit BDF font files. This is most comfortably done with the gbdfed font editor (version 1.3 or higher), which is available from

http://crl.nmsu.edu/~mleisher/gbdfed.html

Once you are familiar with gbdfed, you will notice that it is no problem to design up to 100 nice characters per hour (even more if only placing accents is involved).

Information about other X11 font tools and Unicode fonts for X11 in general can be found on

http://www.cl.cam.ac.uk/~mgk25/ucs-fonts.html

The latest version of this package is available from

http://www.cl.cam.ac.uk/~mgk25/download/ucs-fonts.tar.gz

If you want to contribute, then get the very latest version of this package, check which glyphs are still missing or inappropriate for your needs, and send me whatever you had the time to add and fix. Just email me the extended BDF-files back, or even better, send me a patch file of what you changed. The best way of preparing a patch file is

./touch_id newfile.bdf
diff -d -u -F STARTCHAR oldfile.bdf newfile.bdf >file.diff

which ensures that the patch file preserves information about which exact version you worked on and what character each "hunk" changes.

I will try to update this packet on a daily basis. By sending me extensions to these fonts, you agree that the resulting improved font files will remain in the public domain for everyone's free use. Always make sure to load the very latest version of the package immediately before your start, and send me your results as soon as you are done, in order to avoid revision overlaps with other contributors.

Please try to be careful with the glyphs you generate:

- Always look first at existing similar characters in order to preserve a consistent look and feel for the entire font and
within the font family. For block graphics characters and geometric symbols, take care of correct alignment.

- Read issues.txt, which contains some design hints for certain characters.

- All characters of CharCell (C) fonts must strictly fit into the pixel matrix and absolutely no out-of-box ink is allowed.

- The character cells will be displayed directly next to each other, without any additional pixels in between. Therefore, always make sure that at least the rightmost pixel column remains white, as otherwise letters will stick together, except of course for characters -- like Arabic or block graphics -- that are supposed to stick together.

- Place accents as low as possible on the Latin characters.

- Try to keep the shape of accents consistent among each other and with the combining characters in the U+03xx range.

- Use gbdfed only to edit the BDF file directly and do not import the font that you want to edit from the X server. Use gbdfed 1.3 or higher.

- The glyph names should be the Adobe names for Unicode characters defined at


  which gbdfed can set automatically. To make the Edit/Rename Glyphs/Adobe Names function work, you have to download the file

  http://www.adobe.com/devnet/opentype/archives/glyphlist.txt

  and configure its location either in Edit/Preferences/Editing Options/Adobe Glyph List, or as "adobe_name_file" in "~/.gbdfed".

- Be careful to not change the FONTBOUNDINGBOX box accidentally in a patch.

You should have a copy of the ISO 10646 standard

ISO/IEC 10646:2003, Information technology -- Universal Multiple-Octet Coded Character Set (UCS),
http://standards.iso.org/ittf/PubliclyAvailableStandards/
and/or the Unicode 5.0 book:


All these fonts are from time to time resubmitted to the X.Org project, XFree86 (they have been in there since XFree86 4.0), and to other X server developers for inclusion into their normal X11 distributions.

Starting with XFree86 4.0, xterm has included UTF-8 support. This version is also available from

http://dickey.his.com/xterm/xterm.html

Please make the developer of your favourite software aware of the UTF-8 definition in RFC 2279 and of the existence of this font collection. For more information on how to use UTF-8, please check out

http://www.cl.cam.ac.uk/~mgk25/unicode.html

where you will also find information on joining the linux-utf8@nl.linux.org mailing list.

A number of UTF-8 example text files can be found in the examples/ subdirectory or on

http://www.cl.cam.ac.uk/~mgk25/ucs/examples/

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

#
>Name: ISO/IEC 8859-14:1998 to Unicode
>Unicode version: 3.0
>Table version: 1.0
>Table format: Format A
>Date: 1999 July 27
>Authors: Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
>Ken Whistler <kenw@sybase.com>
#
>Copyright (c) 1998 - 1999 Unicode, Inc. All Rights reserved.
#
This file contains the data the Unicode Consortium has on how ISO/IEC 8859-14:1998 characters map into Unicode. 

**Format:** Three tab-separated columns

- **Column #1** is the ISO/IEC 8859-14 code (in hex as 0xXX)
- **Column #2** is the Unicode (in hex as 0xXXXX)
- **Column #3** is the Unicode name (follows a comment sign, '#')

The entries are in ISO/IEC 8859-14 order.

**Updated versions of this file may be found in:**
<ftp://ftp.unicode.org/Public/MAPPINGS/>

**Please note that <errata@unicode.org> is an archival address; notices will be checked, but do not expect an immediate response.**

<table>
<thead>
<tr>
<th>Code</th>
<th>Unicode</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x00</td>
<td>0x0000</td>
<td>#NULL</td>
</tr>
<tr>
<td>0x01</td>
<td>0x0001</td>
<td>#START OF HEADING</td>
</tr>
<tr>
<td>0x02</td>
<td>0x0002</td>
<td>#START OF TEXT</td>
</tr>
<tr>
<td>0x03</td>
<td>0x0003</td>
<td>#END OF TEXT</td>
</tr>
<tr>
<td>0x04</td>
<td>0x0004</td>
<td>#END OF TRANSMISSION</td>
</tr>
<tr>
<td>0x05</td>
<td>0x0005</td>
<td>#ENQUIRY</td>
</tr>
<tr>
<td>0x06</td>
<td>0x0006</td>
<td>#ACKNOWLEDGE</td>
</tr>
<tr>
<td>0x07</td>
<td>0x0007</td>
<td>#BELL</td>
</tr>
<tr>
<td>0x08</td>
<td>0x0008</td>
<td>#BACKSPACE</td>
</tr>
<tr>
<td>0x09</td>
<td>0x0009</td>
<td>#HORIZONTAL TABULATION</td>
</tr>
<tr>
<td>0x0A</td>
<td>0x000A</td>
<td>#LINE FEED</td>
</tr>
<tr>
<td>0x0B</td>
<td>0x000B</td>
<td>#VERTICAL TABULATION</td>
</tr>
<tr>
<td>0x0C</td>
<td>0x000C</td>
<td>#FORM FEED</td>
</tr>
<tr>
<td>0x0D</td>
<td>0x000D</td>
<td>#CARRIAGE RETURN</td>
</tr>
<tr>
<td>0x0E</td>
<td>0x000E</td>
<td>#SHIFT OUT</td>
</tr>
</tbody>
</table>
0x0F\x000F##SHIFT IN
0x10\x0010##DATA LINK ESCAPE
0x11\x0011##DEVICE CONTROL ONE
0x12\x0012##DEVICE CONTROL TWO
0x13\x0013##DEVICE CONTROL THREE
0x14\x0014##DEVICE CONTROL FOUR
0x15\x0015##NEGATIVE ACKNOWLEDGE
0x16\x0016##SYNCHRONOUS IDLE
0x17\x0017##END OF TRANSMISSION BLOCK
0x18\x0018##CANCEL
0x19\x0019##END OF MEDIUM
0x1A\x001A##SUBSTITUTE
0x1B\x001B##ESCAPE
0x1C\x001C##FILE SEPARATOR
0x1D\x001D##GROUP SEPARATOR
0x1E\x001E##RECORD SEPARATOR
0x1F\x001F##UNIT SEPARATOR
0x20\x0020##SPACE
0x21\x0021##EXCLAMATION MARK
0x22\x0022##QUOTATION MARK
0x23\x0023##NUMBER SIGN
0x24\x0024##DOLLAR SIGN
0x25\x0025##PERCENT SIGN
0x26\x0026##AMPERSAND
0x27\x0027##APOSTROPHE
0x28\x0028##LEFT PARENTHESIS
0x29\x0029##RIGHT PARENTHESIS
0x2A\x002A##ASTERISK
0x2B\x002B##PLUS SIGN
0x2C\x002C##COMMA
0x2D\x002D##HYPHEN-MINUS
0x2E\x002E##FULL STOP
0x2F\x002F##SOLIDUS
0x30\x0030##DIGIT ZERO
0x31\x0031##DIGIT ONE
0x32\x0032##DIGIT TWO
0x33\x0033##DIGIT THREE
0x34\x0034##DIGIT FOUR
0x35\x0035##DIGIT FIVE
0x36\x0036##DIGIT SIX
0x37\x0037##DIGIT SEVEN
0x38\x0038##DIGIT EIGHT
0x39\x0039##DIGIT NINE
0x3A\x003A##COLON
0x3B\x003B##SEMICOLON
0x3C\x003C##LESS-THAN SIGN
0x3D\x003D##EQUALS SIGN
0x3E\x003E##GREATER-THAN SIGN
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31177
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

%global fontname ucs-miscfixed
%global fontconf 66-%{fontname}.conf

Name: %{fontname}-fonts
Version: 0.3
Release: 11%{?dist}
License: Public Domain
URL: http://www.cl.cam.ac.uk/~mgk25/ucs-fonts.html
Source0: http://www.cl.cam.ac.uk/~mgk25/download/ucs-fonts.tar.gz
Source1: 66-ucs-miscfixed.conf
BuildRoot: %{_tmppath}/%{name}-%{version}-%{release}-root-%{__id_u} -n
BuildArch: noarch
Group: User Interface/X
Summary: Selected set of bitmap fonts
BuildRequires: fontpackages-devel
BuildRequires: xorg-x11-font-utils

description
The usc-fixed-fonts package provides bitmap fonts for
locations such as terminals.

%prep
%setup -q -c
rm helvR12.bdf

%build
rm -rf $RPM_BUILD_ROOT
install -m 0755 -d %{buildroot} %{_fontdir}
install -m 0644 -p *.bdf %{buildroot} %{_fontdir}
install -m 0755 -d %{buildroot} %{_fontconfig_templatedir} \%{buildroot} %{_fontconfig_confdir}
install -m 0644 -p %{SOURCE1} \%{buildroot} %{_fontconfig_templatedir}/%{fontconf}
In -s %{_fontconfig_templatedir}/%{fontconf} \
%{buildroot}%{_fontconfig_confdir}/%{fontconf}

%clean
rm -rf $RPM_BUILD_ROOT

%_font_pkg -f %{fontconf} *.bdf

%doc README

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 0.3-11
  - Mass rebuild 2013-12-27

* Fri Feb 15 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3-10
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Sun Jul 22 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3-9
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Sun Feb 12 2012 Pravin Satpute <psatpute@redhat.com> - 0.3-8
  - removed gzip
  - upstream new source, #597403

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3-7
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Mon Feb 07 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3-6
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Wed Nov 25 2009 Pravin Satpute <psatpute@redhat.com> - 0.3-5
  - removed \ from description

* Thu Oct 22 2009 Pravin Satpute <psatpute@redhat.com> - 0.3-4
  - changed conf file priority

* Thu Sep 29 2009 Pravin Satpute <psatpute@redhat.com> - 0.3-3
  - modified license field

* Thu Sep 29 2009 Pravin Satpute <psatpute@redhat.com> - 0.3-2
  - updated as per package review suggestion, bug 526204

* Thu Sep 29 2009 Pravin Satpute <psatpute@redhat.com> - 0.3-1
  - initial packaging
  - these fonts was there in bitmap-fonts package previously, packaging it separate as per merger review suggestion.
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-miscfixed-fonts.spec
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT $Id: 6x13O.bdf,v 1.7 2002-08-26 18:05:49+01 mgk25 Rel $
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
FONT -Misc-Fixed-Medium-O-SemiCondensed-13-120-75-75-C-60-ISO10646-1
SIZE 12 75 75
FONTBOUNDINGBOX 6 13 0 -2
STARTPROPERTIES 22
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "O"
SETWIDTH_NAME "SemiCondensed"
ADDSTYLE_NAME ""
PIXEL_SIZE 13
POINT_SIZE 120
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 60
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
DEFAULT_CHAR 0
FONT_DESCENT 2
FONT_ASCENT 11
COPYRIGHT "Public domain font. Share and enjoy."
_XMBDFED_INFO "Edited with xmbfed 4.3."
CAP_HEIGHT 9
X_HEIGHT 6
ENDPROPERTIES
CHARS 770
STARTCHAR char0
ENCODING 0
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
54
00
44
00
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31201
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31203
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31220
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31223
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31233
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31249
70
00
00
ENDCHAR
STARTCHAR Ccircumflex
ENCODING 264
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
18
24
00
38
44
40
80
80
88
70
00
00
ENDCHAR
STARTCHAR ccircumflex
ENCODING 265
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
18
24
00
38
44
40
80
88
70
00
00
ENDCHAR
STARTCHAR Cdotaccent
ENCODING 266
SWIDTH 480 0
DWIDTH 6 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31279
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31284
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31291
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

31299
STARTCHAR uring
ENCODING 367
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
10
28
10
00
44
44
44
44
88
98
68
00
00
ENDCHAR
STARTCHAR Uhungarumlaut
ENCODING 368
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
24
48
00
44
44
44
88
88
88
70
00
00
ENDCHAR
STARTCHAR uhungarumlaut
ENCODING 369
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
STARTCHAR Zdotaccent
ENCODING 379
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
10
10
00
7C
04
08
30
40
80
F8
00
00
00
ENDCHAR
STARTCHAR zdotaccent
ENCODING 380
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
10
10
00
7C
08
30
40
80
F8
00
00
00
ENDCHAR
STARTCHAR Zcaron
ENCODING 381
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
24
STARTCHAR uni0216
ENCODING 534
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
38
44
00
44
44
44
88
88
70
00
00
00
ENDCHAR
STARTCHAR uni0217
ENCODING 535
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
38
44
00
44
44
44
88
98
68
00
00
00
ENDCHAR
STARTCHAR Scommaaccent
ENCODING 536
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
STARTCHAR breve
ENCODING 728
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
44
38
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00
ENDCHAR
STARTCHAR dotaccent
ENCODING 729
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR ring
ENCODING 730
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
10
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31334
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31362
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31374
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31378
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31404
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31412
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31432
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31446
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31458
20
00
00
ENDCHAR
STARTCHAR threeeighths
ENCODING 8540
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
30
08
30
10
68
14
18
28
10
00
00
ENDCHAR
STARTCHAR fiveeighths
ENCODING 8541
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
38
20
70
10
68
14
18
28
10
00
00
ENDCHAR
STARTCHAR seveneighths
ENCODING 8542
SWIDTH 480 0
DWIDTH 6 0
STARTCHAR minus
ENCODING 8722
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
00
78
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR notequal
ENCODING 8800
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
00
00
00
00
04
7C
20
F8
80
00
00
00
ENDCHAR
STARTCHAR lessequal
ENCODING 8804
SWIDTH 480 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
00
No license file was found, but licenses were detected in source scan.

# Name: ISO 8859-2:1999 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Ken Whistler <kenw@sybase.com>
#
# Copyright (c) 1991-1999 Unicode, Inc. All Rights reserved.
# This file is provided as-is by Unicode, Inc. (The Unicode Consortium).
# No claims are made as to fitness for any particular purpose. No
# warranties of any kind are expressed or implied. The recipient
#agrees to determine applicability of information provided. If this
#file has been provided on optical media by Unicode, Inc., the sole
#remedy for any claim will be exchange of defective media within 90
#days of receipt.
#
#Unicode, Inc. hereby grants the right to freely use the information
#supplied in this file in the creation of products supporting the
#Unicode Standard, and to make copies of this file in any form for
#internal or external distribution as long as this notice remains
#attached.
#
#General notes:
#
#This table contains the data the Unicode Consortium has on how
#ISO/IEC 8859-2:1999 characters map into Unicode.
#
#Format: Three tab-separated columns
#Column #1 is the ISO/IEC 8859-2 code (in hex as 0xXX)
#Column #2 is the Unicode (in hex as 0xXXXX)
#Column #3 the Unicode name (follows a comment sign, '#')
#
#The entries are in ISO/IEC 8859-2 order.
#
#Version history
#1.0 version updates 0.1 version by adding mappings for all
#control characters.
#
#Updated versions of this file may be found in:
#<ftp://ftp.unicode.org/Public/MAPPINGS/>
#
#Any comments or problems, contact <errata@unicode.org>
#Please note that <errata@unicode.org> is an archival address;
#notices will be checked, but do not expect an immediate response.
#
<table>
<thead>
<tr>
<th>0x0000</th>
<th>0x0000</th>
<th>#NULL</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x0100</td>
<td>0x0001</td>
<td>#START OF HEADING</td>
</tr>
<tr>
<td>0x0200</td>
<td>0x0002</td>
<td>#START OF TEXT</td>
</tr>
<tr>
<td>0x0300</td>
<td>0x0003</td>
<td>#END OF TEXT</td>
</tr>
<tr>
<td>0x0400</td>
<td>0x0004</td>
<td>#END OF TRANSMISSION</td>
</tr>
<tr>
<td>0x0500</td>
<td>0x0005</td>
<td>#ENQUIRY</td>
</tr>
<tr>
<td>0x0600</td>
<td>0x0006</td>
<td>#ACKNOWLEDGE</td>
</tr>
<tr>
<td>0x0700</td>
<td>0x0007</td>
<td>#BELL</td>
</tr>
<tr>
<td>0x0800</td>
<td>0x0008</td>
<td>#BACKSPACE</td>
</tr>
<tr>
<td>0x0900</td>
<td>0x0009</td>
<td>#HORIZONTAL TABULATION</td>
</tr>
<tr>
<td>0x0A00</td>
<td>0x000A</td>
<td>#LINE FEED</td>
</tr>
<tr>
<td>0x0B00</td>
<td>0x000B</td>
<td>#VERTICAL TABULATION</td>
</tr>
<tr>
<td>0x0C00</td>
<td>0x000C</td>
<td>#FORM FEED</td>
</tr>
<tr>
<td>0x0D00</td>
<td>0x000D</td>
<td>#CARRIAGE RETURN</td>
</tr>
</tbody>
</table>
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31507
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-2.TXT

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

STARTFONT 2.1
COMMENT "$Id: 8x13O.bdf,v 1.8 2006-01-05 20:31:45+00 mgk25 Rel $"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Medium-O-Normal--13-120-75-75-C-80-ISO10646-1
SIZE 13 78 78
FONTBOUNDINGBOX 8 13 0 -2
STARTPROPERTIES 22
FONTNAME_REGISTRY ""
FOUNDRY "Misc"
FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "O"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 13
POINT_SIZE 120
RESOLUTION_X 75
RESOLUTION_Y 75
SPACING "C"
AVERAGE_WIDTH 80
CHARSET_REGISTRY "ISO10646"
CHARSET_ENCODING "1"
DEFAULT_CHAR 0
FONT_DESCENT 2
FONT_ASCENT 11
COPYRIGHT "Public domain font. Share and enjoy,"
_XMBDFED_INFO "Edited with xmbfed 4.5."
CAP_HEIGHT 9
X_HEIGHT 6
ENDPROPERTIES
CHARS 1295
STARTCHAR char0
ENCODING 0
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
55
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0
30
40
80
FC
00
00
ENDCHAR
STARTCHAR three
ENCODING 51
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
7E
02
04
08
18
04
04
84
78
00
00
ENDCHAR
STARTCHAR four
ENCODING 52
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
02
06
0A
12
24
44
7E
08
08
00
00
ENDCHAR
STARTCHAR five
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31530
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31547
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31565
ENCODING 206
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
 00
 0C
 12
 00
 3E
 08
 08
 10
 10
 10
 7C
 00
 00
ENDCHAR
STARTCHAR Idieresis
ENCODING 207
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
 00
 22
 22
 00
 3E
 08
 08
 10
 10
 10
 7C
 00
 00
ENDCHAR
STARTCHAR Eth
ENCODING 208
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
 00
 00
 78
ENCODING 242
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
20
10
00
3C
42
42
84
84
78
00
00
ENDCHAR
STARTCHAR oacute
ENCODING 243
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
08
10
00
3C
42
42
84
84
78
00
00
ENDCHAR
STARTCHAR ocircumflex
ENCODING 244
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
18
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31585
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31602
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31610
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31624
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31625
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31631
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31639
BITMAP
00
24
18
00
7E
04
08
30
40
80
FC
00
00
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STARTCHAR zcaron
ENCODING 382
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DWIDTH 8 0
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BITMAP
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00
24
18
00
7E
04
18
20
40
FC
00
00
ENDCHAR
STARTCHAR longs
ENCODING 383
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
18
24
20
20
60
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31654
BITMAP
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00
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52
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57
51
A6
A8
A8
CE
00
00
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STARTCHAR uni01C6
ENCODING 454
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
15
12
10
37
51
52
A4
A8
6E
00
00
ENDCHAR
STARTCHAR uni01C7
ENCODING 455
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
47
41
41
41
41
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31675
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31695
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31715
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31716
02
02
ENDCHAR
STARTCHAR uni0271
ENCODING 625
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
00
00
76
49
49
92
92
82
02
0C
ENDCHAR
STARTCHAR uni0272
ENCODING 626
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
00
00
16
19
11
22
22
22
A0
40
ENDCHAR
STARTCHAR uni0273
ENCODING 627
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31730
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31735
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31739
ENCODING 668
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
00
00
42
42
7C
84
84
84
00
00
ENDCHAR
STARTCHAR uni029D
ENCODING 669
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
04
00
0C
04
04
0E
18
28
48
30
ENDCHAR
STARTCHAR uni029E
ENCODING 670
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31752
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31770
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31785
Omegatonos

iotadieresistonos

Alpha
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31788
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31792
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31793
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31797
ENCODING 962
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
00
3C
42
80
80
80
78
04
18
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STARTCHAR sigma
ENCODING 963
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BITMAP
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00
00
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00
00
3E
48
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84
88
70
00
00
ENDCHAR
STARTCHAR tau
ENCODING 964
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
20
20
ENDCHAR
STARTCHAR chi
ENCODING 967
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
00
00
42
44
48
30
30
48
84
84
ENDCHAR
STARTCHAR psi
ENCODING 968
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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00
00
00
00
49
49
49
92
92
7C
10
10
ENDCHAR
STARTCHAR omega
ENCODING 969
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  31812
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
ENCODING 1065
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
49
49
49
49
49
92
92
92
FE
02
02
ENDCHAR
STARTCHAR afii10044
ENCODING 1066
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
70
10
10
10
1C
22
22
22
3C
00
00
ENDCHAR
STARTCHAR afii10045
ENCODING 1067
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
42
BITMAP
00
00
36
41
41
41
41
92
92
92
6C
00
00
ENDCHAR
STARTCHAR uni0461
ENCODING 1121
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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00
00
00
00
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49
92
92
6C
00
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STARTCHAR afii10146
ENCODING 1122
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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7C
10
10
1C
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31880
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31887
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31900
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31914
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31915
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31927
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31950
30
08
84
78
00
00
ENDCHAR
STARTCHAR uni1E62
ENCODING 7778
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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3C
42
40
40
38
04
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84
78
00
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ENDCHAR
STARTCHAR uni1E63
ENCODING 7779
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
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00
00
00
00
00
3C
42
30
08
84
78
00
30
ENDCHAR
STARTCHAR uni1E64
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31982
ENCODING 8211
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
00
00
00
00
7E
00
00
00
00
00
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR emdash
ENCODING 8212
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
00
00
00
00
FE
00
00
00
00
00
00
00
00
ENDCHAR
STARTCHAR afii00208
ENCODING 8213
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 31992
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  32002
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32032
| Less than or equal | Greater than or equal | Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32040 |
|-------------------|----------------------|==================================================================================|
| 00                | 00                   |                                                                                 |
| ENDCHAR           | STARTCHAR less than or equal | ENCODING 8804                                                                  |
| SWIDTH 568 0      | DWIDTH 8 0           |                                                                                 |
| BBX 8 13 0 -2     | BITMAP               |                                                                                 |
| 00                | 00                   |                                                                                 |
| 00                | 00                   |                                                                                 |
| 00                | 00                   |                                                                                 |
| 07                | 18                   |                                                                                 |
| 60                | 10                   |                                                                                 |
| 0E                | 00                   |                                                                                 |
| FE                | 00                   |                                                                                 |
| 00                | 00                   |                                                                                 |
| ENDCHAR           | STARTCHAR greater than or equal | ENCODING 8805                                                                  |
| SWIDTH 568 0      | DWIDTH 8 0           |                                                                                 |
| BBX 8 13 0 -2     | BITMAP               |                                                                                 |
| 00                | 00                   |                                                                                 |
| 00                | 00                   |                                                                                 |
| 00                | 00                   |                                                                                 |
| 70                | 0C                   |                                                                                 |
| 03                | 1C                   |                                                                                 |
| E0                | 00                   |                                                                                 |
| FE                | 00                   |                                                                                 |
| 00                | 00                   |                                                                                 |
| ENDCHAR           | STARTCHAR uni2409   | ENCODING 9225                                                                  |
| SWIDTH 568 0      | DWIDTH 8 0           |                                                                                 |
| BBX 8 13 0 -2     |                                                                                 |
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
ENCODING 65533
SWIDTH 568 0
DWIDTH 8 0
BBX 8 13 0 -2
BITMAP
00
00
3E
63
5D
7B
77
EE
FE
EE
7C
00
00
ENDCHAR
ENDFONT

Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqlws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/8x13O.bdf
No license file was found, but licenses were detected in source scan.

STARTFONT 2.1
COMMENT "$Id: 10x20.bdf,v 1.91 2009-04-06 19:10:19+01 mgk25 Rel 5"
COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
FONT -Misc-Fixed-Medium-R-Normal--20-200-75-75-C-100-ISO10646-1
SIZE 20 75 75
FONTBOUNDINGBOX 10 20 0 -4
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FAMILY_NAME "Fixed"
WEIGHT_NAME "Medium"
SLANT "R"
SETWIDTH_NAME "Normal"
ADD_STYLE_NAME ""
PIXEL_SIZE 20
POINT_SIZE 200
RESOLUTION_X 75
RESOLUTION_Y 75
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AVERAGE_WIDTH 100
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ENCODING 100
SWIDTH 480 0
DWIDTH 10 0
BBX 10 20 0 -4
BITMAP
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0000
0000
0180
0180
0180
0180
0180
0180
1D80
3380
6180
6180
6180
6180
3380
1D80
0000
0000
0000
0000
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STARTCHAR e
ENCODING 101
SWIDTH 480 0
DWIDTH 10 0
BBX 10 20 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
1E00
3300
6180
7F80
6000
6000
3180
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32093
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
32099
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32118
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32129
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32135
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32143
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32149
3300
1E00
ENDCHAR
STARTCHAR thorn
ENCODING 254
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DWIDTH 10 0
BBX 10 20 0 -4
BITMAP
0000
0000
0000
3000
3000
3000
3000
3000
3000
3000
3000
3000
3000
3000
3E00
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3000
3000
3000
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3000
3E00
3300
3300
3300
3300
3300
6180
6180
6180
6180
6180
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32157
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32163
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32176
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32184
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32208
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32212
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  32247
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32256
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32270
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  32275
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Opening characters

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Closing characters

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Opening characters

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Closing characters
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32364
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32387
STARTCHAR uni02A5
ENCODING 677
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DWIDTH 10 0
BBX 10 20 0 -4
BITMAP
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0000
0000
1800
1800
1800
1800
1800
1800
7FC0
D8C0
D980
DB00
DE80
DD40
D940
7F80
0200
0200
0000
0000
ENDCHAR
STARTCHAR uni02A6
ENCODING 678
SWIDTH 480 0
DWIDTH 10 0
BBX 10 20 0 -4
BITMAP
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0000
0000
0000
0000
6000
6000
6000
6000
FF00
6D80
6C00
6600
6300
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6180
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<th>C</th>
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<th>E</th>
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32400
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  32411
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32417
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32431
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  32434
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32439
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32447
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32487
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  32508
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32524
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32592
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32818
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32822
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32853
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32874
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

32884
STARTCHAR uni068A
ENCODING 1674
SWIDTH 480 0
DWIDTH 10 0
BBX 10 20 0 -4
BITMAP
0000
0000
0000
0000
0000
0000
0C00
0E00
0700
0300
0300
3F00
3E00
0000
0C00
0C00
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni068B
ENCODING 1675
SWIDTH 480 0
DWIDTH 10 0
BBX 10 20 0 -4
BITMAP
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1000
1000
1600
1A00
3C00
0000
0C00
0E00
0700
0300
0300
3F00
3E00
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  32898
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
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</thead>
<tbody>
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</tr>
</tbody>
</table>

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| ENCODING 1790 |
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| DWIDTH 10 0 |
| BBX 10 20 0 -4 |
| BITMAP |
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| 0000 |
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| 0000 |
| 0E00 |
| 1F00 |
| 1100 |
| 3F00 |
| 7F00 |
| 6000 |
| 6A00 |
| 6A00 |
| 6A00 |
| 6A00 |

| ENDCHAR |
| STARTCHAR uni06FF |
| ENCODING 1791 |
| SWIDTH 480 0 |
| DWIDTH 10 0 |
| BBX 10 20 0 -4 |
| BITMAP |
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| 0000 |
| 0400 |
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 32979
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

33057
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
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qDRQliws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/10x20.bdf

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

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COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
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**ENDCHAR**

**STARTCHAR uni02B8**

**ENCODING 696**

**SWIDTH 568 0**

**DWIDTH 8 0**

**BBX 8 13 0 -2**

**BITMAP**

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**ENDCHAR**

**STARTCHAR uni02B9**

**ENCODING 697**

**SWIDTH 568 0**

**DWIDTH 8 0**

**BBX 8 13 0 -2**

**BITMAP**

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**ENDCHAR**

**STARTCHAR** peseta

**ENCODING** 8359

**SWIDTH** 568 0

**DWIDTH** 8 0

**BBX** 8 13 0 -2

**BITMAP**

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**ENCODING** 8360

**SWIDTH** 568 0

**DWIDTH** 8 0

**BBX** 8 13 0 -2

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 35960
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 36022
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 36028
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  36059
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  36093
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36496
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qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/8x13.bdf
No license file was found, but licenses were detected in source scan.

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COMMENT $Id: 6x9.bdf,v 1.28 2006-01-05 20:03:17+00 mgk25 Rel $
COMMENT Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>
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SIZE 9 75 75
FONTBOUNDINGBOX 6 9 0 -2
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ENCODING 1043
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

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union

integral

uni222E
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BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  36860
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 36945
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* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/6x9.bdf

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

#
#Name: ISO/IEC 8859-9:1999 to Unicode
#Unicode version: 3.0
#Table version: 1.0
#Table format: Format A
#Date: 1999 July 27
#Authors: Ken Whistler <kenw@sybase.com>
#
#Copyright (c) 1991-1999 Unicode, Inc. All Rights reserved.
#
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#
#General notes:
#
#This table contains the data the Unicode Consortium has on how ISO/IEC 8859-9:1999 characters map into Unicode.
#
#Format: Three tab-separated columns
# Column #1 is the ISO/IEC 8859-9 code (in hex as 0XX)
# Column #2 is the Unicode (in hex as 0xxxxX)
# Column #3 the Unicode name (follows a comment sign, '#')
#
#The entries are in ISO/IEC 8859-9 order.
#
#ISO/IEC 8859-9 is also equivalent to ISO-IR-148.
#
#Version history
# 1.0 version updates 0.1 version by adding mappings for all control characters.
#
#Updated versions of this file may be found in:
#<ftp://ftp.unicode.org/Public/MAPPINGS/>
#
#Any comments or problems, contact <errata@unicode.org>
#Please note that <errata@unicode.org> is an archival address; notices will be checked, but do not expect an immediate response.
#
0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0A0x000A#LINE FEED
0x0B0x000B#VERTICAL TABULATION
0x0C0x000C#FORM FEED
0x0D0x000D#CARRIAGE RETURN
0x0E0x000E#SHIFT OUT
0x0F0x000F#SHIFT IN
0x010x0010#DATA LINK ESCAPE
0x0110x0011#DEVICE CONTROL ONE
0x0120x0012#DEVICE CONTROL TWO
0x0130x0013#DEVICE CONTROL THREE
0x0140x0014#DEVICE CONTROL FOUR
0x0150x0015#NEGATIVE ACKNOWLEDGE
0x0160x0016#SYNCHRONOUS IDLE
0x0170x0017#END OF TRANSMISSION BLOCK
0x0180x0018#CANCEL
0x0190x0019#END OF MEDIUM
0x01A0x001A#SUBSTITUTE
0x01B0x001B#ESCAPE
0x01C0x001C#FILE SEPARATOR
0x01D0x001D#GROUP SEPARATOR
0x01E0x001E#RECORD SEPARATOR
0x01Fx001F#UNIT SEPARATOR
0x2000x0020#SPACE
0x2100x0021#EXCLAMATION MARK
0x2200x0022#QUOTATION MARK
0x2300x0023#NUMBER SIGN
0x2400x0024#DOLLAR SIGN
0x2500x0025#PERCENT SIGN
0x2600x0026#AMPERSAND
0x2700x0027#APOSTROPHE
0x2800x0028#LEFT PARENTHESIS
0x2900x0029#RIGHT PARENTHESIS
0x2A00x002A#ASTERISK
0x2B00x002B#PLUS SIGN
0x2C00x002C#COMMA
0x2D00x002D#HYPHEN-MINUS
0x2E00x002E#FULL STOP
0x2F00x002F#SOLIDUS
0x3000x0030#DIGIT ZERO
0x3100x0031#DIGIT ONE
0x3200x0032#DIGIT TWO
0x3300x0033#DIGIT THREE
0x3400x0034#DIGIT FOUR
0x3500x0035#DIGIT FIVE
0x3600x0036#DIGIT SIX
0x3700x0037#DIGIT SEVEN
0x3800x0038#DIGIT EIGHT
0x3900x0039#DIGIT NINE
0x3A00x003A#COLON
0x3B00x003B#SEMICOLON
0x3C00x003C#LESS-THAN SIGN
0x3D00x003D#EQUALS SIGN
0x3E00x003E#GREATER-THAN SIGN
0x3F00x003F#QUESTION MARK
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 36958
# Name: ISO 8859-7:2003 to Unicode
# Unicode version: 4.0
# Table version: 2.0
# Table format: Format A
# Date: 2003-Nov-12
# Authors: Ken Whistler <kenw@sybase.com>

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# General notes:

# This table contains the data the Unicode Consortium has on how
# ISO 8859-7:2003 characters map into Unicode.

# ISO 8859-7:1987 is equivalent to ISO-IR-126, ELOT 928,
# and ECMA 118. ISO 8859-7:2003 adds two currency signs
# and one other character not in the earlier standard.

# Format: Three tab-separated columns
# Column #1 is the ISO 8859-7 code (in hex as 0xXX)
# Column #2 is the Unicode (in hex as 0xXXXX)
# Column #3 the Unicode name (follows a comment sign, '#')

# The entries are in ISO 8859-7 order.

# Version history
# 1.0 version updates 0.1 version by adding mappings for all
#control characters.
#Remap 0xA1 to U+2018 (instead of 0x02BD) to match text of 8859-7
#Remap 0xA2 to U+2019 (instead of 0x02BC) to match text of 8859-7
#
#2.0 version updates 1.0 version by adding mappings for the
#three newly added characters 0xA4, 0xA5, 0xAA.
#
#Updated versions of this file may be found in:
#<http://www.unicode.org/Public/MAPPINGS/>
#
#Any comments or problems, contact the Unicode Consortium at:
# <http://www.unicode.org/reporting.html>
#
0x000x0000#NULL
0x010x0001#START OF HEADING
0x020x0002#START OF TEXT
0x030x0003#END OF TEXT
0x040x0004#END OF TRANSMISSION
0x050x0005#ENQUIRY
0x060x0006#ACKNOWLEDGE
0x070x0007#BELL
0x080x0008#BACKSPACE
0x090x0009#HORIZONTAL TABULATION
0x0A0x000A#LINE FEED
0x0B0x000B#VERTICAL TABULATION
0x0C0x000C#FORM FEED
0x0D0x000D#CARRIAGE RETURN
0x0E0x000E#SHIFT OUT
0x0F0x000F#SHIFT IN
0x100x0010#DATA LINK ESCAPE
0x110x0011#DEVICE CONTROL ONE
0x120x0012#DEVICE CONTROL TWO
0x130x0013#DEVICE CONTROL THREE
0x140x0014#DEVICE CONTROL FOUR
0x150x0015#NEGATIVE ACKNOWLEDGE
0x160x0016#SYNCHRONOUS IDLE
0x170x0017#END OF TRANSMISSION BLOCK
0x180x0018#CANCEL
0x190x0019#END OF MEDIUM
0x1A0x001A#SUBSTITUTE
0x1B0x001B#ESCAPE
0x1C0x001C#FILE SEPARATOR
0x1D0x001D#GROUP SEPARATOR
0x1E0x001E#RECORD SEPARATOR
0x1F0x001F#UNIT SEPARATOR
0x200x0020#SPACE
0x210x0021#EXCLAMATION MARK
0x220x0022#QUOTATION MARK
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-
qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-7.TXT
No license file was found, but licenses were detected in source scan.

#   
#   #Name:    ISO/IEC 8859-15:1999 to Unicode
#   #Unicode version: 3.0
#   #Table version: 1.0
#   #Table format: Format A
#   #Date:    1999 July 27
#   #Authors: Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>  
#     Ken Whistler <kenw@sybase.com>
#   
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General notes:

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Format: Three tab-separated columns
Column #1 is the ISO/IEC 8859-15 code (in hex as 0xXX)
Column #2 is the Unicode (in hex as 0xXXXX)
Column #3 the Unicode name (follows a comment sign, '#')

The entries are in ISO/IEC 8859-15 order.

Updated versions of this file may be found in:
<ftp://ftp.unicode.org/Public/MAPPINGS/>

Any comments or problems, contact errata@unicode.org
Please note that errata@unicode.org is an archival address; notices will be checked, but do not expect an immediate response.

<table>
<thead>
<tr>
<th>Code</th>
<th>Unicode</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x00</td>
<td>0x0000</td>
<td>NULL</td>
</tr>
<tr>
<td>0x01</td>
<td>0x0001</td>
<td>START OF HEADING</td>
</tr>
<tr>
<td>0x02</td>
<td>0x0002</td>
<td>START OF TEXT</td>
</tr>
<tr>
<td>0x03</td>
<td>0x0003</td>
<td>END OF TEXT</td>
</tr>
<tr>
<td>0x04</td>
<td>0x0004</td>
<td>END OF TRANSMISSION</td>
</tr>
<tr>
<td>0x05</td>
<td>0x0005</td>
<td>ENQUIRY</td>
</tr>
<tr>
<td>0x06</td>
<td>0x0006</td>
<td>ACKNOWLEDGE</td>
</tr>
<tr>
<td>0x07</td>
<td>0x0007</td>
<td>BELL</td>
</tr>
<tr>
<td>0x08</td>
<td>0x0008</td>
<td>BACKSPACE</td>
</tr>
<tr>
<td>0x09</td>
<td>0x0009</td>
<td>HORIZONTAL TABULATION</td>
</tr>
<tr>
<td>0xA0</td>
<td>0x00A0</td>
<td>LINE FEED</td>
</tr>
<tr>
<td>0xB0</td>
<td>0x00B0</td>
<td>VERTICAL TABULATION</td>
</tr>
<tr>
<td>0xC0</td>
<td>0x00C0</td>
<td>FORM FEED</td>
</tr>
<tr>
<td>0xD0</td>
<td>0x00D0</td>
<td>CARRIAGE RETURN</td>
</tr>
<tr>
<td>0xE0</td>
<td>0x00E0</td>
<td>SHIFT OUT</td>
</tr>
<tr>
<td>0xF0</td>
<td>0x00F0</td>
<td>SHIFT IN</td>
</tr>
<tr>
<td>100</td>
<td>0x100</td>
<td>DATA LINK ESCAPE</td>
</tr>
<tr>
<td>110</td>
<td>0x110</td>
<td>DEVICE CONTROL ONE</td>
</tr>
</tbody>
</table>
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  36970
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

Found in path(s):
No license file was found, but licenses were detected in source scan.

# Name: ISO 8859-6:1999 to Unicode
# Unicode version: 3.0
# Table version: 1.0
# Table format: Format A
# Date: 1999 July 27
# Authors: Ken Whistler <kenw@sybase.com>
#
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#
# General notes:
#
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# ISO/IEC 8859-6:1999 characters map into Unicode.
#
# Format: Three tab-separated columns
# Column #1 is the ISO/IEC 8859-6 code (in hex as 0xXX)
# Column #2 is the Unicode (in hex as 0xXXXX)
# Column #3 the Unicode name (follows a comment sign, '#')
#
# The entries are in ISO/IEC 8859-6 order.
#
# Version history
# 1.0 version updates 0.1 version by adding mappings for all
# control characters.
# 0x30..0x39 remapped to the ASCII digits (U+0030..U+0039) instead
# of the Arabic digits (U+0660..U+0669).
#
# Updated versions of this file may be found in:
# <ftp://ftp.unicode.org/Public/MAPPINGS/>
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-6.TXT

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

#
#Name: ISO/IEC 8859-16:2001 to Unicode
#Unicode version: 3.0
#Table version: 1.0
#Table format: Format A
#Date: 2001 July 26
#Authors: Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>:
#
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# General notes:

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# Format: Three tab-separated columns
# Column #1 is the ISO/IEC 8859-16 code (in hex as 0xXX)
# Column #2 is the Unicode (in hex as 0xXXXX)
# Column #3 the Unicode name (follows a comment sign, '#')

# The entries are in ISO/IEC 8859-16 order.

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<table>
<thead>
<tr>
<th>Code</th>
<th>Unicode</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x00</td>
<td>0x0000</td>
<td>NULL</td>
</tr>
<tr>
<td>0x01</td>
<td>0x0001</td>
<td>START OF HEADING</td>
</tr>
<tr>
<td>0x02</td>
<td>0x0002</td>
<td>START OF TEXT</td>
</tr>
<tr>
<td>0x03</td>
<td>0x0003</td>
<td>END OF TEXT</td>
</tr>
<tr>
<td>0x04</td>
<td>0x0004</td>
<td>END OF TRANSMISSION</td>
</tr>
<tr>
<td>0x05</td>
<td>0x0005</td>
<td>ENQUIRY</td>
</tr>
<tr>
<td>0x06</td>
<td>0x0006</td>
<td>ACKNOWLEDGE</td>
</tr>
<tr>
<td>0x07</td>
<td>0x0007</td>
<td>BELL</td>
</tr>
<tr>
<td>0x08</td>
<td>0x0008</td>
<td>BACKSPACE</td>
</tr>
<tr>
<td>0x09</td>
<td>0x0009</td>
<td>HORIZONTAL TABULATION</td>
</tr>
<tr>
<td>0x0A</td>
<td>0x000A</td>
<td>LINE FEED</td>
</tr>
<tr>
<td>0x0B</td>
<td>0x000B</td>
<td>VERTICAL TABULATION</td>
</tr>
<tr>
<td>0x0C</td>
<td>0x000C</td>
<td>FORM FEED</td>
</tr>
<tr>
<td>0x0D</td>
<td>0x000D</td>
<td>CARRIAGE RETURN</td>
</tr>
<tr>
<td>0x0E</td>
<td>0x000E</td>
<td>SHIFT OUT</td>
</tr>
<tr>
<td>0x0F</td>
<td>0x000F</td>
<td>SHIFT IN</td>
</tr>
<tr>
<td>0x10</td>
<td>0x0010</td>
<td>DATA LINK ESCAPE</td>
</tr>
<tr>
<td>0x11</td>
<td>0x0011</td>
<td>DEVICE CONTROL ONE</td>
</tr>
<tr>
<td>0x12</td>
<td>0x0012</td>
<td>DEVICE CONTROL TWO</td>
</tr>
<tr>
<td>0x13</td>
<td>0x0013</td>
<td>DEVICE CONTROL THREE</td>
</tr>
<tr>
<td>0x14</td>
<td>0x0014</td>
<td>DEVICE CONTROL FOUR</td>
</tr>
<tr>
<td>0x15</td>
<td>0x0015</td>
<td>NEGATIVE ACKNOWLEDGE</td>
</tr>
<tr>
<td>0x16</td>
<td>0x0016</td>
<td>SYNCHRONOUS IDLE</td>
</tr>
</tbody>
</table>
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  36980
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Found in path(s):
* /opt/cola/permits/1145074727_1619428871.06/0/ucs-miscfixed-fonts-0.3-11.el7-1.src.rpm-cosi-expand-archive-qDRqIiws/ucs-fonts.tar.gz-cosi-expand-archive-V9WuXKHE/MAPPINGS/8859-16.TXT

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STARTFONT 2.1
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 36989
80
80
ENCODING 48
SWIDTH 960 0
WIDTH 7 0
BBX 14 0 -2
BITMAP
00
00
30
48
84
84
84
84
84
84
84
48
30
00
00
ENCODING 49
SWIDTH 960 0
WIDTH 7 0
BBX 14 0 -2
BITMAP
00
00
10
30
50
10
10
10
10
10
10
7C
00
00
ENCODING 50
SWIDTH 960 0
STARTCHAR nine
ENCODING 57
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
78
84
84
84
84
8C
74
04
84
88
70
00
00
ENDCHAR
STARTCHAR colon
ENCODING 58
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
00
10
38
10
00
00
10
38
10
00
00
ENDCHAR
STARTCHAR semicolon
ENCODING 59
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37003
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37056
FC
00
30
00
00
ENDCHAR
STARTCHAR oslash
ENCODING 248
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
00
04
08
78
94
94
A4
A4
C4
78
80
80
ENDCHAR
STARTCHAR ugrave
ENCODING 249
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
20
10
00
84
84
84
84
84
84
8C
74
00
00
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37100
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37109
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37118
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37122
STARTCHAR uni01CA
ENCODING 458
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
96
92
92
D2
B2
92
92
9A
9A
94
00
00
ENDCHAR
STARTCHAR uni01CB
ENCODING 459
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
92
92
92
92
90
D6
B2
92
92
92
92
92
0A
04
ENDCHAR
STARTCHAR uni01CC
ENCODING 460
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37171
88
70
ENDCHAR
STARTCHAR uni01F1
ENCODING 497
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
CE
A2
A2
A2
A4
A4
A8
A8
A8
CE
00
00
ENDCHAR
STARTCHAR uni01F2
ENCODING 498
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
C0
A0
A0
AE
A2
A4
A4
A8
A8
A8
CE
00
00
ENDCHAR
STARTCHAR uni01F3
ENCODING 499
SWIDTH 960 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

STARTCHAR Aringacute
ENCODING 506
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
10
20
30
48
30
48
84
FC
84
84
84
84
00
00
ENDCHAR
STARTCHAR aringacute
ENCODING 507
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
10
20
30
48
30
78
84
04
7C
84
84
7C
00
00
ENDCHAR
STARTCHAR AEacute
ENCODING 508
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37186
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37221
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37260
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37264
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37294
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37308
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37312
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37326
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37327
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37337
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37341
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37344
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ENCODING 974
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
08
10
00
44
54
54
54
54
54
28
00
00
ENDCHAR

STARTCHAR uni03D0
ENCODING 976
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DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
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00
30
48
88
90
B8
C4
84
84
48
30
00
00
ENDCHAR

STARTCHAR theta1
ENCODING 977
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37372
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37378
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37392
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37400
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37409
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37411
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

37443
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37464
STARTCHAR uni04EA
ENCODING 1258
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
48
48
00
78
84
84
84
FC
84
84
84
78
00
00
ENDCHAR
STARTCHAR uni04EB
ENCODING 1259
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
00
00
48
48
00
78
84
84
FC
84
84
78
00
00
ENDCHAR
STARTCHAR uni04EC
ENCODING 1260
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37475
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37486
STARTCHAR uni0553
ENCODING 1363
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
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54
54
38
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ENCODING 1364
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DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
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18
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38
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A0
78
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STARTCHAR uni0555
ENCODING 1365
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DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37511
54
AC
ENDCHAR
STARTCHAR uni0E11
ENCODING 3601
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
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A8
F4
24
44
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ENDCHAR
STARTCHAR uni0E12
ENCODING 3602
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
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94
F4
94
F4
F4
F4
BC
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STARTCHAR uni0E13
ENCODING 3603
SWIDTH 960 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37549
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
B0
A0
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ENDCHAR
STARTCHAR uni16A0
ENCODING 5792
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
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STARTCHAR uni16A2
ENCODING 5794
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BBX 7 14 0 -2
BITMAP
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60
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48
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ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37585
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

37592
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37593
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37603
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 37653
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37676
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37861
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37865
OPEN SOURCE USED IN FIELD NETWORK DIRECTOR FOR VIRTUAL MACHINE INSTALLATION 4.8.0

ENDCHAR

STARTCHAR SF390000
ENCODING 9556
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
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00
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3E
20
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28
ENDCHAR

STARTCHAR SF220000
ENCODING 9557
SWIDTH 960 0
DWIDTH 7 0
BBX 7 14 0 -2
BITMAP
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00
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F0
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F0
10
10
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10
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10
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  37811
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 37829
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 37967
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38006
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38022
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38040
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  38048
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38050
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38052
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

38082
04
04
FC
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20
40
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ENDCHAR
STARTCHAR uniFF67
ENCODING 65383
SWIDTH 960 0
DWIDTH 7 0
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BITMAP
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00
00
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FC
04
18
10
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00
ENDCHAR
STARTCHAR uniFF68
ENCODING 65384
SWIDTH 960 0
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BBX 7 4 0 -2
BITMAP
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D0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
No license file was found, but licenses were detected in source scan.
78
30
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ENDCHAR
STARTCHAR slash
ENCODING 47
SWIDTH 426 0
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BBX 6 13 0 -2
BITMAP
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STARTCHAR logicalnot
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CC
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ENCODING 232
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ENCODING 233
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38202
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

38206
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38210
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ENCODING 321
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ENCODING 322
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38423
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C0
C0
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EC
CC
CC
CC
00
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38
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ENDCHAR

STARTCHAR uni1E5A
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SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
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F8
CC
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ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38476
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 38513
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38516
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  38517
38
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ENCODING 8012
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38
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ENDCHAR
STARTCHAR uni1F4D
ENCODING 8013
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DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni1F50
ENCODING 8016
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DWIDTH 6 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38533
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38573
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STARTCHAR uni1FE1
ENCODING 8161
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BBX 6 13 0 -2
BITMAP
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STARTCHAR daggerdbl
ENCODING 8225
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DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
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STARTCHAR bullet
ENCODING 8226
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BBX 6 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR ellipsis
ENCODING 8230
SWIDTH 426 0
DWIDTH 6 0

STARTCHAR suchthat
ENCODING 8715
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
00
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ENDCHAR
STARTCHAR minus
ENCODING 8722
SWIDTH 426 0
DWIDTH 6 0
BBX 6 13 0 -2
BITMAP
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ENDCHAR
STARTCHAR uni2213
ENCODING 8723
SWIDTH 426 0
DWIDTH 6 0
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BITMAP
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38615
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38625
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BITMAP
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E0
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ENDCCHAR
STARTCHAR uni256F
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BITMAP
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E0
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No license file was found, but licenses were detected in source scan.

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COMMENT "Send bug reports to Markus Kuhn <http://www.cl.cam.ac.uk/~mgk25/>"
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38678
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38691
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38702
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0100
0100
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4100
4300
3D00
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ENDCHAR
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ENCODING 230
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DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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0000
0000
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4900
0900
3E00
4800
4900
3700
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0000
0000
ENDCHAR
STARTCHAR ccedilla
ENCODING 231
SWIDTH 576 0
DWIDTH 9 0

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
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ENCODING 253
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0800
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4200
4200
4200
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0200
4200
3C00
ENDCHAR
STARTCHAR thorn
ENCODING 254
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DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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0000
0000
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6100
4100
4100
6100
5E00
4000
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ENDCHAR
STARTCHAR ydieresis
ENCODING 255
SWIDTH 576 0
DWIDTH 9 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38737
STARTCHAR ebreve
ENCODING 277
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
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2200
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0000
3E00
4100
4100
7F00
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ENDCHAR

STARTCHAR Edotaccent
ENCODING 278
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
1800
0000
7F00
4000
4000
4000
7C00
4000
4000
4000
7F00
0000
0000
0000
ENDCHAR

STARTCHAR edotaccent
ENCODING 279
SWIDTH 576 0
DWIDTH 9 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
6000
ENDCHAR
STARTCHAR kgreenlandic
ENCODING 312
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
4100
4200
4400
7800
4400
4200
4100
0000
0000
ENDCHAR
STARTCHAR Lacute
ENCODING 313
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0200
0400
0800
0000
4000
4000
4000
4000
4000
4000
4000
4000
4000
7F00
0000
0000
0000
ENDCHAR
STARTCHAR lacute
ENCODING 314
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38776
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
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<th>4100</th>
<th>3E00</th>
</tr>
</thead>
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**ENDCHAR**

**STARTCHAR uni01F6**

**ENCODING 502**

**SWIDTH 576 0**

**DWIDTH 9 0**

**BBX 9 15 0 -3**

**BITMAP**

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<td>0000</td>
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</table>

**ENDCHAR**

**STARTCHAR uni01F7**

**ENCODING 503**

**SWIDTH 576 0**

**DWIDTH 9 0**

**BBX 9 15 0 -3**

**BITMAP**

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</table>
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38870
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38879
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4100
7F00
0100
0100
3E00
0000
0000
0000
ENDCHAR
STARTCHAR uni0259
ENCODING 601
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
3E00
0100
0100
7F00
4100
4100
3E00
0000
0000
0000
ENDCHAR
STARTCHAR uni025A
ENCODING 602
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
3800
0600
0500
7C00
4400

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38881
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38896
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

38923
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38845
1000
ENDCHAR
STARTCHAR uni0318
ENCODING 792
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0200
1E00
0200
ENDCHAR
STARTCHAR uni0319
ENCODING 793
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
2000
3C00
2000
ENDCHAR
STARTCHAR uni031A
ENCODING 794
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
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<td>DWIDTH 9 0</td>
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<tr>
<td>BITMAP</td>
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<td>0400</td>
</tr>
<tr>
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<tr>
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<td>ENCODING 868</td>
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<tr>
<td>BITMAP</td>
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<td>2400</td>
</tr>
<tr>
<td>3C00</td>
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</tr>
<tr>
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<tr>
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<tr>
<td>0000</td>
<td>0000</td>
<td>0000</td>
</tr>
<tr>
<td>ENDCCHAR</td>
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<td></td>
</tr>
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 38997
STARTCHAR Omegatonos
ENCODING 911
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
2E00
5100
9100
1100
1100
1100
1100
0A00
0A00
1B00
0000
0000
0000
ENDCHAR
STARTCHAR iotadieresistonos
ENCODING 912
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0400
4900
5100
0000
1000
1000
1000
1000
1000
1200
0C00
0000
0000
0000
ENDCHAR
STARTCHAR Alpha
ENCODING 913
SWIDTH 576 0
DWIDTH 9 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

This document contains information about the use of open-source software in Field Network Director for virtual machine installation. It is recommended to review the details provided for specific requirements and considerations.
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39015
Open Source Used In Field Network Director for Virtual Machine Installation 4.3.0 3822

<table>
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<tr>
<th>STARTCHAR</th>
<th>ENDCCHAR</th>
<th>ENCODING</th>
<th>SWIDTH</th>
<th>DWIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>sigma</td>
<td></td>
<td>963</td>
<td>576</td>
<td>9</td>
</tr>
<tr>
<td>tau</td>
<td></td>
<td>964</td>
<td>576</td>
<td>9</td>
</tr>
</tbody>
</table>

BITMAP

```
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```

```
0000 0000 0000 0000 0000 0000 3F00 4400 4200 4100 4100 4100 4100 3E00 0000 0000 0000 0000 ENDCHAR
```

```
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 BITMAP
```

```
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 BITMAP
```

```
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 BITMAP
```

```
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 BITMAP
```

```
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 BITMAP
```

```
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 BITMAP
```

```
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 BITMAP
```

```
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 BITMAP
```

```
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 BITMAP
```

```
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 BITMAP
```

```
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 BITMAP
```
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0 39029
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

39055
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39061
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39069
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39109
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0200
0200
0300
0100
0100
0000
ENDCHAR
STARTCHAR uni04B7
ENCODING 1207
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
4200
4200
4200
3E00
0200
0200
0200
0300
0100
0100
0000
ENDCHAR
STARTCHAR uni04B8
ENCODING 1208
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
4100
4100
4100
4900
4900
3F00
0900
0900
0100
0100
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
STARTCHAR uni04EC
ENCODING 1260
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
1400
1400
0000
3C00
4200
0100
0100
0F00
0100
0100
4200
3C00
0000
0000
0000
ENDCHAR
STARTCHAR uni04ED
ENCODING 1261
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
1400
1400
0000
3E00
4100
0100
0F00
0100
4100
3E00
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni04EE
ENCODING 1262
SWIDTH 576 0
DWIDTH 9 0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39164
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39169
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39176
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39180
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39230
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39241
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
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0F80
1800
8800
8E00
C300
7E00
2400
7E00
2400
ENDCHAR
STARTCHAR afii57451
ENCODING 1611
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
2000
4000
A000
4000
8000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR afii57452
ENCODING 1612
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
A100
4900
3D00
4B00
3000
ENDCHAR
STARTCHAR uni0E0F
ENCODING 3599
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
3E00
4100
6100
2100
6100
A100
5100
3500
5B00
2000
ENDCHAR
STARTCHAR uni0E10
ENCODING 3600
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
3D00
4200
7E00
0900
1500
0D00
0200
3300
5500
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39274
A100
4100
0100
0100
0000
ENDCHAR
STARTCHAR uni0E27
ENCODING 3623
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DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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0000
0000
0000
0000
3E00
4100
0100
0100
0300
0500
0200
0000
0000
0000
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STARTCHAR uni0E28
ENCODING 3624
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BBX 9 15 0 -3
BITMAP
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0000
0000
0000
0100
3E00
4100
4900
5500
2900
4100
4100
0000
0000

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

39314
4100
3E00
0000
0000
0000
ENDCHAR
STARTCHAR uni0EC8
ENCODING 3784
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0800
0800
0800
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni0EC9
ENCODING 3785
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
2000
5080
3100
7E00
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39330
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39341
4100
3E00
0000
0000
ENDCHAR
STARTCHAR uni10BE
ENCODING 4286
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
4200
4200
4200
4200
4200
7E00
4000
4000
4000
4000
7E00
0200
0000
0000
ENDCHAR
STARTCHAR uni10BF
ENCODING 4287
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
FF00
4100
2200
1400
0800
1400
2200
4000
8000
8000
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39362
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39437
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39447
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39489
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39495
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39518
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39574
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39587
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39618
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39657
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
0000
ENDCHAR
STARTCHAR uni1F2A
ENCODING 7978
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
E880
5880
8880
0880
0F80
0880
0880
0880
0880
0880
0000
0000
ENDCHAR
STARTCHAR uni1F2B
ENCODING 7979
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
E880
9880
4880
0880
0F80
0880
0880
0880
0880
0880
0000
0000
ENDCHAR
STARTCHAR uni1F2C
ENCODING 7980
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39698
Open Source Used in Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39710
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39732
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 39749
BBX 9 15 0 -3
BITMAP
0000
0000
0800
1400
2200
4100
4100
4100
7F00
4100
4100
4100
0000
0800
0C00
ENDCHAR
STARTCHAR uni1FBD
ENCODING 8125
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0C00
0400
0800
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni1FBE
ENCODING 8126
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39769
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
2200
4100
4100
4100
8080
8080
8080
8080
8080
8080
8080
8080
8080
8080
7F00
ENDCHAR
STARTCHAR uni20E5
ENCODING 8421
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
4000
2000
2000
1000
0800
0800
0400
0200
0200
0100
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni20E6
ENCODING 8422
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
1400
1400
1400
1400
1400
1400
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39867
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
1200
2400
4800
FF00
4800
2400
1200
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni219F
ENCODING 8607
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0800
1C00
2A00
4900
1C00
2A00
4900
0800
0800
0800
0000
0000
0000
0000
ENDCHAR
STARTCHAR uni21A0
ENCODING 8608
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
4800
2400
1200
FF00
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39961
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

ENDCHAR
STARTCHAR therefore
ENCODING 8756
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
0800
0800
0000
0000
2200
2200
0000
0000
0000
ENDCHAR
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39989
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  39996

0000
0000
0000
0200
0200
3400
4D00
0600
0800
7F00
1000
1000
0000
0000
0000
0200

ENDCHAR
STARTCHAR congruent
ENCODING 8773
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
3000
4900
0600
0000
7F00
0000
7F00
0000
0000
0000
0000
0000

ENDCHAR
STARTCHAR uni2246
ENCODING 8774
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000

---
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  40014
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  40018
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  40027
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 40032
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 40038
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 40042
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 40044
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 40046
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 40054
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

40076
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  40082
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  40083
2000
1E00
0000
7E00
0000
ENDCHAR
STARTCHAR uni2378
ENCODING 9080
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
1800
0800
0800
0800
0800
0A00
0400
0000
1E00
0000
ENDCHAR
STARTCHAR uni2379
ENCODING 9081
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
0000
0000
0000
0000
0000
2200
4100
4900
4900
4900
3600
0000
7F00
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 40137
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 40153
STARTCHAR uni239F
ENCODING 9119
SWIDTH 576 0
DWIDTH 9 0
BBX 9 15 0 -3
BITMAP
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**ENCODING 64511**

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**DWIDTH 9 0**

**BBX 9 15 0 -3**

**BITMAP**

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**ENCODING 65056**

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**DWIDTH 9 0**

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Version 2, June 1991

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1.106 protobuf-java 3.9.1

1.107 okhttp 4.8.1

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1.108 d-conf 0.28.0-4.el7

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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therefore falls outside the scope of this License.

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
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this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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"Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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b) Convey the object code in, or embodied in, a physical product 
(including a physical distribution medium), accompanied by a 
written offer, valid for at least three years and valid for as 
long as you offer spare parts or customer support for that product 
model, to give anyone who possesses the object code either (1) a 
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product that is covered by this License, on a durable physical 
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1.120 evolution-data-server 3.28.5-3.el7

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.131 libcgroup 0.41-21.el7

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The following article from James A. Woods, one of the earlier authors of compress, explains its relationship to the Unisys patent on the LZW compression method:

```
Article: 1282 of gnu.misc.discuss
From: jaw@riacs.edu (James A. Woods)
Newsgroups: gnu.misc.discuss
Subject: Sperry patent #4,558,302 does *not* affect 'compress'
Keywords: data compression, algorithm, patent
Message-ID: <1990Jul31.220935.1424@riacs.edu>
Date: 31 Jul 90 22:09:35 GMT
Organization: RIACS, NASA Ames Research Center
Lines: 69

#  "The chief defect of Henry King
   Was chewing little bits of string."
   -- Hilaire Belloc, Cautionary Tales [1907]

As a co-author of 'compress' who has had contact with an attorney for Unisys (nee Sperry), I would like to relay a very basic admission from Unisys that noncommercial use of 'compress' is perfectly legal. 'Compress' is also commercially distributed by AT&T as part of Unix System 5 release 4, with no further restrictions placed upon the use of the binary, as far as I am aware.
From conversations with Professor Abraham Lempel and others, it appears that neither AT&T, Sun Microsystems, Hewlett Packard, nor IBM are paying any sort of license fees to Unisys in conjunction with patent #4,558,302. It may be true that some organizations are paying fees for data compression technology licensed from one or more of the many holders of compression patents, but this is all independent from 'compress'.

In particular, I received a letter at NASA dated October 1, 1987 from John B. Sowell of the Unisys law department, informing me for the first time that some form of LZW was patented. I naturally expressed skepticism that an algorithm could be patented (a murky legal area which remains so), stated that 'compress' is not identical to LZW, and in fact was designed, developed, and distributed before the ink on the patent was dry. Several telephone conversations later, Mr. Sowell intimated that they would *not* seek any fees from users of 'compress' but instead were signing licensees for hardware implementations of LZW.

So, regardless of what you believe about a shady legal area, if anyone from Unisys contacts you to extract tribute for the use of 'compress', please tell them that, first, it is not theirs to begin with, and, second, there is someone who will testify in court about the conversation above. It is not even clear if anyone can "own" 'compress', since original developer Spencer Thomas, myself, and others placed the code in the public domain long before the adoption of the Berne copyright convention.

In light of the events above, it seems that the Free Software Foundation is being unduly paranoid about the use of 'compress'. Now I can well believe that FSF is more likely to be a legal target than a behemoth like AT&T, but if they are simply redistributing untouched free software developed years ago in the public sector, I see no problem.

Aside: I am investigating, possibly for a case history to be recycled to USENET, the particulars of data compression patents. I am aware of the following patents: IBM's Miller-Wegman LZ variant, those of Telcor and ACT [losing candidates for the British Telecom modem standard], James A. Storer's work on limited lookahead as explicated in his text "Data Compression (methods and theory)". Computer Science Press, 1988, and the various patents pending associated with the Fiala and Greene CACM article of April, 1989 on textual substitution methods. If you have any lore, send it this way.

Sincerely,

James A. Woods
P.S. The algorithm patent issue certainly is a "topic A" at the moment.
One useful reference is the review article by Anthony and Colwell --
"Litigating the Validity and Infringement of Software Patents" in
personally. As a practicing patent attorney, he tells me that, at a minimum,
use of an invention "for research purposes" is legitimate.

Found in path(s):
* /opt/cola/permits/1126580725_1611725447.43/0/ncompress-4.2.4.4-3.el7-1.src.rpm-cosi-expand-archive-
K4sj52zs/ncompress-4.2.4.4.tar.gz-cosi-expand-archive-ESU4ggZJ/ncompress-4.2.4.4/LZW.INFO
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* /opt/cola/permits/1126580725_1611725447.43/0/ncompress-4.2.4.4-3.el7-1.src.rpm-cosi-expand-archive-
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1.136 cairomm 1.12.0-1.el7

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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1.140 websocket-servlet 9.2.19.v20160908

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It is currently developed by a community of developers, as well as supported
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
licensel: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3
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=head1 DESCRIPTION
Tests that the latest copyright years in the top-level README file and the
\texttt{perl -v} output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the \texttt{--now} option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
  skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}
done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  "..."
# The copyright message is the first paragraph:
local $/ = '';
my $copyright_msg = <$readme>;

my ($year) = $copyright_msg =~ /\d{4,}/s
  or die "Year not found in README copyright message \'$copyright_msg\';

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\b\d{4,}\b/i
  or die "Copyright statement not found in perl -v output \'$output\';

$year;
}

1.154 libsepol 2.5 10.el7
1.154.1 Available under license :
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  Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
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1.155 jakarta-validation-api 2.0.2

1.155.1 Available under license:
No license file was found, but licenses were detected in source scan.

/*
* Jakarta Bean Validation API
*
* License: Apache License, Version 2.0
* See the license.txt file in the root directory or <http://www.apache.org/licenses/LICENSE-2.0>.
*/

Found in path(s):
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/ValidationTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 41269

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/Size.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/PastOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/ConstraintViolationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/bootstrap/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/TraversableResolver.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/executable/ExecutableValidator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/ValidationProviderResolver.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/ValidatorFactory.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/metadata/ContainerDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/metadata/ConstraintDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/metadata/ParameterDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/NotNull.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/Email.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/constraints/ConstraintDeclarationException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3.jar/javax/validation/executable/ExecutableType.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertFalse.java
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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.161 cglib 2.2

1.162 jboss-as-clustering-infinispan

7.2.0.Final

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Version 3, 19 November 2007

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

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

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

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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11.1. Axway agrees to defend, settle and indemnify Customer from and against any amounts payable under judgment, court order or settlement brought by any unaffiliated third party against Customer to the extent that such action results from actual or alleged infringement by any Product of any third party copyright, trade secret or patent existing or issued as of the date that Axway initially Delivered the applicable version of such Product to Customer. In connection with any allegation of infringement of any third party rights, Customer shall (and it shall be a condition of reliance upon the indemnity for Customer to): immediately notify Axway in writing of the allegation; and allow Axway sole control of the defense and any related settlement negotiations; and cooperate in good faith in the said defense and comply with all of Axways reasonable requests (at Axways expense) in defending or settling the claim. 11.2. Should Customers use of the Product be determined to have infringed any third party rights, or if in Axways judgment, such use is likely to be infringing, Axway shall endeavor at its option do one of the following, at its own expense: - procure for Customer the right to continue owning and/or using the Product, as applicable, - replace or modify the Product to make its Use non-infringing while yielding substantially equivalent functionality. If and only if the previous options are not, in Axways reasonable judgment, commercially reasonable, then Axway may terminate this Agreement as it applies to the specific Product and the corresponding rights of Use. Customer agrees to destroy or return the affected Product to Axway on its written request and Axway will then return the Product license fees to Customer as prorated over a five (5) year term commencing on the date of Delivery of the applicable Product by Axway. The obligations of Axway in this Article 11 will not apply to the extent that the infringement or claim thereof is based on (i) Use of the Product other than in accordance with this Agreement, or (ii) modifications or additions to the Product by Customer personnel (other than modifications at Axways direction) or (iii) use of other than the most recent version of any Product if and from the time Axway informs Customer in writing that infringement or misappropriation may be avoided by use of the most recent version of such Product. THIS ARTICLE 11 SETS FORTH THE FULL SCOPE OF AXWAYS LIABILITY AND CUSTOMERS EXCLUSIVE REMEDY, TO THE EXTENT PERMITTED BY LAW, FOR ANY ACTUAL OR ALLEGED INFRINGEMENT OF THIRD PARTY RIGHTS IN CONNECTION WITH THE PRODUCT.

ARTICLE 12 LIABILITY

12.1. Axway does not warrant that the Product will operate in combination with other software selected by Customer, or that the Product will operate uninterrupted or free of non-material Defects. The Customer shall promptly inform Axway of any Defect and afford Axway reasonable opportunity to correct the Defect including, without limitation, the option to provide replacement Product, or correct any deficiency in Support Services. 12.2. Except for Axways obligations with respect to indemnification or confidentiality, Axway is not liable for any special, indirect, exemplary, incidental, punitive or consequential damages of any kind, including, without limitation, damages for loss of goodwill, work stoppage, lost profits, lost data or computer hardware or software damage, failure or malfunction, whether or not Axway has been advised of the possibility of such damages; except for Axways obligations with respect to indemnification or confidentiality, Axways liability hereunder shall not exceed the total amount of license and services fees invoiced under this agreement for the software giving rise to such liability during the calendar year in which the claim arose. The foregoing limitations of liability and disclaimers of damages apply regardless of the form in which an action (legal, equitable or otherwise) may be brought, whether in contract, tort, or otherwise. The limitations of liabilities, disclaimers of warranties, exclusivity of remedies and other limitations set forth herein are an essential element of the bargain between the parties (without which the transactions contemplated by this agreement would not occur) and will apply even if a remedy fails in its essential
purpose. Axways liability for death and personal injury caused by its negligence and any breach of its obligations implied by Section 12 of the Sale of Goods Act 1979 or Section 2 of the Supply of Goods and Services Act 1982 will be unlimited 12.3. This Agreement is enforceable by the Parties to it and by their permitted assignees, otherwise a person who is not a party to this Agreement shall have no right to enforce or rely on any of the terms of this Agreement. The terms of this Article 12 shall survive termination of this Agreement.

ARTICLE 13 ADVERTISING
The Customer must include Axways name any time it refers to the Product. The Customer hereby authorizes Axway to include its name in a customer list.

ARTICLE 14 ADMINISTRATIVE REQUIREMENTS
The Customer is responsible for obtaining any required legal authorizations arising out of Customers particular use of the Products and is responsible for its compliance with applicable data protection legislation.

ARTICLE 15 CONFIDENTIALITY
15.1. Each Party recognizes that under this Agreement either Party may have access to or otherwise receive trade secrets and confidential or proprietary information of the other, including information concerning products, including but not limited to the names of Customers clients, financial or contractual arrangements. All such information shall constitute "Confidential Information". The Products, including any Documentations or portions thereof and information, material or copy derived therefrom, is proprietary and confidential to Axway. Each Party agrees not to use, other than for the purposes for which it was disclosed or divulged the other party's Confidential Information and to limit disclosure of same to those of its employees and independent contractors who have a need to know the same and to use all reasonable endeavors to prevent its disclosure to or access by any third party without the prior written consent of the disclosing party. 15.2. Confidential Information does not include information that: (i) is or becomes a part of the public domain through no act or omission of the receiving Party; (ii) was in the receiving Party's lawful possession prior to the disclosure and had not been obtained by the receiving Party either directly or indirectly from the disclosing Party; (iii) is lawfully disclosed to the receiving Party by a third party without restriction on disclosure; (iv) is independently developed by the receiving Party without reference to the disclosing Party's Confidential Information; or (v) is required to be disclosed by any court of competent jurisdiction or by a governmental or regulatory authority or where there is a legal right, duty or requirement to disclose. In such event, the receiving Party will (and without breaching any legal or regulatory requirement) where reasonably practicable give the disclosing Party prompt notice in writing of the requirement to disclose. 15.3. The rights and obligations of the Parties under this Article 15 shall continue for three (3) years following expiration or termination of this Agreement.

ARTICLE 16 NON-SOLICITATION
16.1. For the duration of this Agreement and for the period of twelve (12) months following its termination or expiration, neither Party shall, without the prior written consent of the other Party, actively endeavor to solicit or entice away any person employed or engaged by the other Party in the performance or administration of this Agreement. 16.2. If a Party breaches the foregoing obligation, the breaching party shall pay to the other Party twelve times the prior monthly base salary of the relevant person, such sum being deemed by both Parties to be fair compensation for the loss suffered as a result of the breach. 16.3. The provisions of Article 16.2 shall not apply to any individual who can be proven to have responded to a bona fide published recruitment advertisement where the recruited person is not recruited to work for or with a party's personnel or department involved in this Agreement. Nothing in this Article 16 is intended to restrict the right of any individual to seek employment with whomsoever they wish, but is intended to provide for due compensation where such a situation occurs as a result of entering into this Agreement recognizing that loss of experienced personnel can have a serious effect upon any employer.
ARTICLE 17 TERMINATION
17.1. This Agreement may be terminated by either Party immediately upon written notice if the other Party is in material or continuing breach of any of its obligations under this Agreement and fails to remedy that breach (if capable of remedy) within thirty (30) days after receiving written notice of such breach. 17.2. Either Party may terminate this Agreement forthwith on giving written notice to the other Party if such Party has had a receiver or administrative receiver appointed over the whole or any part of its undertaking or assets or passes a resolution for winding up, or a court of competent jurisdiction makes an order to that effect or if the other Party enters into any voluntary arrangement with its creditors or becomes subject to a bankruptcy administration order or ceases to carry on business. 17.3. Upon termination of the Agreement Customer must, depending on the method of Product delivery, either: (i) return the Licensed Component and the Documentation to Axway and destroy or return any copies of the Licensed Component that it may have made within fifteen (15) days from the termination date or (ii) remove all copies of the Licensed Component and certify in writing that all copies have been removed and destroyed. 17.4. After the Initial Support Term or any of the annual renewal of Support Services terms, either Party may terminate the Support Services on six (6) months prior written notice.

ARTICLE 18 WAIVER
The fact that either Party fails to take action after a breach by the other Party of any of its obligations arising hereunder shall not be construed or operate as a waiver of the obligation in question or of any later breach.

ARTICLE 19 SEVERABILITY
If any of the provisions of this Agreement, or any part thereof, is judged to be illegal or unenforceable, the remaining provisions will continue in full force and effect for the remainder of this Agreement and shall not be prejudiced, unless the substantive purpose of this Agreement is thereby frustrated, in which case either Party may terminate this Agreement forthwith on written notice.

ARTICLE 20 ASSIGNMENT
This Agreement and the license granted hereunder may not be assigned or transferred in whole or in part by Customer without Axway’s prior written consent. Axway may assign and transfer its complete rights and obligations under this Agreement, without the consent of Customer, to any corporation that is a wholly owned subsidiary or parent or sister corporation of Axway. This Agreement is enforceable by the Parties to it and by their permitted assignees, otherwise a person who is not a party to this Agreement shall have no right, including without limitation under the Contracts (Rights of Third Parties) Act 1999 to enforce or rely on any of the terms of this Agreement.

ARTICLE 21 AUDIT
Axway hereby reserves the right to conduct an on-site audit of Customer to verify compliance with the Licensed Component license granted herein by providing at least three (3) days prior written notice. Customer consents to audit compliance software being run on Customer systems. The Customer hereby agrees to cooperate with the audit in good faith, to grant Axway access to all relevant information and to provide copies of relevant information on request. In addition, Customer agrees, upon request by Axway from time to time, to provide Axway with a written report, certified by an officer, stating the physical Site(s) and computer systems with respect to which Customer is using the Licensed Component.

ARTICLE 22 EXPORT
Customer shall not export, ship, transmit or re-export the Products or Documentation in violation of any applicable law or regulation.

ARTICLE 23 THIRD PARTY SOFTWARE
Certain Third Party Software may be provided with the Licensed Component(s) that is subject to the accompanying license(s), if any, of its respective owner(s). To the extent portions of the Software are distributed under and subject to open source licenses obligating Axway to make the source code for such portions publicly available (such as the GNU General Public License ("GPL") or the GNU Library General Public License ("LGPL")), Axway will make such source code portions (including Axway modifications, as appropriate) available upon request for a period of up to three (3) years from the date of distribution. Such request can be made in writing to Axway Software - Tour W, 102 Terrasse Boieldieu, 92085 Paris La Défense Cedex, France ATTN: Legal Department. Customer may obtain a copy of the GPL at http://www.gnu.org/licenses/gpl.html, and a copy of the LGPL at http://www.gnu.org/licenses/lgpl.html.

ARTICLE 24 - NOTICES
All notices, demands, consents, approvals and other communications shall be sufficient if in writing and sent by facsimile transmission (with a hard copy mailed on the same date) or registered or certified mail, return receipt requested, postage prepaid, or overnight courier service to the other party at its address set out in the Order Form or to such other superseding notice address that it has subsequently provided to other Party in writing. Each such notice shall be deemed to have been served: in the case of by hand and special delivery, when actually received; or if posted by recorded delivery shall be deemed to have been accepted on the expiry of forty eight (48) hours after posting and on proving posting it shall be sufficient to produce a copy of the notice properly addressed with the relevant post office receipt for its dispatch by recorded delivery.

ARTICLE 25  GOVERNING LAW and DISPUTES
25.1. This Agreement will be governed by and interpreted in accordance with the laws of England and Wales. Should any dispute arise, the Parties will use all reasonable efforts to attempt to resolve the dispute in good faith by senior level negotiations. The dispute shall be referred by a written request to an officer of each Party who has authority to resolve the dispute and who is not directly involved with the subject matter of this Agreement who shall meet within fifteen (15) days from the dispatch of the written request in order to attempt to resolve the dispute. 25.2. If the dispute is not resolved through negotiation, both Parties agree that the Courts of England will have exclusive jurisdiction in connection with the resolution of the dispute. The United Nations Convention on the International Sale of Goods shall not apply to this Agreement.

ATTACHMENT A ADDITIONAL DEFINITIONS
To the extent used in the Order Forms pursuant to this Agreement, the following definitions have the following meanings: Active (Production) License means a license for Use of the Product in a production environment. An Active/Active configuration refers to a shared cluster configuration whereby applications and data are simultaneously available to all server Instances in the cluster. Consequently, Active/Active clusters support high availability; Computer means one or a group of physical hardware machines processing data and hosting the running of one or more operating systems as defined in the Order Form; Core means the main part of CPU that interprets the instructions and performs the binary calculations. Every CPU has at least one Core, but can be composed of several Cores. If the right of Use is based on Cores and if the Licensed Component is used on a single computer with multiple Cores, the Core license must correspond with the number of respective Cores contained within such Computer CPU (Central Processing Unit) means a functional unit in a computer that interprets and executes instructions. If the right of Use is based on CPUs and if the Licensed Component is used on a single computer with multiple CPUs, the CPU license must correspond with the number of respective CPUs contained within such Computer Instance means a single occurrence of a Licensed Component. For clarification, if Customer has purchased only one Active Production Instance, Customer may run a single occurrence of the Licensed Component in RAM (Random Access Memory); Named User means a physical person susceptible to establish a session with the
Licensed Component; Node means a running instance of an Axway program, i.e. a JVM (Java Virtual Machine) running an Axway application; Partition means a reserved part of the resources of an Operating Environment that is set aside for a specific purpose; Such as: Capped-Partition means the Sub-Capacity Partition using a determined maximum subset of the resources of an Operating Environment. Floating Partition means the Sub-Capacity Partition using a dynamically allocated subset of the resources of an Operating Environment. The maximum potential of resources used by a Sub-Capacity Partition equals the overall resources of the Operating Environment; Full-Capacity Partition means a Partition using all the resources of an Operating Environment. There can only be one Full-Capacity Partition per Operating Environment. If there is another partition, then both Partitions are Sub-Capacity Partitions; Sub-Capacity Partition means a partition using a subset of the resources of an Operating Environment; Passive (Non-Production) License refers to a cluster fail over or disaster recovery software architecture. The passive software doesn't execute unless the licensed production copy of the Licensed Component fails. Where Customer is not able to use its licensed production copy of the Licensed Component in the event of fail over, the Passive license will start executing after a service interruption. A Passive License may also include those for test, development, archiving or quality control/quality assurance; User means, unless otherwise stated in the applicable Order: (a) with respect to all Products other than Products that are part of Axways Validation Authority or SecureTransport product suites, any person who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; (b) with respect to any Product included in Axways SecureTransport product suite, any person or system who is assigned login or Use rights or credentials by Customer to access the applicable Product, whether directly, through another application or otherwise; and (c) with respect to any Product included in Axways Validation Authority product suite, any Validation Authority User. Validation Authority User means any Human User, Group User or Non-Human User. Human User means, with respect to the applicable Product included in Axways Validation Authority product line, any human who has one or more associated digital certificates associated with such human that: (i) uniquely identify such human; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product. Group User means, with respect to the applicable Product included in Axways Validation Authority product line, any group of humans that has one or more associated digital certificates that: (i) uniquely identify such group; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product. Non-Human User means, with respect to the applicable Product included in Axways Validation Authority product line, anything other than a Human User or Group User (such as a device) (Non-Human) that has one or more associated digital certificates that: (i) uniquely identify such Non-Human; and (ii) are contained in a database or other repository that can be queried through Customers implementation of such Product.

1.176 seam-faces-api 3.2.0.Final

1.176.1 Available under license:

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1.177 checker-compat-qual 2.0.0

1.178 xdg-utils 1.1.0 0.17.20120809git.el7

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## 1.179 gnutls 3.3.29 9.el7_6

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.
The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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1.180 marisa 0.2.4-4.el7

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1.181 webkit 2.4.11-2.el7

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

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

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

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

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

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

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1.183 python-ipaddr 2.1.11-4.ph2

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

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

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

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#
# These tests merely verify that the parse occurs without error.
# No attempt is made to verify correct operation of the resulting schema
# and statements.
#
set testdir [file dirname $argv0]
source $testdir tester.tcl

# Schema and query extracted from Skrooge.org.
#
# do_test fuzz-oss1-skrooge {
CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_uuid_parent TEXT NOT NULL DEFAULT '', t_name TEXT NOT NULL, t_value TEXT NOT NULL DEFAULT '', b_blob BLOB, d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP, i_tmp INTEGER NOT NULL DEFAULT 0);
CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')), d_date DATE NOT NULL, t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')), i_parent INTEGER, t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
CREATE TABLE unit (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, t_name TEXT NOT NULL, t_symbol TEXT NOT NULL DEFAULT '', t_country TEXT NOT NULL DEFAULT '', t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')), t_internet_code TEXT NOT NULL DEFAULT '', i_nbdecimal INT NOT NULL DEFAULT 2, rd_unit_id INTEGER NOT NULL DEFAULT 0, t_source TEXT NOT NULL DEFAULT '');
CREATE TABLE operation (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT, i_group_id INTEGER NOT NULL DEFAULT 0, i_number INTEGER DEFAULT 0 CHECK (i_number>=0), d_date DATE NOT NULL DEFAULT '0000-00-00', rd_account_id INTEGER NOT NULL, t_mode TEXT NOT NULL DEFAULT '', r_payee_id INTEGER NOT NULL DEFAULT 0, t_comment TEXT NOT NULL DEFAULT '', rc_unit_id INTEGER NOT NULL DEFAULT 0, t_status VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_status IN ('N', 'P', 'Y')), t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')), t_imported VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_imported IN ('Y', 'N')), t_template VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_template IN ('Y', 'N')), i_tmp INTEGER NOT NULL DEFAULT 0, rd_recurrentoperation_id INTEGER NOT NULL DEFAULT 0, t_bookmarked VARCHAR(1) NOT NULL DEFAULT 'N' CHECK (t_bookmarked IN ('Y', 'N')));
CREATE TABLE suboperation(id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_comment TEXT NOT NULL DEFAULT "",rd_operation_id INTEGER NOT NULL,r_category_id INTEGER NOT NULL DEFAULT 0,f_value FLOAT NOT NULL DEFAULT 0.0,i_tmp INTEGER NOT NULL DEFAULT 0,r_refund_id INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT ");
CREATE TABLE rule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_description TEXT NOT NULL DEFAULT ",t_definition TEXT NOT NULL DEFAULT ",t_action_description TEXT NOT NULL DEFAULT ",t_action_type VARCHAR(1) DEFAULT 'S' CHECK (t_action_type IN ('S', 'U', 'A')) f_value FLOAT NOT NULL DEFAULT 0.0,i_tmp INTEGER NOT NULL DEFAULT 0,r_refund_id INTEGER NOT NULL DEFAULT 0, t_formula TEXT NOT NULL DEFAULT ");
CREATE TABLE budgetcategory(id INTEGER NOT NULL DEFAULT 0,id_category INTEGER NOT NULL DEFAULT 0);
CREATE TABLE budgetrule (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rc_category_id INTEGER NOT NULL DEFAULT 0, t_category_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_categoryCondition IN ('Y', 'N')) i_year INTEGER NOT NULL DEFAULT 2010,i_month INTEGER NOT NULL DEFAULT 0 CHECK (i_month >= 0 AND i_month <= 12), t_month_condition TEXT NOT NULL DEFAULT 'Y' CHECK (t_monthCondition IN ('Y', 'N')) i_condition INTEGER NOT NULL DEFAULT 0 CHECK (i_condition IN (-1, 0, 1)), f_quantity FLOAT NOT NULL DEFAULT 0.0, t_absolute TEXT NOT NULL DEFAULT 'Y' CHECK (t_absolute IN ('Y', 'N')) rc_category_id_target INTEGER NOT NULL DEFAULT 0, t_category_target TEXT NOT NULL DEFAULT 'Y' CHECK (t_categoryTarget IN ('Y', 'N')), t_rule TEXT NOT NULL DEFAULT 'N' CHECK (t_rule IN ('N', 'C', 'Y')));
CREATE TABLE "recurrentoperation" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,d_date DATE NOT NULL DEFAULT '0000-00-00',rd_operation_id INTEGER NOT NULL,i_period_increment INTEGER NOT NULL DEFAULT 1 CHECK (i_period_increment >= 0), t_period_unit TEXT NOT NULL DEFAULT 'M' CHECK (t_periodUnit IN ('D', 'W', 'M', 'Y')), t_auto_write VARCHAR(1) DEFAULT 'Y' CHECK (t_autoWrite IN ('Y', 'N')) i_auto_write_days INTEGER NOT NULL DEFAULT 5 CHECK (i_autoWriteDays >= 0), t_warn VARCHAR(1) DEFAULT 'Y' CHECK (t_warn IN ('Y', 'N')) i_warn_days INTEGER NOT NULL DEFAULT 5 CHECK (i_warnDays >= 0), t_times VARCHAR(1) DEFAULT 'N' CHECK (t_times IN ('Y', 'N')) i_nb_times INTEGER NOT NULL DEFAULT 1 CHECK (i_nb_times > 0);
CREATE TABLE vm_category_display_tmp(
  id INT,
  t_name TEXT,
  t_fullname TEXT,
  rd_category_id INT,
  t_bookmarked TEXT,
  i_NBOPERATIONS,
  f_REALCURRENTAMOUNT
);

CREATE TABLE vm_budget_tmp(
  id INT,
  rc_category_id INT,
  t_including_subcategories TEXT,
  f_budgeted REAL,
  f_budgeted_modified REAL,
  f_transferred REAL,
  i_year INT,
  i_month INT,
  t_CATEGORY,
  t_PERIOD,
  f_CURRENTAMOUNT,
  t_RULES
);

CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id,
  t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;

CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budget) Nom de la contrainte: fki_budget_category_rc_category_id_id) WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;

CREATE TRIGGER fk_k_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget) Nom de la contrainte: fk_k_budget_category_rc_category_id_id) WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;

CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON budget FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budget) Nom de la contrainte: fkd_budget_category_rc_category_id_id) WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;

CREATE TRIGGER fki_budgetrule_category_rc_category_id_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule) Nom de la contrainte: fki_budgetrule_category_rc_category_id_id) WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;

CREATE TRIGGER fku_budgetrule_category_rc_category_id_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule) Nom de la contrainte: fku_budgetrule_category_rc_category_id_id) WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;

CREATE TRIGGER fkd_budgetrule_category_rc_category_id_id BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par budgetrule) Nom de la contrainte: fkd_budgetrule_category_rc_category_id_id) WHERE (SELECT rc_category_id FROM budgetrule WHERE rc_category_id = OLD.id) IS NOT NULL; END;

CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par category) Nom de la contrainte: fki_category_category_rd_category_id_id) WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;

CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category) Nom de la contrainte: fku_category_category_rd_category_id_id) WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;

CREATE TRIGGER fkd_category_category_rd_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilis par category) Nom de la contrainte: fkd_category_category_rd_category_id_id) WHERE (SELECT category_id FROM budgetrule WHERE category_id = OLD.category_id) IS NOT NULL; END;
NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN    DELETE FROM category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionitem FOR EACH ROW BEGIN    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionitem)
      ');
WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN    SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionitem)
      ');
WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransaction FOR EACH ROW BEGIN    DELETE FROM doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fki_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE INSERT ON doctransactionmsg FOR EACH ROW BEGIN    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (doctransaction est utilis par doctransactionmsg)
      ');
WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN    SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilis par doctransactionmsg)
      ');
WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN    DELETE FROM interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilis par node)
      ');
WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN    SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)
      ');
WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_rd_node_id_id BEFORE DELETE ON node FOR EACH ROW BEGIN    DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilis par interest)
      ');
WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE UPDATE ON interest FOR EACH ROW BEGIN    SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par interest)
      ');
WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_interest_account_rd_account_id_id BEFORE DELETE ON interest WHERE interest.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN    SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (node est utilis par node)
      ');
WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fku_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN    SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)
      ');
WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_rd_node_id_id BEFORE DELETE ON node FOR EACH ROW BEGIN

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SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilisé par node) Nom de la contrainte: fku_node_node_rd_node_id_id' WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (account est utilisé par operation) Nom de la contrainte: fki_operation_account_rd_account_id_id' WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilisé par operation) Nom de la contrainte: fku_operation_account_rd_account_id_id' WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkd_operation_account_rc_unit_id_id BEFORE DELETE ON account FOR EACH ROW BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par operation) Nom de la contrainte: fki_operation_unit_rc_unit_id_id' WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par operation) Nom de la contrainte: fku_operation_unit_rc_unit_id_id' WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_rc_unit_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilisé par operation) Nom de la contrainte: fkd_operation_recurrentoperation_rc_unit_id_id' WHERE WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_operation_recurrentoperation_rc_unit_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (recurrentoperation est utilisé par operation) Nom de la contrainte: fki_operation_recurrentoperation_rc_unit_id_id' WHERE WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_rc_unit_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilisé par operation) Nom de la contrainte: fku_operation_recurrentoperation_rc_unit_id_id' WHERE WHERE rc_unit_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkd_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN     UPDATE operation SET r_recurrentoperation_id=0 WHERE r_recurrentoperation_id=OLD.id; END;

CREATE TRIGGER fki_operationbalance_operation_r_operation_id_id BEFORE INSERT ON operationbalance FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par operationbalance)
Nom de la contrainte: fki_operationbalance_operation_r_operation_id_id')   WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;

CREATE TRIGGER fku_operationbalance_operation_r_operation_id_id BEFORE UPDATE ON operationbalance FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par operationbalance)
Nom de la contrainte: fku_operationbalance_operation_r_operation_id_id')       WHERE NEW.r_operation_id!=0 AND NEW.r_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.r_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN     DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (operation est utilis par suboperation)
Nom de la contrainte: fki_suboperation_operation_rd_operation_id_id')   WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par suboperation)
Nom de la contrainte: fku_suboperation_operation_rd_operation_id_id')       WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON suboperation FOR EACH ROW BEGIN     DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id')   WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par suboperation)
Nom de la contrainte: fku_suboperation_category_r_category_id_id')       WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON suboperation FOR EACH ROW BEGIN     DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id')   WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par suboperation)
Nom de la contrainte: fku_suboperation_category_r_category_id_id')       WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
suboperation)
Nom de la contrainte: fki_suboperation_category_r_category_id_id) WHERE NEW.r_category_id!=0 AND
NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON suboperation FOR
EACH ROW BEGIN UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH
ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilis par suboperation)
Nom de la contrainte: fku_suboperation_refund_r_refund_id_id) WHERE NEW.r_refund_id!=0 AND
NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW
BEGIN UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN SELECT
RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par unit)
Nom de la contrainte: fku_unit_unit_rd_unit_id_id) WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND
(SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkd_unit_unit_rd_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unit WHERE unit.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN SELECT
RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par unitvalue)
Nom de la contrainte: fku_unitvalue_unit_rd_unit_id_id) WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND
(SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkd_unitvalue_unit_rd_unit_id_id BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR
EACH ROW BEGIN DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
Nom de la contrainte: fki_vm_budget_tmp_category_rc_category_id_id) WHERE (SELECT rc_category_id
FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id_rd_category_id BEFORE DELETE ON category
FOR EACH ROW BEGIN DELETE FROM vm_category_display_tmp WHERE vm_category_display_tmp.rd_category_id = OLD.id; END;
CREATE VIEW v_bank AS SELECT *, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_account s WHERE s.rd_bank_id=bank.id) AS f_CURRENTAMOUNT FROM bank;

CREATE VIEW v_operation_all AS SELECT *, (SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT, (SELECT s.t_UNIT FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT, (SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY, (SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND, (CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dpense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, STRFTIME('%Y-W%W',v_operation.d_date) AS d_DATEWEEK, STRFTIME('%Y-%m',v_operation.d_date) AS d_DATEMONTH, STRFTIME('%Y',v_operation.d_date) AS d_DATEYEAR, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f.balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN v_operation.f_CURRENTAMOUNT ELSE 0 END) AS f_CURRENTAMOUNT_EXPENSE, (SELECT o2.f_balance FROM operationbalance o2 WHERE o2.r_operation_id=v_operation.id) AS f_BALANCE, (CASE WHEN v_operation.f_QUANTITY>=0 Then [89] THEN 'Vous n’êtes pas autorisé d’être l’un des opérateurs rapprochés' END) t_delete_message FROM account;
CREATE VIEW v_recurrentoperation AS SELECT *, (CASE t_period_increment WHEN 'Y' THEN 'année(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLS FROM recurrentoperation;
CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',v_operation.d_date)||' '||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM v_recurrentoperation;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';

CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';

CREATE VIEW v_unit_display AS SELECT *,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;

CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prt' ELSE 'Autre' END) AS t_TYPENLS,bank.t_name AS t_BANK,bank.t_bank_number AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_CHECKED, (SELECT count(*) FROM v_operation_display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS, IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;

CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;

CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';

CREATE VIEW v_refund_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE r_refund_id=refund.id AND t_status='Y') THEN 'Vous n''tes pas autorisé à supprimer ce suiveur car utilisé par des opérations rapprochées' END) t_delete_message FROM refund;

CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;

CREATE VIEW v_refund_display AS SELECT *,(SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id AND o.d_date<=date('now')) AS f_TODAYAMOUNT,
WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id AND o.t_template=’N’) AS d_LASTDATE FROM v_refund;

CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template=’N’) AS f_CURRENTAMOUNT FROM payee;

CREATE VIEW v_payee_display AS SELECT * FROM v_payee;

CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;

CREATE VIEW v_payee_delete AS SELECT *, t_name AS t_displayname FROM payee;

CREATE VIEW v_category AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||’%’) AND t_status=’Y’) THEN ‘Vous n’êtes pas autorisés à supprimer cette catégorie car utilisée par des opérations rapprochées’ END) t_delete_message FROM category;

CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE v_category.t_fullname||’%’) AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like v_category.t_fullname||’%’) AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked=’Y’ THEN ’Oui’ ELSE ‘Non’ END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN ’Dépense’ WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN ’Révenu’ ELSE ’Autre’ END) AS t_TYPETYPEEXPENSENLs FROM vm_category_display_tmp;

CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.ID;

CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;

CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;

CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;

CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||f_rate||’%’ AS t_displayname FROM interest;

CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id_target),'') AS t_CATEGORY, (CASE WHEN budgetrule.i_condition=-1 THEN ’Négatif’ WHEN budgetrule.i_condition=1 THEN ’Positif’ WHEN budgetrule.i_condition=0 THEN ’Tous’ END) AS t_WHENLS, f_quantity||(CASE WHEN budgetrule.t_absolute=’N’ THEN ’%’ ELSE (SELECT t_symbol FROM unit WHERE t_type=’1’) END) AS v_budgetrule.f_CURRENTAMOUNT FROM v_budgetrule;
t_WHATNLS, (CASE WHEN budgetrule.t_rule='N' THEN 'Suivant' WHEN budgetrule.t_rule='Y' THEN 'Annee' END) AS t_RULENLS FROM budgetrule;
CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budgetrule_display AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budgetrule_displayname AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budget_tmp AS SELECT * FROM v_budgetrule;
CREATE VIEW v_budget AS SELECT * FROM v_budget;
CREATE VIEW v_budget_display AS SELECT * FROM v_budget;
CREATE TRIGGER fkdc_bank_parameters_uuid BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'bank'; END;
CREATE TRIGGER fkdc_account_parameters_uuid BEFORE DELETE ON account FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'account'; END;
CREATE TRIGGER fkdc_unit_parameters_uuid BEFORE DELETE ON unit FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unit'; END;
CREATE TRIGGER fkdc_unitvalue_parameters_uuid BEFORE DELETE ON unitvalue FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'unitvalue'; END;
CREATE TRIGGER fkdc_category_parameters_uuid BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'category'; END;
CREATE TRIGGER fkdc_operation_parameters_uuid BEFORE DELETE ON operation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'operation'; END;
CREATE TRIGGER fkdc_interest_parameters_uuid BEFORE DELETE ON interest FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'interest'; END;
CREATE TRIGGER fkdc_suboperation_parameters_uuid BEFORE DELETE ON suboperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'suboperation'; END;
CREATE TRIGGER fkdc_refund_parameters_uuid BEFORE DELETE ON refund FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'refund'; END;
CREATE TRIGGER fkdc_payee_parameters_uuid BEFORE DELETE ON payee FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;
CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation'; END;
CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule'; END;
CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget'; END;
CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule'; END;
CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN UPDATE category SET
t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name
END WHERE id=new.id;END;
CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR
rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE
c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;UPDATE category SET t_name=t_name
WHERE rd_category_id=new.id;END;
CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;
explain
SELECT TOTAL(f_CURRENTAMOUNT), d_DATEMONTH
from v_operation_display
WHERE d_DATEMONTH IN ('2012-05', '2012-04')
group by d_DATEMONTH, t_TYPEEXPENSE;
}
} {/.* Goto .*/}

# The next test requires FTS4
ifcapable !fts3 {
  finish_test
  return
}

# Taken from the gnome-shell project
#
# db close
forcedelete test.db
sqlite3 db test.db
do_test fuzz-oss1-gnomeshell {
  db eval {
    CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT
NULL, UNIQUE (Uri));
CREATE VIRTUAL TABLE fts USING fts4;
CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
"mfo:groupDefault" INTEGER, "mfo:groupDefault:graph" INTEGER,
"mfo:localLink" INTEGER, "mfo:localLink:graph" INTEGER, "mfo:optional"
INTEGER, "mfo:optional:graph" INTEGER);
CREATE TABLE "mfo:FeedChannel" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updatedTime" INTEGER, "mfo:updatedTime:graph" INTEGER,
"mfo:updatedTime:localDate" INTEGER, "mfo:updatedTime:localTime" INTEGER,
"mfo:unreadCount" INTEGER, "mfo:unreadCount:graph" INTEGER,
"mfo:totalCount" INTEGER, "mfo:totalCount:graph" INTEGER, "mfo:action" INTEGER, 
"mfo:action:graph" INTEGER, "mfo:type" INTEGER,
"mfo:type:graph" INTEGER);
CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER,
"mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER,
"mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL,
"mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
CREATE TABLE "mfo:FeedSettings" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:updateInterval" INTEGER, "mfo:updateInterval:graph" INTEGER,
"mfo:expiryInterval" INTEGER, "mfo:expiryInterval:graph" INTEGER,
"mfo:downloadPath" TEXT COLLATE NOCASE, "mfo:downloadPath:graph" INTEGER,
"mfo:downloadFlag" INTEGER, "mfo:downloadFlag:graph" INTEGER,
"mfo:maxSize" INTEGER, "mfo:maxSize:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL,
"mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL,
"mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL,
"mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL,
"mlo:asGeoPoint" INTEGER NOT NULL, "mlo:asGeoPoint:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL,
"mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL,
"mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL,
"mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL,
"mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL,
"mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL,
"mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL,
"mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL,
"mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER,
"mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL,
"mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT NULL,
"mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT NULL,
"mlo:belongsToCategory" INTEGER NOT NULL,
"mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:poiLocation" (ID INTEGER NOT NULL,
"mlo:poiLocation" INTEGER NOT NULL, "mlo:poiLocation:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL,
"mlo:boxEastLimit" INTEGER NOT NULL, "mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL,
"mlo:boxNorthLimit" INTEGER NOT NULL, "mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL,
"mlo:boxSouthWestCorner" INTEGER NOT NULL, "mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL,
"mlo:boxVerticalLimit" INTEGER NOT NULL, "mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL,
"mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER,
"mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL,
"mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL,
"mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER,
"mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer" (ID INTEGER NOT NULL PRIMARY KEY,
  "mto:transferState" INTEGER, "mto:transferState:graph" INTEGER,
  "mto:method" INTEGER, "mto:method:graph" INTEGER, "mto:created"
  INTEGER, "mto:created:graph" INTEGER, "mto:created:localDate" INTEGER,
  "mto:created:localTime" INTEGER, "mto:account" TEXT COLLATE NOCASE,
  "mto:account:graph" INTEGER, "mto:starter" INTEGER,
  "mto:starter:graph" INTEGER, "mto:agent" INTEGER, "mto:agent:graph"
  INTEGER);
CREATE TABLE "mto:TransferElement" (ID INTEGER NOT NULL PRIMARY KEY,
  "mto:source" INTEGER, "mto:source:graph" INTEGER, "mto:destination"
  INTEGER, "mto:destination:graph" INTEGER, "mto:startTime" INTEGER,
  "mto:startTime:graph" INTEGER, "mto:startTime:localDate" INTEGER,
  "mto:startTime:localTime" INTEGER, "mto:completedTime" INTEGER,
  "mto:completedTime:graph" INTEGER, "mto:completedTime:localDate"
  INTEGER, "mto:completedTime:localTime" INTEGER, "mto:state" INTEGER,
  "mto:state:graph" INTEGER);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL,
  "mto:transferList" INTEGER NOT NULL, "mto:transferList:graph"
  INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT
  NULL, "mto:transferPrivacyLevel" TEXT NOT NULL,
  "mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT
  NULL, "mto:transferCategory" TEXT NOT NULL,
  "mto:transferCategory:graph" INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY,
  "nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph"
  INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE, "nao:propertyValue:graph"
  INTEGER, "nao:propertyValue:graph" INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY,
  "nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER,
  "nao:description" TEXT COLLATE NOCASE, "nao:description:graph"
  INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL,
  "tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph"
  INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL,
  "tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph"
  INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY,
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm_ncal:action" (ID INTEGER NOT NULL,
"ncal:action" INTEGER NOT NULL, "ncal:action:graph" INTEGER);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER,
"ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER,
"ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER,
"ncal:attachmentContent" TEXT COLLATE NOCASE,
"ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:delegatedTo" INTEGER, "ncal:delegatedTo:graph" INTEGER,
"ncal:delegatedFrom" INTEGER, "ncal:delegatedFrom:graph" INTEGER,
"ncal:cutype" INTEGER, "ncal:cutype:graph" INTEGER, "ncal:member" INTEGER, "ncal:member:graph" INTEGER, "ncal:role" INTEGER,
"ncal:role:graph" INTEGER, "ncal:rsvp" INTEGER, "ncal:rsvp:graph" INTEGER, 
"ncal:partstat" INTEGER, "ncal:partstat:graph" INTEGER);
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:dir" INTEGER, "ncal:dir:graph" INTEGER,
"ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER,
"ncal:partstat" INTEGER, "ncal:partstat:graph" INTEGER);
CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:bydayModifier" INTEGER NOT NULL, "ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT NULL,
"ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph" INTEGER);
CREATE TABLE "ncal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:method" TEXT COLLATE NOCASE, "ncal:method:graph" INTEGER,
"ncal:method" INTEGER, "ncal:method:graph" INTEGER, "ncal:version" TEXT COLLATE NOCASE,
"ncal:version:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL,
"ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER,
"ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
"ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL, "ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER, "ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate" INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER, "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER, "ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal: ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER, "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL, "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL, "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL, "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL, "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL, "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysecond" (ID INTEGER NOT NULL, "ncal:bysecond" INTEGER NOT NULL, "ncal:bysecond:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bysetpos" (ID INTEGER NOT NULL, "ncal:bysetpos" INTEGER NOT NULL, "ncal:bysetpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekpos" (ID INTEGER NOT NULL, "ncal:byweekpos" INTEGER NOT NULL, "ncal:byweekpos:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweeknumber" (ID INTEGER NOT NULL, "ncal:byweeknumber" INTEGER NOT NULL, "ncal:byweeknumber:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byweekday" (ID INTEGER NOT NULL, "ncal:byweekday" INTEGER NOT NULL, "ncal:byweekday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byyearday" (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofweek" (ID INTEGER NOT NULL, "ncal:bydayofweek" INTEGER NOT NULL, "ncal:bydayofweek:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofmonth" (ID INTEGER NOT NULL, "ncal:bydayofmonth" INTEGER NOT NULL, "ncal:bydayofmonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofyear" (ID INTEGER NOT NULL, "ncal:bydayofyear" INTEGER NOT NULL, "ncal:bydayofyear:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminuteofday" (ID INTEGER NOT NULL, "ncal:byminuteofday" INTEGER NOT NULL, "ncal:byminuteofday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminuteofweek" (ID INTEGER NOT NULL, "ncal:byminuteofweek" INTEGER NOT NULL, "ncal:byminuteofweek:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminuteofmonth" (ID INTEGER NOT NULL, "ncal:byminuteofmonth" INTEGER NOT NULL, "ncal:byminuteofmonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminuteofyear" (ID INTEGER NOT NULL, "ncal:byminuteofyear" INTEGER NOT NULL, "ncal:byminuteofyear:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhourofday" (ID INTEGER NOT NULL, "ncal:byhourofday" INTEGER NOT NULL, "ncal:byhourofday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhourofweek" (ID INTEGER NOT NULL, "ncal:byhourofweek" INTEGER NOT NULL, "ncal:byhourofweek:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhourofmonth" (ID INTEGER NOT NULL, "ncal:byhourofmonth" INTEGER NOT NULL, "ncal:byhourofmonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhourofyear" (ID INTEGER NOT NULL, "ncal:byhourofyear" INTEGER NOT NULL, "ncal:byhourofyear:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofweekofmonth" (ID INTEGER NOT NULL, "ncal:bydayofweekofmonth" INTEGER NOT NULL, "ncal:bydayofweekofmonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofweekofyear" (ID INTEGER NOT NULL, "ncal:bydayofweekofyear" INTEGER NOT NULL, "ncal:bydayofweekofyear:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofmonthofyear" (ID INTEGER NOT NULL, "ncal:bydayofmonthofyear" INTEGER NOT NULL, "ncal:bydayofmonthofyear:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofmonthofweek" (ID INTEGER NOT NULL, "ncal:bydayofmonthofweek" INTEGER NOT NULL, "ncal:bydayofmonthofweek:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofyearofmonth" (ID INTEGER NOT NULL, "ncal:bydayofyearofmonth" INTEGER NOT NULL, "ncal:bydayofyearofmonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofyearofweek" (ID INTEGER NOT NULL, "ncal:bydayofyearofweek" INTEGER NOT NULL, "ncal:bydayofyearofweek:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofyearofday" (ID INTEGER NOT NULL, "ncal:bydayofyearofday" INTEGER NOT NULL, "ncal:bydayofyearofday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofyearofdayofmonth" (ID INTEGER NOT NULL, "ncal:bydayofyearofdayofmonth" INTEGER NOT NULL, "ncal:bydayofyearofdayofmonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofyearofdayofweek" (ID INTEGER NOT NULL, "ncal:bydayofyearofdayofweek" INTEGER NOT NULL, "ncal:bydayofyearofdayofweek:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofyearofdayofmonthofyear" (ID INTEGER NOT NULL, "ncal:bydayofyearofdayofmonthofyear" INTEGER NOT NULL, "ncal:bydayofyearofdayofmonthofyear:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofyearofdayofmonthofweek" (ID INTEGER NOT NULL, "ncal:bydayofyearofdayofmonthofweek" INTEGER NOT NULL, "ncal:bydayofyearofdayofmonthofweek:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bydayofyearofdayofmonthofweekofyear" (ID INTEGER NOT NULL, "ncal:bydayofyearofdayofmonthofweekofyear" INTEGER NOT NULL, "ncal:bydayofyearofdayofmonthofweekofyear:graph" INTEGER);
| CREATE TABLE | ncal:RecurrenceRule_ncal:byweekno | (ID INTEGER NOT NULL, "ncal:byweekno" INTEGER NOT NULL, "ncal:byweekno:graph" INTEGER); |
| CREATE TABLE | ncal:RecurrenceRule_ncal:byyearday | (ID INTEGER NOT NULL, "ncal:byyearday" INTEGER NOT NULL, "ncal:byyearday:graph" INTEGER); |
| CREATE TABLE | ncal:RequestStatus | (ID INTEGER NOT NULL PRIMARY KEY, "ncal:statusDescription" TEXT COLLATE NOCASE, "ncal:statusDescription:graph" INTEGER, "ncal:returnStatus" TEXT COLLATE NOCASE, "ncal:returnStatus:graph" INTEGER, "ncal:requestStatusData" TEXT COLLATE NOCASE, "ncal:requestStatusData:graph" INTEGER); |
| CREATE TABLE | ncal:TimeTransparency | (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE | ncal:TodoStatus | (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE | ncal:Trigger | (ID INTEGER NOT NULL PRIMARY KEY, "ncal:related" INTEGER, "ncal:related:graph" INTEGER, "ncal:triggerDateTime" INTEGER, "ncal:triggerDateTime:graph" INTEGER, "ncal:triggerDateTime:localDate" INTEGER, "ncal:triggerDateTime:localTime" INTEGER, "ncal:triggerDuration" INTEGER, "ncal:triggerDuration:graph" INTEGER); |
| CREATE TABLE | ncal:TriggerRelation | (ID INTEGER NOT NULL PRIMARY KEY); |
"ncal:uid:graph" INTEGER, "ncal:requestStatus" INTEGER,
"ncal:requestStatus:graph" INTEGER, "ncal:recurrenceId" INTEGER,
"ncal:recurrenceId:graph" INTEGER, "ncal:dtstamp" INTEGER,
"ncal:dtstamp:graph" INTEGER, "ncal:dtstamp:localDate" INTEGER,
"ncal:dtstamp:localTime" INTEGER, "ncal:class" INTEGER,
"ncal:class:graph" INTEGER, "ncal:organizer" INTEGER,
"ncal:organizer:graph" INTEGER, "ncal:dtend" INTEGER,
"ncal:dtend:graph" INTEGER, "ncal:summary" TEXT COLLATE NOCASE,
"ncal:summary:graph" INTEGER, "ncal:descriptionAltRep" INTEGER,
"ncal:descriptionAltRep:graph" INTEGER, "ncal:commentAltRep" INTEGER,
"ncal:commentAltRep:graph" INTEGER, "ncal:sequence" INTEGER,
"ncal:sequence:graph" INTEGER, "ncal:contact" TEXT COLLATE NOCASE,
"ncal:contact:graph" INTEGER, "ncal:contactAltRep" INTEGER,
"ncal:locationAltRep" INTEGER, "ncal:locationAltRep:graph" INTEGER,
"ncal:geo:graph" INTEGER, "ncal:resourcesAltRep" INTEGER,
"ncal:resourcesAltRep:graph" INTEGER, "ncal:dtstart" INTEGER,
"ncal:dtstart:graph" INTEGER, "ncal:description:graph" INTEGER,
"ncal:relatedToSibling" TEXT COLLATE NOCASE, "ncal:relatedToSibling:graph" INTEGER, "ncal:duration"
"ncal:duration:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL,
"ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT
NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT
NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL,
"ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL,
"ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT
NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT
NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph"
INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL,
"ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER
NOT NULL, "ncal:relatedToChild" TEXT NOT NULL,
"ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER
NOT NULL, "ncal:relatedToParent" TEXT NOT NULL,
"ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT
NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph"
INTEGER);
CREATE TABLE "nco:Contact_scal:birthday" (ID INTEGER NOT NULL, "scal:anniversary" INTEGER NOT NULL, "scal:anniversary:graph" INTEGER);
CREATE TABLE "nco:DomesticDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:EmailAddress" (ID INTEGER NOT NULL PRIMARY KEY, "nco:emailAddress" TEXT COLLATE NOCASE UNIQUE, "nco:emailAddress:graph" INTEGER);
CREATE TABLE "nco:FaxNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Gender" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IMAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nco:imAccountAddress" INTEGER UNIQUE, "nco:imAccountAddress:graph" INTEGER, "nco:imAccountType" TEXT COLLATE NOCASE, "nco:imAccountType:graph" INTEGER, "nco:imDisplayName" TEXT COLLATE NOCASE, "nco:imDisplayName:graph" INTEGER, "nco:imEnabled" INTEGER, "nco:imEnabled:graph" INTEGER);
CREATE TABLE "nco:IMAddress_nco:imCapability" (ID INTEGER NOT NULL, "nco:imCapability" INTEGER NOT NULL, "nco:imCapability:graph" INTEGER);
CREATE TABLE "nco:IMCapability" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:InternationalDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:IsdnNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:MessagingNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ModemNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:OrganizationContact" (ID INTEGER NOT NULL PRIMARY KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL, "nco:hasAffiliation" INTEGER NOT NULL, "nco:hasAffiliation:graph" INTEGER);
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL, "nco:hasPhoneNumber" INTEGER NOT NULL, "nco:hasPhoneNumber:graph" INTEGER);
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL, "nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url" INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL, "nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph" INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL, "nfo:containsBookmark" INTEGER NOT NULL, "nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL, "nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:originalLocation" TEXT COLLATE NOCASE, "nfo:originalLocation:graph" INTEGER, "nfo:deletionDate" INTEGER, "nfo:deletionDate:graph" INTEGER, "nfo:deletionDate:localDate" INTEGER);
CREATE TABLE "nfo:MediaFileListEntry" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:listPosition" REAL, "nfo:listPosition:graph" INTEGER, "nfo:entryUrl" TEXT COLLATE NOCASE, "nfo:entryUrl:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER, "nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL, "nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL, "nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden" INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL, "nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph" INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:PaginatedTextDocument" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:pageCount" INTEGER, "nfo:pageCount:graph" INTEGER);
CREATE TABLE "nfo:PlainTextDocument" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Presentation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RasterImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RegionOfInterest" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:regionOfInterestX" REAL, "nfo:regionOfInterestX:graph" INTEGER,
"nfo:regionOfInterestY" REAL, "nfo:regionOfInterestY:graph" INTEGER,
"nfo:regionOfInterestWidth" REAL, "nfo:regionOfInterestWidth:graph" INTEGER,
"nfo:regionOfInterestHeight" REAL,
"nfo:regionOfInterestHeight:graph" INTEGER, "nfo:regionOfInterestType"
INTEGER, "nfo:regionOfInterestType:graph" INTEGER, "nfo:roiRefersTo"
INTEGER, "nfo:roiRefersTo:graph" INTEGER);
CREATE TABLE "nfo:RegionOfInterestContent" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemoteDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:RemotePortAddress" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Software" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:conflicts" INTEGER, "nfo:conflicts:graph" INTEGER,
"nfo:supercedes" INTEGER, "nfo:supercedes:graph" INTEGER,
"nfo:softwareIcon" INTEGER, "nfo:softwareIcon:graph" INTEGER,
"nfo:softwareCmdLine" TEXT COLLATE NOCASE,
"nfo:softwareCmdLine:graph" INTEGER);
CREATE TABLE "nfo:SoftwareApplication" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:softwareCategoryIcon" INTEGER, "nfo:softwareCategoryIcon:graph"
INTEGER);
CREATE TABLE "nfo:SoftwareItem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SoftwareService" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:SourceCode" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:commentCharacterCount" INTEGER, "nfo:commentCharacterCount:graph"
INTEGER, "nfo:programmingLanguage" TEXT COLLATE NOCASE,
"nfo:programmingLanguage:graph" INTEGER, "nfo:definesClass" TEXT
COLLATE NOCASE, "nfo:definesClass:graph" INTEGER,
"nfo:definesFunction" TEXT COLLATE NOCASE,
"nfo:definesFunction:graph" INTEGER, "nfo:definesGlobalVariable" TEXT
COLLATE NOCASE, "nfo:definesGlobalVariable:graph" INTEGER);
CREATE TABLE "nfo:Spreadsheet" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:TextDocument" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:wordCount" INTEGER, "nfo:wordCount:graph" INTEGER,
"nfo:lineCount" INTEGER, "nfo:lineCount:graph" INTEGER,
"nfo:characterCount" INTEGER, "nfo:characterCount:graph" INTEGER);
CREATE TABLE "nfo:Trash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:VectorImage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Video" (ID INTEGER NOT NULL PRIMARY KEY,
"nfo:frameRate" REAL, "nfo:frameRate:graph" INTEGER, "nfo:frameCount"
INTEGER, "nfo:frameCount:graph" INTEGER, "nfo:averageVideoBitrate"
REAL, "nfo:averageVideoBitrate:graph" INTEGER);
CREATE TABLE "nfo:Visual" (ID INTEGER NOT NULL PRIMARY KEY,
"nie:contentCreated" INTEGER, "nie:contentCreated:graph" INTEGER,
"nie:contentCreated:localDate" INTEGER, "nie:contentCreated:localTime"
INTEGER, "nfo:aspectRatio" REAL, "nfo:aspectRatio:graph" INTEGER,
"nfo:heading" REAL, "nfo:heading:graph" INTEGER, "nfo:tilt" REAL,
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph" INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER, "nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph" INTEGER);
CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER, "nmm:musicCDIdentifier" TEXT COLLATE NOCASE, "nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER, "nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL, "nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:MusicPiece_nmm:lyrics" (ID INTEGER NOT NULL, "nmm:lyrics" INTEGER NOT NULL, "nmm:lyrics:graph" INTEGER);
CREATE TABLE "nmm:Photo" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:exposureTime" REAL, "nmm:exposureTime:graph" INTEGER, "nmm:flash" INTEGER, "nmm:flash:graph" INTEGER, "nmm:fnumber" REAL,
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE, "nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered" INTEGER, "nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER, "nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER, "nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph" INTEGER, "nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER, "nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER, "nmo:htmlMessageContent" TEXT COLLATE NOCASE, "nmo:htmlMessageContent:graph" INTEGER, "nmo:messageId" TEXT COLLATE NOCASE, "nmo:messageId:graph" INTEGER, "nmo:messageSubject" TEXT COLLATE NOCASE, "nmo:messageSubject:graph" INTEGER, "nmo:receivedDate" INTEGER, "nmo:receivedDate:graph" INTEGER,
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER, "nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER, "nmo:contentDisposition" TEXT COLLATE NOCASE, "nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL, "nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL, "nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER);
CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE, "nmo:phoneMessageFolderId:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER);
CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL, "nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER);
CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL, "rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER);
CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:notify" INTEGER, "tracker:notify:graph" INTEGER);
CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL, "rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER);
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL, "tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL,
"scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL,
"scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL,
"scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL,
"scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL,
"scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:textLocation" INTEGER, "scal:textLocation:graph" INTEGER,
"scal:resources" TEXT COLLATE NOCASE, "scal:resources:graph" INTEGER,
"scal:transparency" INTEGER, "scal:transparency:graph" INTEGER,
"scal:calendarItemAlarm" INTEGER, "scal:calendarItemAlarm:graph" INTEGER,
"scal:start" INTEGER, "scal:start:graph" INTEGER, "scal:end" INTEGER, "scal:end:graph" INTEGER,
"scal:isAllDay" INTEGER, "scal:isAllDay:graph" INTEGER,
"scal:priority" INTEGER, "scal:priority:graph" INTEGER, "scal:rdate" INTEGER,
"scal:rdate:graph" INTEGER, "scal:exceptionRDate" INTEGER,
"scal:exceptionRDate:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL,
"scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL,
"scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL,
"scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL,
"scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL,
"scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL,
"scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
  "scal:recurrencePattern" TEXT COLLATE NOCASE,
  "scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate" INTEGER,
  "scal:recurrenceStartDate:graph" INTEGER, "scal:exception" INTEGER,
  "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY,
  "scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER,
  "scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER,
  "scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
  "scal:todoStatus" INTEGER, "scal:todoStatus:graph" INTEGER, "scal:due" INTEGER,
  "scal:due:graph" INTEGER, "scal:completed" INTEGER,
  "scal:completed:graph" INTEGER, "scal:percentComplete" INTEGER,
  "scal:percentComplete:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude" REAL,
  "slo:longitude:graph" INTEGER, "slo:verticalAccuracy" REAL,
  "slo:verticalAccuracy:graph" INTEGER, "slo:horizontalAccuracy" REAL,
  "slo:horizontalAccuracy:graph" INTEGER, "slo:altitude" REAL,
  "slo:altitude:graph" INTEGER, "slo:boundingLatitudeMin" REAL,
  "slo:boundingLatitudeMin:graph" INTEGER, "slo:boundingLatitudeMax" REAL,
  "slo:boundingLatitudeMax:graph" INTEGER, "slo:boundingLongitudeMin" REAL,
  "slo:boundingLongitudeMin:graph" INTEGER, "slo:boundingLongitudeMax" REAL,
  "slo:boundingLongitudeMax:graph" INTEGER, "slo:radius" REAL,
  "slo:radius:graph" INTEGER, "slo:timestamp" INTEGER,
  "slo:timestamp:graph" INTEGER, "slo:timestamp:localDate" INTEGER,
  "slo:timestamp:localTime" INTEGER, "slo:postalAddress" INTEGER,
  "slo:postalAddress:graph" INTEGER);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER,
  "slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT NULL,
  "slo:belongsToCategory" INTEGER NOT NULL,
  "slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL,
  "slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
  "slo:startTime" INTEGER, "slo:startTime:graph" INTEGER,
  "slo:startTime:localDate" INTEGER, "slo:startTime:localTime" INTEGER,
  "slo:endTime" INTEGER, "slo:endTime:graph" INTEGER,
  "slo:endTime:localDate" INTEGER, "slo:endTime:localTime" INTEGER);
CREATE TABLE "slo:Route_slo:routeDetails" (ID INTEGER NOT NULL, "slo:routeDetails" TEXT NOT NULL, "slo:routeDetails:graph" INTEGER);
CREATE TABLE "tracker:Namespace" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:prefix" TEXT COLLATE NOCASE, "tracker:prefix:graph" INTEGER);
CREATE TABLE "tracker:Ontology" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "tracker:Volume" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:isMounted" INTEGER, "tracker:isMounted:graph" INTEGER, "tracker:unmountDate" INTEGER, "tracker:unmountDate:graph" INTEGER, "tracker:unmountDate:localDate" INTEGER, "tracker:unmountDate:localTime" INTEGER, "tracker:mountPoint" INTEGER, "tracker:mountPoint:graph" INTEGER, "tracker:isRemovable" INTEGER, "tracker:isOptical" INTEGER, "tracker:isOptical:graph" INTEGER);
CREATE UNIQUE INDEX "mfo:FeedMessage_mfo:enclosureList_ID_ID" ON "mfo:FeedMessage_mfo:enclosureList" (ID, "mfo:enclosureList");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbNorthWest_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID, "mlo:bbNorthWest");
CREATE UNIQUE INDEX "mlo:GeoBoundingBox_mlo:bbSouthEast_ID_ID" ON "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID, "mlo:bbSouthEast");
CREATE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asBoundingBox_ID_ID" ON "mlo:GeoLocation_mlo:asBoundingBox" ("mlo:asBoundingBox", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asGeoPoint_ID_ID" ON "mlo:GeoLocation_mlo:asGeoPoint" ("mlo:asGeoPoint", ID);
CREATE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" (ID);
CREATE UNIQUE INDEX "mlo:GeoLocation_mlo:asPostalAddress_ID_ID" ON "mlo:GeoLocation_mlo:asPostalAddress" ("mlo:asPostalAddress", ID);
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:address_ID_ID" ON "mlo:GeoPoint_mlo:address" (ID, "mlo:address");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:altitude_ID_ID" ON "mlo:GeoPoint_mlo:altitude" (ID, "mlo:altitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:city_ID_ID" ON "mlo:GeoPoint_mlo:city" (ID, "mlo:city");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:country_ID_ID" ON "mlo:GeoPoint_mlo:country" (ID, "mlo:country");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:latitude_ID_ID" ON "mlo:GeoPoint_mlo:latitude" (ID, "mlo:latitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:longitude_ID_ID" ON "mlo:GeoPoint_mlo:longitude" (ID, "mlo:longitude");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:state_ID_ID" ON "mlo:GeoPoint_mlo:state" (ID, "mlo:state");
CREATE UNIQUE INDEX "mlo:GeoPoint_mlo:timestamp_ID_ID" ON "mlo:GeoPoint_mlo:timestamp" (ID, "mlo:timestamp");
CREATE UNIQUE INDEX "mlo:GeoSphere_mlo:radius_ID_ID" ON "mlo:GeoSphere_mlo:radius" (ID, "mlo:radius");
CREATE UNIQUE INDEX "mlo:LandmarkCategory_mlo:isRemovable_ID_ID" ON "mlo:LandmarkCategory_mlo:isRemovable" (ID, "mlo:isRemovable");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:belongsToCategory_ID_ID" ON "mlo:Landmark_mlo:belongsToCategory" (ID, "mlo:belongsToCategory");
CREATE UNIQUE INDEX "mlo:Landmark_mlo:poiLocation_ID_ID" ON "mlo:Landmark_mlo:poiLocation" (ID, "mlo:poiLocation");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxEastLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID, "mlo:boxEastLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxNorthLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID, "mlo:boxNorthLimit");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxSouthWestCorner_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID, "mlo:boxSouthWestCorner");
CREATE UNIQUE INDEX "mlo:LocationBoundingBox_mlo:boxVerticalLimit_ID_ID" ON "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID, "mlo:boxVerticalLimit");
CREATE UNIQUE INDEX "mlo:Route_mlo:endTime_ID_ID" ON "mlo:Route_mlo:endTime" (ID, "mlo:endTime");
CREATE UNIQUE INDEX "mlo:Route_mlo:routeDetails_ID_ID" ON "mlo:Route_mlo:routeDetails" (ID, "mlo:routeDetails");
CREATE UNIQUE INDEX "mlo:Route_mlo:startTime_ID_ID" ON "mlo:Route_mlo:startTime" (ID, "mlo:startTime");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferList_ID_ID" ON "mto:Transfer_mto:transferList" (ID, "mto:transferList");
CREATE UNIQUE INDEX "mto:Transfer_mto:transferPrivacyLevel_ID_ID" ON "mto:Transfer_mto:transferPrivacyLevel" (ID, "mto:transferPrivacyLevel");
CREATE UNIQUE INDEX "mto:UploadTransfer_mto:transferCategory_ID_ID" ON "mto:UploadTransfer_mto:transferCategory" (ID, "mto:transferCategory");
CREATE UNIQUE INDEX "nao:Tag_tracker:isDefaultTag_ID_ID" ON "nao:Tag_tracker:isDefaultTag" (ID, "tracker:isDefaultTag");
CREATE UNIQUE INDEX "nao:Tag_tracker:tagRelatedTo_ID_ID" ON "nao:Tag_tracker:tagRelatedTo" (ID, "tracker:tagRelatedTo");
CREATE UNIQUE INDEX "ncal:Alarm_ncal:action_ID_ID" ON "ncal:Alarm_ncal:action" (ID, "ncal:action");
CREATE UNIQUE INDEX "ncal:BydayRulePart_ncal:bydayModifier_ID_ID" ON "ncal:BydayRulePart_ncal:bydayModifier" (ID, "ncal:bydayModifier");
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON "ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rrule_ID_ID" ON "ncal:UnionParentClass_ncal:rrule" (ID, "ncal:rrule");
CREATE UNIQUE INDEX "nco:Affiliation_nco:title_ID_ID" ON "nco:Affiliation_nco:title" (ID, "nco:title");
CREATE UNIQUE INDEX "nco:ContactList_nco:containsContact_ID_ID" ON "nco:ContactList_nco:containsContact" (ID, "nco:containsContact");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON "nco:Contact_ncal:anniversary" (ID, "ncal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON "nco:Contact_ncal:birthday" (ID, "ncal:birthday");
CREATE UNIQUE INDEX "nco:Contact_nco:belongsToGroup_ID_ID" ON "nco:Contact_nco:belongsToGroup" (ID, "nco:belongsToGroup");
CREATE UNIQUE INDEX "nco:Contact_nco:note_ID_ID" ON "nco:Contact_nco:note" (ID, "nco:note");
CREATE UNIQUE INDEX "nco:Contact_ncal:anniversary_ID_ID" ON "nco:Contact_ncal:anniversary" (ID, "scal:anniversary");
CREATE UNIQUE INDEX "nco:Contact_ncal:birthday_ID_ID" ON "nco:Contact_ncal:birthday" (ID, "scal:birthday");
CREATE UNIQUE INDEX "nco:IMAccount_nco:hasIMContact_ID_ID" ON "nco:IMAccount_nco:hasIMContact" (ID, "nco:hasIMContact");
CREATE UNIQUE INDEX "nco:IMAddress_nco:imCapability_ID_ID" ON "nco:IMAddress_nco:imCapability" (ID, "nco:imCapability");
CREATE UNIQUE INDEX "nco:PersonContact_nco:hasAffiliation_ID_ID" ON "nco:PersonContact_nco:hasAffiliation" (ID, "nco:hasAffiliation");
CREATE INDEX "nco:PersonContact_nco:nameFamily" ON "nco:PersonContact" ("nco:nameFamily");
CREATE INDEX "nco:PhoneNumber_nco:phoneNumber" ON "nco:PhoneNumber" ("nco:phoneNumber");
CREATE UNIQUE INDEX "nco:Role_nco:blogUrl_ID_ID" ON "nco:Role_nco:blogUrl" (ID, "nco:blogUrl");
CREATE UNIQUE INDEX "nco:Role_nco:foafUrl_ID_ID" ON "nco:Role_nco:foafUrl" (ID, "nco:foafUrl");
CREATE UNIQUE INDEX "nco:Role_nco:hasContactMedium_ID_ID" ON "nco:Role_nco:hasContactMedium" (ID, "nco:hasContactMedium");
CREATE INDEX "nco:Role_nco:hasEmailAddress_ID" ON "nco:Role_nco:hasEmailAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasEmailAddress_ID_ID" ON "nco:Role_nco:hasEmailAddress" ("nco:hasEmailAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasIMAddress_ID_ID" ON "nco:Role_nco:hasIMAddress" (ID, "nco:hasIMAddress");
CREATE UNIQUE INDEX "nco:Role_nco:hasPhoneNumber_ID_ID" ON "nco:Role_nco:hasPhoneNumber" (ID, "nco:hasPhoneNumber");
CREATE INDEX "nco:Role_nco:hasPostalAddress_ID" ON "nco:Role_nco:hasPostalAddress" (ID);
CREATE UNIQUE INDEX "nco:Role_nco:hasPostalAddress_ID_ID" ON "nco:Role_nco:hasPostalAddress" ("nco:hasPostalAddress", ID);
CREATE UNIQUE INDEX "nco:Role_nco:url_ID_ID" ON "nco:Role_nco:url" (ID, "nco:url");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON "nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmark" (ID, "nfo:containsBookmarkFolder");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON "nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList_nfo:hasMediaFileListEntry" (ID, "nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_nmm:alternativeMedia_ID_ID" ON "nfo:Media_nmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nfo:Visual_nie:contentCreated" ON "nfo:Visual" ("nie:contentCreated");
CREATE UNIQUE INDEX "nid3:ID3Audio_nid3:leadArtist_ID_ID" ON "nid3:ID3Audio_nid3:leadArtist" (ID, "nid3:leadArtist");
CREATE UNIQUE INDEX "nie:DataObject_nie:dataSource_ID_ID" ON "nie:DataObject_nie:dataSource" (ID, "nie:dataSource");
CREATE UNIQUE INDEX "nie:DataObject_nie:isPartOf_ID_ID" ON "nie:DataObject_nie:isPartOf" (ID, "nie:isPartOf");
CREATE INDEX "nie:DataObject_nie:url" ON "nie:DataObject" ("nie:url");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON "nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON "nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON "nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON "nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON "nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:informationElementDate_ID_ID" ON "nie:InformationElement_nie:informationElementDate" (ID, "nie:informationElementDate");
CREATE INDEX "nmo:Message_nmo:from" ON "nmo:Message" ("nmo:from");
CREATE UNIQUE INDEX "nmo:Message_nmo:hasAttachment_ID_ID" ON "nmo:Message_nmo:hasAttachment" (ID, "nmo:hasAttachment");
CREATE UNIQUE INDEX "nmo:Message_nmo:inReplyTo_ID_ID" ON "nmo:Message_nmo:inReplyTo" (ID, "nmo:inReplyTo");
CREATE UNIQUE INDEX "nmo:Message_nmo:messageHeader_ID_ID" ON "nmo:Message_nmo:messageHeader" (ID, "nmo:messageHeader");
CREATE UNIQUE INDEX "nmo:Message_nmo:recipient_ID_ID" ON "nmo:Message_nmo:recipient" (ID, "nmo:recipient");
CREATE UNIQUE INDEX "nmo:Message_nmo:references_ID_ID" ON "nmo:Message_nmo:references" (ID, "nmo:references");
CREATE INDEX "nmo:Message_nmo:sender" ON "nmo:Message" ("nmo:sender");
CREATE INDEX "nmo:Message_nmo:sentDate" ON "nmo:Message" ("nmo:sentDate");
CREATE INDEX "nmo:Message_nmo:to_ID" ON "nmo:Message_nmo:to" (ID);
CREATE UNIQUE INDEX "nmo:Message_nmo:to_ID_ID" ON "nmo:Message_nmo:to" ("nmo:to", ID);
CREATE UNIQUE INDEX "nmo:MimePart_nmo:mimeHeader_ID_ID" ON "nmo:MimePart_nmo:mimeHeader" (ID, "nmo:mimeHeader");
CREATE UNIQUE INDEX "nmo:Multipart_nmo:partBoundary_ID_ID" ON "nmo:Multipart_nmo:partBoundary" (ID, "nmo:partBoundary");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID, "nmo:containsPhoneMessageFolder");
CREATE UNIQUE INDEX "nmo:PhoneMessageFolder_nmo:containsPhoneMessage_ID_ID" ON "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID, "nmo:containsPhoneMessage");
CREATE UNIQUE INDEX "nmo:PhoneMessage_nmo:toVCard_ID_ID" ON "nmo:PhoneMessage_nmo:toVCard" (ID, "nmo:toVCard");
CREATE UNIQUE INDEX "rdf:Property_rdfs:subPropertyOf_ID_ID" ON "rdf:Property_rdfs:subPropertyOf" (ID, "rdfs:subPropertyOf");
CREATE UNIQUE INDEX "rdfs:Class_rdfs:subClassOf_ID_ID" ON "rdfs:Class_rdfs:subClassOf" (ID, "rdfs:subClassOf");
CREATE UNIQUE INDEX "rdfs:Class_tracker:domainIndex_ID_ID" ON "rdfs:Class_tracker:domainIndex" (ID, "tracker:domainIndex");
CREATE UNIQUE INDEX "rdfs:Resource_dc:contributor_ID_ID" ON "rdfs:Resource_dc:contributor" (ID, "dc:contributor");
CREATE UNIQUE INDEX "rdfs:Resource_dc:date_ID_ID" ON "rdfs:Resource_dc:date" (ID, "dc:date");
CREATE UNIQUE INDEX "rdfs:Resource_nao:deprecated_ID_ID" ON "rdfs:Resource_nao:deprecated" (ID, "nao:deprecated");
CREATE INDEX "rdfs:Resource_nao:hasTag_ID" ON "rdfs:Resource_nao:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:hasTag_ID_ID" ON "rdfs:Resource_nao:hasTag" ("nao:hasTag", ID);
CREATE UNIQUE INDEX "rdfs:Resource_nao:isRelated_ID_ID" ON "rdfs:Resource_nao:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resource_rdf:type_ID_ID" ON "rdfs:Resource_rdf:type" (ID, "rdf:type");
CREATE INDEX "rdfs:Resource_tracker:added" ON "rdfs:Resource" ("tracker:added");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON "scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON "scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON "scal:Attendee_scal:member" (ID, "scal:member");
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON "scal:Attendee_scal:sent-by" (ID, "scal:sent-by");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON "scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON "scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON "scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID" ON "scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON "scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON "scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation" ("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON "slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON "slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON "slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificPrefix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameHonorificSuffix" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT...
FROM "nco:Role_nco:url" WHERE ID = "2_u"), ? COLLATE NOCASE),
'\u') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation8"."nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation8" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation8"."ID"), (SELECT GROUP_CONCAT("6_u", ',')) FROM (SELECT
"rdfs:Resource_nao:hasTag9"."nao:hasTag" AS "6_u" FROM
"rdfs:Resource_nao:hasTag" AS "rdfs:Resource_nao:hasTag9" WHERE
"1_u" = "rdfs:Resource_nao:hasTag9"."ID"), (SELECT Uri FROM
"nco:Affiliation_nco:title" WHERE ID = "2_u"), ? COLLATE NOCASE),
'\u') FROM (SELECT
"nco:PersonContact_nco:hasAffiliation10"."nco:hasAffiliation" AS
"2_u" FROM "nco:PersonContact_nco:hasAffiliation" AS
"nco:PersonContact_nco:hasAffiliation10" WHERE "1_u" =
"nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" AS

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 41616
"2_u", "nco:Role_nco:hasPostalAddress12", "nco:hasPostalAddress" AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation11", "nco:Role_nco:hasPostalAddress" AS "nco:Role_nco:hasPostalAddress12" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation11", "ID" AND "nco:PersonContact_nco:hasAffiliation11", "nco:hasAffiliation" = "nco:Role_nco:hasPostalAddress12", "ID")}, (SELECT GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT "nie:InformationElement_nao:hasProperty13", "nai:hasProperty" AS "8_u", "nai:PropertyName14" AS "9_u", "nai:Property14" AS "nai:propertyValue14" AS "10_u" FROM "nie:InformationElement_nao:hasProperty" AS "nie:InformationElement_nao:hasProperty13", "nai:Property14" WHERE "1_u" = "nie:InformationElement_nao:hasProperty13", "ID" AND "nie:InformationElement_nao:hasProperty13", "ID" AND "nie:InformationElement_nao:hasProperty13", "nai:hasProperty" = "nai:Property14", "ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT NULL AND ("9_u" COLLATE NOCASE = ? COLLATE NOCASE)) FROM (SELECT "nco:PersonContact1", "ID" AS "1_u" FROM "nco:PersonContact" AS "nco:PersonContact1") ORDER BY "1_u"
} {/.* Goto .*/}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

without a shared lock, other processes are free to modify the database

Found in path(s):
No license file was found, but licenses were detected in source scan.

<h3>Proprietary SQLite Extensions</h3>
<a href="copyright.html">public domain</a>. But there also exist proprietary, licensed extensions to SQLite, written and maintained
You are welcomed to use SQLite in closed source, proprietary, and/or

Found in path(s):
No license file was found, but licenses were detected in source scan.

)putinterval

Found in path(s):
  * 1 index 0(BadFont
No license file was found, but licenses were detected in source scan.

Suppose the demo_data.boundary field holds some proprietary data description

Found in path(s):
No license file was found, but licenses were detected in source scan.

<li>Sources are in the <a href="copyright.html">public domain</a>.
Rather than using fopen() to write XML or some proprietary format into

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS2 module.
#
#$Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

#if SQLITE_ENABLE_FTS2 is defined, omit this file.
if capable !fts2 {
    finish_test
    return
}
# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.

```javascript
# do_test fts2c-1.1 {
  db eval {
    CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
    BEGIN TRANSACTION;
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

    The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

    ?If the transaction volume on the child is less than half of the parent‟s minimum volume no hedge will occur.
    ?If the transaction volume on the child is more than half the parent‟s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent‟s minimum volume.
    ?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

    Please see example below:

    Parent‟s Settings:
    Minimum: 5000
    Increment: 1000

    Volume on Autohedge transaction Volume Hedged
    1 - 24990
    2500 - 54995000
    5500 - 64996000);
    INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI: If it’s ok with everyone‟s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);
    INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

    Employee Name: Christopher F. Calger
    Status last changed by: Mollie E. Gustafson Ms
    Expense Report Name: CC02.06.02
    Report Total: $3,972.93
    Amount Due Employee: $3,972.93

    To approve this expense report, click on the following link for Concur Expense:
    http://expensexms.enron.com');
```
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/rf/010129/n29305829.html');
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,
here is the original memo we discussed earlier. please provide any information that you may have.

your cooperation is greatly appreciated.

thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 pager

-----original message-----
from: bisbee, joanne
sent: wednesday, september 26, 2001 7:50 am
to: fenceroy, lachandra
subject: fw: bus applications meeting follow up

lachandra, please get with david duff today and see what this is about. who are our tw accounting business users?

-----original message-----
from: koh, wendy
sent: tuesday, september 25, 2001 2:41 pm
to: bisbee, joanne
subject: bus applications meeting follow up

lisa brought up a tw change effective nov 1. it involves eliminating a turnback surcharge. i have no other information, but you might check with the business folks for any system changes required.

wendy);
insert into email([from],[to],subject,body) values('danny.mccarty@enron.com', 'fran.fagan@enron.com', 're: worksheets', 'fran,
   if julie”s merit needs to be lump sum, just move it over to that column. also, send me eric gadd”s sheets as well.
thanks.

dan

-----original message-----
from: fagan, fran
sent: thursday, december 20, 2001 11:10 am
to: mccarty, danny
subject: worksheets

as discussed, attached are your sheets for bonus and merit.

thanks,

fran fagan
sr. hr rep
713.853.5219
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!

Here is the information on staffing and outside services. Call if you need anything else.

Jim

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages. In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc: Subject: About St Pauls

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.
Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com,
kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-
Revised_Reply_Brief_Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com,
lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00
AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com','rwolkwitz@powermerchants.com', "", 'Here is a goody for you:');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o''ourke@enron.com', 'k..allen@enron.com,
randy.bhatia@enron.com, frank.ermis@enron.com,','TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com,
ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ;
LS HPL LSK IC       30.000 / Enron
LS HPL LSK IC       30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??
Susan Pereira
');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com',
'Huber Internal Memo', 'Please look at this. I didn''t know how deep to go with the desk. Do you think this works.
');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', "", 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.');
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '---------------------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM --------------------------

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 41625
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
  

Thanks

-------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ---------------

From: William Kelly @ ECT  12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketplace

WK
An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com.', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm.tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]
[IMAGE][IMAGE][IMAGE]
Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]

')
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks! Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash Report Name: Houston Cellular 8-11-01 Report Date: 12/13/01 Report ID: 594D37C9ED2111D5B452 Submitted On: 12/13/01 You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.
Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: "smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?
Marcie


');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEndonXGate
cc: Ross Sankey/Enron@EUEndonXGate, Eric Shaw/ENRON@EUEndonXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.'
On the time line for completion, we have four critical steps to complete:
  Finalize market analysis to refine business case, specifically
  projected revenue stream
  Complete counterparty surveying, including targeting 3 CPs for letters
  of intent
  Review Enron asset base for potential reuse/ licensing
  Contract negotiations

Joe will come back to us with an updated time line, but it is my
expectation that we are still on the same schedule (we just begun week
three) with possibly a week or so slippage.....contract negotiations will
probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

---
Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc: 
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at
either HSC, Waha or Katytailgate GD at buyers option three days prior to
NYMEX close.

---
agedoddard@nisource.com on 03/08/2001 09:16:57 AM
To: "" - *Koch, Kent" <kkoch@nisource.com>, "" -
*Millar, Debra" <dmillar@nisource.com>, "" - *Burke, Lynn"
<burke@nisource.com>
cc: "" - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution”s Capacity Available for Release - Sum
Attached is Columbia Distribution’s notice of capacity available for release for

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed
at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,' , 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.' );
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,' , 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', ',' , 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332 the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', ' ' 

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com
Karim.

I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn’;

Shelley;

Sara Davidson;

Tori Kuykendall;
call you guys back -- looking forward to it -- i probably need the
directions again though);

INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',
'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG  3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you
complete her feedback by end of business Wednesday? It will really help me
in the PRC process to have your input. Thanks.

');

INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com',
'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as
well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',
'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com', 'Postings', 'Please see the
attached.
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com,', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', "', "hey big guy.....check this out.....

w ww.gorelieberman-2000.com'/);

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', "', "Jacques,

I sent you a fax of Kevin Kolb"s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).

This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca
-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email[from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com,,' 'Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email[from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, ' '-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');

INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');

INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:');

INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not. F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks! 
Best regards

Diana Seifert
EOL PCG');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'mark.whitt@enron.com', '<Concur Expense Document> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.'isspace);

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM
To:Storey, Geoff
Subject: RE:

bp corp
Albert LaMore
281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah
713-767-5374

Reliant
Steve McGinn
713-207-4000

LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost
here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John};
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com',
'schiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15,...talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyztoolzprint.jpg');
   COMMIT;
} {}
do_test fts2c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts2c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
  }
} {}
do_test fts2c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts2c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts2c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 [2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}
do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 [2 0 42 3 2 1 54 8 3 1 54 8]}
do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 [2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3]}
do_test fts2c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
  {20 {2 0 42 3 2 1 54 8}}
}
do_test fts2c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
  {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts2c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
  {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts2c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "'child product"
  }
  {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}
}

# Snippet generator tests
#
do_test fts2c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
  {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts2c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
  {{<b>...</b> place.? What do you think about going here <b>Christmas</b>eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts2c-4.3 {

execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
}
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> intent
    Review Enron asset base for potential/ licensing
    Contract negotiations }}
do_test fts2c-4.4 {
    execsql {
        SELECT snippet(email,'<<<','>>>',' ') FROM email
        WHERE email MATCH 'deal sheet potential reuse'
    }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
    Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
    Contract negotiations }}
do_test fts2c-4.5 {
    execsql {
        SELECT snippet(email,'<<<','>>>',' ') FROM email
        WHERE email MATCH 'first things'
    }
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts2c-4.6 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'chris is here'
    }
} {{chris.germany@enron.com Sounds good to me. I bet this is next to the Warick?? Hotel. place.? What do you think about going here Christmas eve?? They have an 11:00 a.m. place.? What do you think about going here Christmas eve?? They have an 11:00 a.m. }}
do_test fts2c-4.7 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH '"pursuant to"
    }
} {{Erin:

>Pursuant to your request, attached are the Schedule to ... }}
do_test fts2c-4.8 {
    execsql {
        SELECT snippet(email) FROM email
        WHERE email MATCH 'ancillary load davis'
    }
} {{pete.davis@enron.com Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded. Variances detected. Variances detected in Load schedule.}}

LOG MESSAGES:
# Combinations of AND and OR operators:
#
do_test fts2c-5.1 {
exsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b>/Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}
do_test fts2c-5.2 {
exsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b>/Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}

finish_test

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700/test/fts2c.test
No license file was found, but licenses were detected in source scan.

INSERT INTO x1 VALUES('blonds', 'proprietary');

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700/test/e_select.test
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
May you find forgiveness for yourself and forgive others.  
May you share freely, never taking more than you give.  

*************************************************************************  
This file implements regression tests for SQLite library. The focus of this script is testing the FTS1 module.  

# $Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp $  

set testdir [file dirname $argv0]  
source $testdir/tester.tcl  

# If SQLITE_ENABLE_FTS1 is defined, omit this file.  
if capable !fts1 {  
    finish_test  
    return  
}  

db eval {  
    CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);  
    BEGIN TRANSACTION;  
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,  
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following  
changes will be made to the Autohedge functionality on EnronOnline.  
The volume on the hedge will now respect the minimum volume and volume increment settings on the parent  
product. See rules below:  

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.  
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume  
increment on the parent, the hedge will volume will be the parent’s minimum volume.  
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.  

Please see example below:  

Parent’s Settings:  
Minimum: 5000  
Increment: 1000  

Volume on Autohedge transactionVolume Hedged  
1    - 24990  
2500 - 54995000
5500 - 64996000);
INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it's ok with everyone's needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o'clock hour just let me know; I'll be more than willing to stay.');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,

I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/tr/010129/n29305829.html);
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent: Friday, September 21, 2001 8:33 PM  
Subject: Producers Newsletter 9-24-2001  

');  
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.  

I spoke to Max and he agrees with this approach.  

I hope this meets with your approval.  

Regards  
Delainey');  
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,  

Here is the original memo we discussed earlier. Please provide any information that you may have.  

Your cooperation is greatly appreciated.  

Thanks,  

lachandra.fenceroy@enron.com  
713.853.3884  
877.498.3401 Pager  

-----Original Message-----  
From: Bisbee, Joanne  
Sent: Wednesday, September 26, 2001 7:50 AM  
To: Fenceroy, LaChandra  
Subject: FW: Bus Applications Meeting Follow Up  

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?  

-----Original Message-----  
From: Koh, Wendy  
Sent: Tuesday, September 25, 2001 2:41 PM  
To: Bisbee, Joanne  
Subject: Bus Applications Meeting Follow Up  

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.  

Wendy');
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.

Thanks.

Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!};
Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

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- OUTAGE.dbf
- 111201R.xls
- 111201.xls ')

You are invited to attend the EWS Brown Bag Lunch Series

Featuring:  RAY BOWEN, COO

Topic:  Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch,   Limited Seating
We provide drinks and dessert.   RSVP x 3-9610');

You bet this is next to the Warick?? Hotel.
Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url
LS HPL LSK IC 30.000 / Enron

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.

');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295

INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to
"unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "''Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhs.org>, "''Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
c:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
')

Thanks
---------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David
Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal :         East Northeast
Dick Jenkins:      East Marketeast

WK  

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');

I saw it. Very interesting.
"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE:', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com,', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. 'Thanks!

Ben');

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.'

'susan.mara@enron.com', 'ray.alvarez@enron.com, mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

---------------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)
Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',
'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave-

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
  
  - Finalize market analysis to refine business case, specifically projected revenue stream
  - Complete counterparty surveying, including targeting 3 CPs for letters of intent
  - Review Enron asset base for potential reuse/ licensing
  - Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

- accenture-dealpoints v2.doc ')

INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',
'Re: Guadalupe Power Partners LP', '------------- Forwarded by Thomas A Martin/HOU/ECT on 03/20/2001
03:49 PM ----------------------

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.

');

Subject: Columbia Distribution’s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

Subject: Split Rock Energy LLC

We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.

Subject: Oral Argument Request

- Oral Argument Request.doc

Did you come in town this wk end.... My new number at our house is: 713-668-3712...... my cell # is 281-381-7332
the kid');

INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');

INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.
I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

   bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');

INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com;', '2001 Enron Law Conference (Distribution List 2), ' 2001 Enron Law Conference
San Antonio, Texas   May 2-4, 2001   Westin Riverwalk

   See attached memo for more details!!
? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

'):
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as
well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com

')
INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu,
gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.
PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:
Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

'));

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

'));

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

'));

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.
Thanks;

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy);

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/');

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).

This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip');

INSERT INTO email([from],[to],subject,body) VALUES('kourtney.nelson@enron.com', 'mike.swerzbin@enron.com', 'Adjusted L/R Balance', 'Mike,

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');

INSERT INTO email([from],[to],subject,body) VALUES('d..thomas@enron.com', 'naveed.ahmed@enron.com', 'Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 41665

------------------------------------------------------------------
Paul,

I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

---Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
---Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio
Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

Thanks

chris
x31666

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102
Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as
soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com

Australia:
1800 678-515
support@palm-au.com

Canada:
Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too

BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah 713-767-5374
Relaint
Steve McGinn 713-207-4000

Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$ Variance found in table tblLoads.
Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com','john.zufferli@enron.com','Reference','John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com','lschiffm@jonesday.com','Re:','I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15,...talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebytztoolzprint.jpg');

COMMIT;
}
}

###########################################################################

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 41670
do_test fts1c-1.2 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark'
  }
} {6 17 25 38 40 42 73 74}
do_test fts1c-1.3 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan'
  }
} {24 40}
do_test fts1c-1.4 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark susan'
  }
} {40}
do_test fts1c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts1c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH "mark susan"
  }
} {}
do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts1c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
do_test fts1c-2.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'gas reminder'
    }
} {20 [2 0 42 3 2 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3 ]}
do_test fts1c-2.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    }
} {20 [2 0 42 3 2 1 54 8 3 1 54 8 ]}
do_test fts1c-2.3 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'body:gas reminder'
    }
} {20 [2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3 ]}
do_test fts1c-2.4 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE subject MATCH 'gas reminder'
    }
} {20 [2 0 42 3 2 1 54 8 ]}
do_test fts1c-2.5 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'gas reminder'
    }
} {20 [3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3 ]}

do_test fts1c-3.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'child product' AND +rowid=32
    }
} {32 [3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7 ]}
do_test fts1c-3.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH '"child product"'
    }
} {32 [3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 ]}
# Snippet generator tests

#
do_test fts1c-4.1 {
    execsql {
        SELECT snippet(email) FROM email
          WHERE email MATCH 'subject:gas reminder'
    }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
    execsql {
        SELECT snippet(email) FROM email
          WHERE email MATCH 'christmas candlelight'
    }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b>? eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts1c-4.3 {
    execsql {
        SELECT snippet(email) FROM email
          WHERE email MATCH 'deal sheet potential reuse'
    }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> intent
Review Enron asset base for <b>potential</b>/ <b>reuse</b>/ licensing
Contract negotiations <b>...</b>}}
do_test fts1c-4.4 {
    execsql {
        SELECT snippet(email,'<<<','>>>',' ') FROM email
          WHERE email MATCH 'deal sheet potential reuse'
    }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing
Contract negotiations }}
do_test fts1c-4.5 {
    execsql {
        SELECT snippet(email,'<<','>>,') FROM email
          WHERE email MATCH 'first things'
    }
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts1c-4.6 {
    execsql {
        SELECT snippet(email) FROM email
          WHERE email MATCH 'chris is here'
    }
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick??
Hotel. <b>...</b> place.? What do you think about going <b>here</b>? Christmas eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts1c-4.7 {
exesql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
}
} {{Erin:
<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to <b>...</b>}}
do_test fts1c-4.8 {
exesql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
}
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b><b>...</b>schedules awarded.
Variances detected.
Variances detected in <b>Load</b><b>...</b> schedule.

LOG MESSAGES:

PARSING <b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
exesql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b><b>...</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}
do_test fts1c-5.2 {
exesql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@<b>enron</b>.<b>com</b> <b>...</b> six reports:

31 Keystone Receipts
15 <b>Questar</b><b>...</b> Pipeline
40 Rockies Production
22 West_2 <b>...</b>}}

finish_test
Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

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

SQLite is open source, and is available in the public domain

application code is free to use these routines as well, if desired.

MMFauxFont.prc

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

<html>
<body bgcolor="white">
<p>FOR IMMEDIATE RELEASE:</p>
</body>
</html>
<h2 align="center">SQLite Consortium Launches With Mozilla And Symbian As Charter Members</h2>

Ensures independent technical direction for world's most deployed SQL database engine

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote choice and innovation on the Internet."

"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible."

SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website,
About SQLite

SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.

SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.

Contact information:
SQLite Consortium
Dr. D. Richard Hipp
6200 Maple Cove Lane
Charlotte, NC 28269
Email: drh@sqlite.org
http://www.sqlite.org/
Tel: +1.704.948.4565

About Mozilla

Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere. Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.

Contact information:
Mozilla Corporation
Jessica Waight
Tel: +1.415.345.4754
Email: jwaight@outcastpr.com
About Symbian Limited

Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.

Symbian licenses Symbian OS to the world's leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.

CONTACT INFORMATION:
Symbian Global Press Office
Karen Hamblen
+44 207 154 1707
press@symbian.com

The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.

SQLite core and like the SQLite core are in the public domain. The <b><a href="th3.html">TH3</a></b> test harness is a set of proprietary tests, written in

/*
 ** Return a pointer to the "temporary page" buffer held internally
*/
** by the pager. This is a buffer that is big enough to hold the
** entire content of a database page. This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs. But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

application is free to use the same <a href="../c3ref/sqlite3.html">database connection</a> or the

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
** The "printf" code that follows dates from the 1980's. It is in
** the public domain. The original comments are included here for
** completeness. They are very out-of-date but might be useful as
** an historical reference. Most of the "enhancements" have been backed
** out so that the functionality is now the same as standard printf().
**
** ************************************************************************
**
** This file contains code for a set of "printf"-like routines. These
** routines format strings much like the printf() from the standard C
** library, though the implementation here has enhancements to support
** SQLite.
**
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

other proprietary or non-standard VFSes.

Found in path(s):
No license file was found, but licenses were detected in source scan.

<br/>
SQLite Consortium Agreement

This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ______________, 2007 ("Effective Date") by and between ___________________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").

WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at
<a href="http://www.sqlite.org/">http://www.sqlite.org/</a> ("SQLite"); and

WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and

WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and

WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.

NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers

The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect

The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the
SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

1.3 Consortium Member

A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers

2.1.1 General Support

The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

2.1.2 Debugging Support

The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

2.1.3 Custom Development

The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may be folded into the public domain SQLite source tree. The time devoted to Custom Development for Company is limited 220 hours per year.

2.1.4 Custom Builds

The SQLite Developers shall at Company's request provide Company with specialized builds of SQLite according to Company's specifications.

2.1.5 Legacy Support

The SQLite Developers shall at Company's request provide support and bug-fix patches for any historical version of SQLite.
<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company's request set up and run acceptance tests according Company's specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>
The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

<h4>2.1.8 Code Quality</h4>
The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.

<h4>2.1.9 Backwards Compatibility</h4>
The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

<h4>2.1.10 Test Coverage</h4>
The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.

<h4>2.1.11 Website</h4>
The SQLite Developers shall maintain the SQLite website at [http://www.sqlite.org/](http://www.sqlite.org/) in good working order and all SQLite source code shall be made freely available at such website.

---

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings.
of any new bugs or new features in SQLite that might effect Company's products.

<h4>2.2.2 Direction</h4>
<p>SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.
</p>

<h4>2.2.3 Oversight</h4>
<p>SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.
</p>

<h4>2.2.4 Continuity</h4>
<p>The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.
</p>

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
<p>Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.
</p>

<h4>2.3.2 Responsible Party</h4>
<p>All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit, employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.
</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.
</p>
<h4>2.3.4 Mentorship</h4>
Hwaci shall work to encourage independent
programmers from around the world
to become familiar with SQLite internals so that there will be a
pool of talent able to support SQLite in the future.

</p>

<h4>2.3.5 Audits</h4>
Hwaci shall keep and maintain complete and accurate records
of the use of development funds provided by Company
and shall allow Company, or its representative, a certified
public accountant mutually acceptable to Hwaci and Company,
during office hours and at reasonable intervals, no more than
once every 12 months, to inspect and make extracts or copies
of such records solely for the purpose of ascertaining Hwaci's
compliance with the objectives and requirements of this agreement.

</p>

<h4>2.3.6 Disaster Planning</h4>
Hwaci shall maintain backup copies of all
SQLite source files and documentation, current and historical,
at at least two separate locations separated from each
other and from the primary on-line SQLite repository
by at least 400 kilometers.

</p>

<h4>2.3.7 Trademark</h4>
Hwaci shall maintain ownership of the SQLite trademark and
the sqlite.org domain name and shall purchase bandwidth and

</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>
Neither Hwaci nor the SQLite Architect shall relinquish development
control of SQLite during the term of this Agreement, by acquisition or merger
or by any other means,
except with the consent of Company.

</p>

<h4>2.3.9 New Consortium Members</h4>
New Consortium Members may be accepted into the consortium from
time to time under identical terms as this agreement, or under
substantially similar terms that have been approved by existing
Consortium Members.

</p>

<h4>2.3.10 Adequate Staff</h4>
Hwaci shall recruit and employ a sufficient number of qualified
SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

<h4>2.3.11 Use Of Funds</h4>
<p>Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.</p>

<h3>2.4 Responsibilities And Obligations Of Company</h3>

<h4>2.4.1 Funding</h4>
<p>Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".</p>

<h4>2.4.2 Copyright Disclaimer</h4>
<p>Company acknowledges that SQLite source code and documentation published on the <a href="http://www.sqlite.org/">SQLite website</a> is in the public domain and that nothing in this agreement shall change that fact.</p>

<h2>3.0 Fees</h2>
<p>In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance either annually, quarterly, or monthly, at Company’s discretion.</p>

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>
<p>"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing.
orally or by drawings or inspection of parts or equipment.</p></div>

<h3>4.2 Non-Use and Non-Disclosure.</h3>

<p>Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.</p>

<h4>4.2.1 Disclosure Required by Law</h4>

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.</p>

<h3>4.3 Return of Materials.</h3>

<p>Upon the termination of this Agreement, or upon Company's earlier request, Hwaci shall deliver to Company all of Company's property or Confidential Information that Hwaci
may have in Hwaci’s possession or control.</p>

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

<p>Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.</p>

<h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain. To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers’ and Hwaci’s rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation, perpetual, irrevocable, worldwide, non-exclusive, sublicensable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name “SQLite” only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein,
and may set such policies as it deems appropriate for
licensing the use of the trademark.</p>

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances.</h3>
<p>Hwaci hereby represents and warrants that Hwaci shall
enter into agreements with the SQLite Developers sufficient
to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer.</h3>
<p>The work product and all material provided by Hwaci and
Company are provided "as is." Neither party makes any
representations or warranties of any kind, whether oral
or written, whether express, implied, or arising by statute,
custom, course of dealing or trade usage, with respect to
the subject matter hereof, in connection with this agreement.
each party specifically disclaims any and all implied
warranties or conditions of title, merchantability,
fitness for a particular purpose, and non-infringement.</p>

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term.</h3>
<p>This Agreement will commence on the Effective Date and
will continue until 12 months after the Effective Date.
Thereafter, the parties may by mutual consent renew
this Agreement subject to agreement on fees to be paid by
Company for sponsorship for additional periods.</p>

<h3>7.2 Termination.</h3>
<p>If either party materially defaults in the performance
of any of its material obligations hereunder and if any
such default is not corrected within 30 days after notice
in writing, then the non-defaulting party, at its option,
may, in addition to any other remedies it may have, thereupon
terminate this Agreement by giving written notice of
termination to the defaulting party.</p>

<h3>7.3 Survival.</h3>
<p>Upon such termination all rights and duties of the
parties toward each other will cease except:
Sections 4 (Confidentiality), 5 (Intellectual Property),
and 8 (Miscellaneous) will survive termination of this Agreement.</p>

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

<p>The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.</p>

<h3>8.2 Notices.</h3>

<p>Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.</p>

<h3>8.3 Waiver.</h3>

<p>Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the
enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.</p>

<h3>8.4 Severability.</h3>

<p>If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.</p>

<h3>8.5 Integration.</h3>

<p>This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.</p>

<h3>8.6 Counterparts.</h3>

<p>This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.</p>

<h3>8.7 Governing Law.</h3>

<p>This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.</p>

<h3>8.8 Independent Contractors.</h3>

<p>It is the intention of the parties that Hwaci is an
independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

<h2>9.0 Signatures</h2>

The parties have executed this Agreement below to indicate their acceptance of its terms.

```
<table width="100%" border="0">
<tr><td valign="top">
HWACI<br>
By:<hr>
Print Name:<hr>
Title:<hr>
</td><td width="10%"></td>
<tr><td valign="top">
COMPANY<br>
By:<hr>
Print Name:<hr>
Title:<hr>
</td></tr></table>
```

Found in path(s):

```
*/
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
**  May you do good and not evil.
**  May you find forgiveness for yourself and forgive others.
**  May you share freely, never taking more than you give.
**
**************************************************************************
```

No license file was found, but licenses were detected in source scan.
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
**   plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 *
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
* with every copy.

* To compute the message digest of a chunk of bytes, declare an
* MD5Context structure, pass it to MD5Init, call MD5Update as
* needed on buffers full of bytes, and then call MD5Final, which
* will fill a supplied 16-byte array with the digest.
*/

Found in path(s):

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

2.31 0
1.23 0
1.0 0

Found in path(s):
* %%%Version

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

<p><b>Public domain</b></p>
The source code for SQLite is in the public domain. No claim of copyright

Found in path(s):

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

<a href="http://en.wikipedia.org/wiki/Public_Domain">public domain</a>

the public domain and originals of author, and all of those authors have public domain dedications
Even though SQLite is in the public domain and does not require the public domain. </li>
their contributions to the public domain.
in this code to the public domain. We make this dedication for the benefit

Found in path(s):

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

# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#    May you do good and not evil.
#    May you find forgiveness for yourself and forgive others.
#    May you share freely, never taking more than you give.
#
#***********************************************************************

# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#

set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
# do_test func-0.0 {
# execsql {CREATE TABLE tbl1(t1 text)}
# foreach word [this program is free software] {
#   execsql "INSERT INTO tbl1 VALUES('$word')"
# }
# execsql {SELECT t1 FROM tbl1 ORDER BY t1}
# } {free is program software this}
do_test func-0.1 {
# execsql {
# CREATE TABLE t2(a);
# INSERT INTO t2 VALUES(1);
# INSERT INTO t2 VALUES(NULL);
# INSERT INTO t2 VALUES(345);
# INSERT INTO t2 VALUES(NULL);
# INSERT INTO t2 VALUES(67890);
# SELECT * FROM t2;
# }
# } {1 {} 345 {} 67890}

# Check out the length() function
#
# do_test func-1.0 {
# execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
# } {4 2 7 8 4}
do_test func-1.1 {
# set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
# lappend r $msg
# } {1 {wrong number of arguments to function length()}}
do_test func-1.2 {
# set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
# lappend r $msg
# } {1 {wrong number of arguments to function length()}}
do_test func-1.3 {
execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}
do_test func-1.4 {
execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#
do_test func-2.0 {
execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {fr is pr so th}
do_test func-2.1 {
execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {r s r o h}
do_test func-2.2 {
execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.4 {
execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {e s m e s}
do_test func-2.5 {
execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {e i a r i}
do_test func-2.6 {
execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
execsql {SELECT substr(a,2,2) FROM t2}
} {} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {"u1234"!="u1234"} {

# Put some UTF-8 characters in the database
#
do_test func-3.0 {
  execsql {DELETE FROM tbl1}
  foreach word "contains UTF-8 characters hi\u1234ho" {
    execsql "INSERT INTO tbl1 VALUES('Sword')"
  }
  execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
  execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
} {UT ch co hi}
do_test func-3.3 {
  execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1}
} "UTF cha con hi\u1234"
do_test func-3.4 {
  execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1}
} "TF ha on i\u1234"
do_test func-3.5 {
  execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1}
} "TF- har ont i\u1234h"
do_test func-3.6 {
  execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1}
} "F- ar nt \u1234h"
do_test func-3.7 {
  execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1}
} "-8 ra ta ho"
do_test func-3.8 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} "8 s s o"
do_test func-3.9 {
  execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1}
} "F- er in \u1234h"
do_test func-3.10 {
  execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1}
} "TF- ter ain \u1234h"
do_test func-3.99 {
  execsql {DELETE FROM tbl1}
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('Sword')"
  }
  execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End \u1234!=u1234
# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
do_test func-4.1 {
    execsql {
        CREATE TABLE t1(a,b,c);
        INSERT INTO t1 VALUES(1,2,3);
        INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
        INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
ifcapable floatingpoint {
do_test func-4.1 {
    execsql {
        CREATE TABLE t1(a,b,c);
        INSERT INTO t1 VALUES(1,2,3);
        INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
        INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
} {1 {wrong number of arguments to function abs()}}
}
do_test func-4.2 {
catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}
ifcapable floatingpoint {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 1.2345678901234 2}}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 12345.6789 5}}
}
ifcapable !floatingpoint {
if [[working_64bit_int]] {
do_test func-4.3 {
catchsql {SELECT abs(b) FROM t1 ORDER BY a}
} {0 {2 12345678901234 2}}
}
do_test func-4.4 {
catchsql {SELECT abs(c) FROM t1 ORDER BY a}
} {0 {3 1234567890 5}}
}
do_test func-4.4.1 {
execsql {SELECT abs(a) FROM t2}
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

do_test func-4.2 {
  execsql {SELECT abs(t1) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}

if capable floatingpoint {
  do_test func-4.5 {
    catchsql {SELECT round(a,b,c) FROM t1}
  } {1 {wrong number of arguments to function round()}}
  do_test func-4.6 {
    catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
  } {0 {2.0 1.23 2.0}}
  do_test func-4.7 {
    catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
  } {0 {2.0 1.0 -2.0}}
  do_test func-4.8 {
    catchsql {SELECT round(c) FROM t1 ORDER BY a}
  } {0 {3.0 -12346.0 -5.0}}
  do_test func-4.9 {
    catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
  } {0 {3.0 -12345.68 -5.0}}
  do_test func-4.10 {
    catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
  } {0 {x3.0y x-12345.68y x-5.0y}}
  do_test func-4.11 {
    catchsql {SELECT round() FROM t1 ORDER BY a}
  } {1 {wrong number of arguments to function round()}}
  execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.0 nil 345.0 nil 67890.0}
  do_test func-4.13 {
    execsql {SELECT round(t1,2) FROM tbl1}
  } {0.0 0.0 0.0 0.0 0.0}
  do_test func-4.14 {
    execsql {SELECT typeof(round(5.1,1));}
  } {real}
  do_test func-4.15 {
    execsql {SELECT typeof(round(5.1));}
  } {real}
  do_test func-4.16 {
    catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
  } {0 {-2.0 1.23 2.0}}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.5 + $i]
set x2 [expr 40223.0 + $i]
do_test func-4.17.$i {
    execsql {SELECT round($x1);}
} $x2
}
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.05 + $i]
    set x2 [expr 40222.10 + $i]
    do_test func-4.18.$i {
        execsql {SELECT round($x1,1);}
    } $x2
}
do_test func-4.20 {
    execsql {SELECT round(40223.4999999999999999);}
} {40223.0}
do_test func-4.21 {
    execsql {SELECT round(40224.4999999999999999);}
} {40224.0}
do_test func-4.22 {
    execsql {SELECT round(40225.4999999999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.5}
    do_test func-4.24.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.5}
    do_test func-4.25.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.5}
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.4999999999}
    do_test func-4.27.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.4999999999}
    do_test func-4.28.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.4999999999}
}
do_test func-4.29 {
    execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
    execsql {SELECT round(1234567891.5);}
do_test func-4.31 {
  execsql {SELECT round(123456789012.5);}
} {12345678902.0}
do_test func-4.32 {
  execsql {SELECT round(1234567890123.5);}
} {123456789013.0}
do_test func-4.33 {
  execsql {SELECT round(12345678901234.5);}
} {1234567890124.0}
do_test func-4.34 {
  execsql {SELECT round(1234567890123.35,1);}
} {1234567890123.4}
do_test func-4.35 {
  execsql {SELECT round(1234567890123.445,2);}
} {1234567890123.45}
do_test func-4.36 {
  execsql {SELECT round(99999999999994.5);}
} {99999999999995.0}
do_test func-4.37 {
  execsql {SELECT round(9999999999999.55,1);}
} {9999999999999.6}
do_test func-4.38 {
  execsql {SELECT round(9999999999999.556,2);}
} {9999999999999.56}
}

# Test the upper() and lower() functions
#
do_test func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
if capable!icu {
  do_test func-5.4 {
    catchsql {SELECT upper(a,5) FROM t2}
} {1 {wrong number of arguments to function upper()}}
}
do_test func-5.5 {
  catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
do_test func-6.1 {
  execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test func-6.2 {
  execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test func-6.3 {
  execsql {SELECT coalesce(nullif(1,1),'nil')}
} {nil}
do_test func-6.4 {
  execsql {SELECT coalesce(nullif(1,2),'nil')}
} {1}
do_test func-6.5 {
  execsql {SELECT coalesce(nullif(1,NULL),'nil')}
} {1}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
  execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
  do_test func-8.1 {
    ifcapable explain {
      execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
      SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
    }
} {68236 3 22745.33 1 67890 5}
} ifcapable !floatingpoint {
  do_test func-8.1 {
    ifcapable explain {
      execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
      SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
    }
} {68236 3 22745.0 1 67890 5}
} do_test func-8.2 {
  execsql {
SELECT max('z+''a'||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t2;
}
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
}
ifcapable tempdb {
  do_test func-8.3 {
    execsql {
      CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
      SELECT min('z+''a'||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t3;
    }
  }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
else {
  do_test func-8.3 {
    execsql {
      CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
      SELECT min('z+''a'||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ') FROM t3;
    }
  }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ}
}
}
}
ifcapable compound {
  do_test func-8.5 {
    execsql {
      SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
                        UNION ALL SELECT -9223372036854775807)
    }
  }
} {0}
}
}
ifcapable floatingpoint {
  do_test func-8.6 {
    execsql {
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
                                   UNION ALL SELECT -9223372036854775807)
    }
  }
} {integer}
}
}
ifcapable floatingpoint {
  do_test func-8.7 {
    execsql {
      SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
                                   UNION ALL SELECT -9223372036854775807)
    }
  }
} {real}
ifcapable floatingpoint {
  do_test func-8.8 {
    execsql {
      SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
                                UNION ALL SELECT -9223372036854775807)
    }
  }
} {real}
# How do you test the random() function in a meaningful, deterministic way?

#

do_test func-9.1 {
  execsql {
    SELECT random() is not null;
  }
} {1}
do_test func-9.2 {
  execsql {
    SELECT typeof(random());
  }
} {integer}
do_test func-9.3 {
  execsql {
    SELECT randomblob(32) is not null;
  }
} {1}
do_test func-9.4 {
  execsql {
    SELECT typeof(randomblob(32));
  }
} {blob}
do_test func-9.5 {
  execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)),
       length(randomblob(2000))
  }
} {32 1 2000}

# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# hex().
#
#ifcapable bloblit {
do_test func-9.10 {
execsql {SELECT hex(x'00112233445566778899aAbBcCdDeEfF')}
} {00112233445566778899AABBCCDDEEFF}
}
set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
do_test func-9.11-utf16le {
execsql {SELECT hex(replace('abcdefg','ef','12'))}
} {6100620063006400310032006700}
do_test func-9.12-utf16le {
execsql {SELECT hex(replace('abcdefg','','12'))}
} {6100620063006400650066006700}
do_test func-9.13-utf16le {
execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
} {610061006100610061006100620063006400650066006700}
} elseif {$encoding=="UTF-8"} {
do_test func-9.11-utf8 {
execsql {SELECT hex(replace('abcdefg','ef','12'))}
} {61626364313267}
do_test func-9.12-utf8 {
execsql {SELECT hex(replace('abcdefg','','12'))}
} {61626364656667}
do_test func-9.13-utf8 {
execsql {SELECT hex(replace('aabcdefg','a','aaa'))}
} {616161616161626364656667}
}
# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
catchsql {
SELECT testfunc(NULL,NULL);
}
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
execsql {
SELECT testfunc(
'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
'int', 1234
);
}
} {1234}
do_test func-10.3 {
execsql {

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SELECT testfunc(
    'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL
);
}
} {{}}

if capable floatingpoint {
    do_test func-10.4 {
        execsql {
            SELECT testfunc(
                'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                'double', 1.234
            );
        }
} {1.234}
}

    do_test func-10.5 {
        execsql {
            SELECT testfunc(
                'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
                'double', 1.234
            );
        }
} {1.234}

# Test the built-in sqlite_version(*) SQL function.
#
    do_test func-11.1 {
        execsql {
            SELECT sqlite_version(*);
        }
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text() # etc. are called. These tests use two special user-defined functions # (implemented in func.c) only available in test builds.
#
# Function test Destructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function test Destructor_count() returns the number of outstanding
# destructor calls for values returned by test Destructor().
#
if {[db eval {PRAGMA encoding}]=="UTF-8"} {
  do_test func-12.1-utf8 {
    execsql {
      SELECT testDestructor('hello world'), testDestructor_count();
    }
  } {"hello world" 1}
} else {
  ifcapable {utf16} {
    do_test func-12.1-utf16 {
      execsql {
        SELECT testDestructor16('hello world'), testDestructor_count();
      }
    } {"hello world" 1}
  }
}

do_test func-12.2 {
  execsql {
    SELECT testDestructor_count();
  } {0}
}

do_test func-12.3 {
  execsql {
    SELECT testDestructor('hello')||' world'
  } {"hello world"}
}
do_test func-12.4 {
  execsql {
    SELECT testDestructor_count();
  } {0}
}
do_test func-12.5 {
  execsql {
    CREATE TABLE t4(x);
    INSERT INTO t4 VALUES(testDestructor('hello'));
    INSERT INTO t4 VALUES(testDestructor('world'));
    SELECT min(testDestructor(x)), max(testDestructor(x)) FROM t4;
  }
} {"hello world"}
do_test func-12.6 {
  execsql {
    SELECT testDestructor_count();
  } {0}
do_test func-12.7 {
  execsql {
    DROP TABLE t4;
  }
}

do_test func-13.1 {
  execsql {
    SELECT test_auxdata('hello world');
  }
} {0}

do_test func-13.2 {
  execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
  }
} {}

do_test func-13.3 {
  execsql {
    SELECT test_auxdata('hello world') FROM t4;
  }
} {0 1}

do_test func-13.4 {
  execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
  }
} {{0 0} {1 1}}

do_test func-13.5 {
  execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
  }
} {{0 0} {1 0}}

do_test func-13.6 {
  execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
  }
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
  set DB [sqlite3_connection_pointer db]
  set sql "SELECT test_auxdata( ?, a ) FROM t4;"
set STMT [sqlite3_prepare $::DB "$sql" -1 TAIL]
sqlite3_bind_blob $::STMT 1 abc 3
set res [list]
while { "$SQLITE_ROW" == [sqlite3_step $::STMT] } {
    lappend res [sqlite3_column_text $::STMT 0]
}
lappend res [sqlite3_finalize $::STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
catch {
    db function [string repeat X 254] {return "hello"}
} {0}
do_test func-14.2 {
catch {
    db function [string repeat X 256] {return "hello"}
} {1}
}
do_test func-15.1 {
catchsql {select test_error(NULL)}
} {1 {}}
do_test func-15.2 {
catchsql {select test_error('this is the error message')}  
} {1 {this is the error message}}
do_test func-15.3 {
catchsql {select test_error('this is the error message',12)}
} {1 {this is the error message}}
do_test func-15.4 {
db errorcode
} {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
execsql {
    CREATE TABLE tbl2(a, b);
}
set STMT [sqlite3_prepare $::DB "$sql" -1 TAIL]
sqlite3_bind_blob $::STMT 1 abc 3
sqlite3_step $::STMT
sqlite3_finalize $::STMT
execsql {
    SELECT quote(a), quote(b) FROM tbl2;
}
} {X'616263' NULL}
# Correctly handle function error messages that include %. Ticket #1354

do_test func-17.1 {
    proc testfunc1 args {error "Error %d with %s percents %p"}
    db function testfunc1 ::testfunc1
    catchsql {
        SELECT testfunc1(1,2,3);
    }
} {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.

do_test func-18.1 {
    execsql {
        CREATE TABLE t5(x);
        INSERT INTO t5 VALUES(1);
        INSERT INTO t5 VALUES(-99);
        INSERT INTO t5 VALUES(10000);
        SELECT sum(x) FROM t5;
    }
} {9902}
if capable floatingpoint {
    do_test func-18.2 {
        execsql {
            INSERT INTO t5 VALUES(0.0);
            SELECT sum(x) FROM t5;
        }
    } {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.

# The TOTAL of nothing is 0.0.

do_test func-18.3 {
    execsql {
        DELETE FROM t5;
        SELECT sum(x), total(x) FROM t5;
    }
} {{} 0.0}
do_test func-18.4 {
    execsql {
        INSERT INTO t5 VALUES(NULL);
        SELECT sum(x), total(x) FROM t5
    }
} {{} 0.0}
do_test func-18.5 {
    execsql {

INSERT INTO t5 VALUES(NULL);
SELECT sum(x), total(x) FROM t5
}
} {} 0.0
do_test func-18.6 {
execsql {
    INSERT INTO t5 VALUES(123);
    SELECT sum(x), total(x) FROM t5
}
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful
# result.
#
do_test func-18.10 {
execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
}
} 0
do_test func-18.11 {
execsql {
    SELECT typeof(sum(x)) FROM t6
}
} integer
ifcapable floatingpoint {
do_test func-18.12 {
catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2.0+1) from t6;
}
} {1 {integer overflow}}
do_test func-18.13 {
execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
}
} 0.0
}
ifcapable !floatingpoint {
do_test func-18.12 {
catchsql {
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)*2+1) from t6;
}
} {1 {integer overflow}}
}
do_test func-18.13 {
    execsql {
        SELECT total(x) - ((1<<62)*2+1) FROM t6
    } 0.0
}
if {[[working_64bit_int]]} {
do_test func-18.14 {
    execsql {
        SELECT sum(-9223372036854775805);
    } -9223372036854775805
}
if_capable compound&&subquery {

do_test func-18.15 {
    catchsql {
        SELECT sum(x) FROM
            (SELECT 9223372036854775807 AS x UNION ALL
            SELECT 10 AS x);
    } {1 {integer overflow}}
}
if {[[working_64bit_int]]} {
do_test func-18.16 {
    catchsql {
        SELECT sum(x) FROM
            (SELECT 9223372036854775807 AS x UNION ALL
            SELECT -10 AS x);
    } {0 9223372036854775797}
do_test func-18.17 {
    catchsql {
        SELECT sum(x) FROM
            (SELECT -9223372036854775807 AS x UNION ALL
            SELECT 10 AS x);
    } {0 -9223372036854775797}
}
do_test func-18.18 {
    catchsql {
        SELECT sum(x) FROM
            (SELECT -9223372036854775807 AS x UNION ALL
            SELECT -10 AS x);
    } {1 {integer overflow}}
do_test func-18.19 {
    catchsql {
        SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
    } {0 9223372036854775797}
}
do_test func-18.20 {
    catchsql {
        SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
    }
} {0 -1}
do_test func-18.21 {
    catchsql {
        SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
    }
} {0 -1}
do_test func-18.22 {
    catchsql {
        SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
    }
} {0 1}
};# if capable compound && subquery

# Integer overflow on abs()
#
if {[working_64bit_int]} {
    do_test func-18.31 {
        catchsql {
            SELECT abs(-9223372036854775807);
        }
    } {0 \{9223372036854775807\}}
    do_test func-18.32 {
        catchsql {
            SELECT abs(-9223372036854775807-1);
        }
    } {1 \{integer overflow\}}
}

# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
    execsql {
        SELECT match(a,b) FROM t1 WHERE 0;
    }
} {}
do_test func-19.2 {
    catchsql {
        SELECT 'abc' MATCH 'xyz';
    }
} {1 \{unable to use function MATCH in the requested context\}}
do_test func-19.3 {
catchsql {
    SELECT 'abc' NOT MATCH 'xyz';
}
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
    catchsql {
        SELECT match(1,2,3);
    }
} {1 {wrong number of arguments to function match()}}

# Soundex tests.
#
if ![catch {db eval {SELECT soundex('hello')}}] { set i 0 foreach {name sdx} {
euler E460
EULER E460
Euler E460
ellery E460
gauss G200
ghosh G200
hilbert H416
Heilbronn H416
knuth K530
kant K530
Lloyd L300
LADD L300
Lukasiewicz L222
Lissajous L222
A A000
12345 ?000
} {
    incr i
    do_test func-20.$i {
        execsql {SELECT soundex($name)} $sdx
    }
}
}

# Tests of the REPLACE function.
#
do_test func-21.1 {
    catchsql {
        SELECT replace(1,2);
    }
} {1 {wrong number of arguments to function replace()}}
do_test func-21.2 {
    catchsql {
        SELECT replace(1,2,'abc');
    }
} {1 {wrong number of arguments to function replace()}}
SELECT replace(1,2,3,4);
}
} {1 {wrong number of arguments to function replace()}}
do_test func-21.3 {
execsql {
SELECT typeof(replace("This is the main test string", NULL, "ALT"));
}
} {null}
do_test func-21.4 {
execsql {
SELECT typeof(replace(NULL, "main", "ALT"));
}
} {null}
do_test func-21.5 {
execsql {
SELECT typeof(replace("This is the main test string", "main", NULL));
}
} {null}
do_test func-21.6 {
execsql {
SELECT replace("This is the main test string", "main", "ALT");
}
} {{This is the ALT test string}}
do_test func-21.7 {
execsql {
SELECT replace("This is the main test string", "main", "larger-main");
}
} {{This is the larger-main test string}}
do_test func-21.8 {
execsql {
SELECT replace("aaaaaaa", "a", "0123456789");
}
} {0123456789012345678901234567890123456789012345678901234567890123456789}
ifcapable tclvar {
do_test func-21.9 {
# Attempt to exploit a buffer-overflow that at one time existed
# in the REPLACE function.
set ::str "[string repeat A 29998]CC[string repeat A 35537]"
set ::rep [string repeat B 65536]
execsql {
SELECT LENGTH(REPLACE($::str, 'C', $::rep));
}
} [expr 29998 + 2*65536 + 35537]
}
# Tests for the TRIM, LTRIM and RTRIM functions.
#

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do_test func-22.1 {
catchsql {SELECT trim(1,2,3)}
} {1 {wrong number of arguments to function trim()}}
do_test func-22.2 {
catchsql {SELECT ltrim(1,2,3)}
} {1 {wrong number of arguments to function ltrim()}}
do_test func-22.3 {
catchsql {SELECT rtrim(1,2,3)}
} {1 {wrong number of arguments to function rtrim()}}
do_test func-22.4 {
execsql {SELECT trim(' hi ');} 
} {hi}
do_test func-22.5 {
execsql {SELECT ltrim(' hi ');} 
} {{hi}}
do_test func-22.6 {
execsql {SELECT rtrim(' hi ');} 
} {{ hi}}
do_test func-22.7 {
execsql {SELECT trim(' hi ','xyz');} 
} {{ hi }}
do_test func-22.8 {
execsql {SELECT ltrim(' hi ','xyz');} 
} {{ hi }}
do_test func-22.9 {
execsql {SELECT rtrim(' hi ','xyz');} 
} {{ hi }}
do_test func-22.10 {
execsql {SELECT trim('xyzzy hi zzzy','xyz');} 
} {{ hi zzzy}}
do_test func-22.11 {
execsql {SELECT ltrim('xyzzy hi zzzy','xyz');} 
} {{ hi zzzy}}
do_test func-22.12 {
execsql {SELECT rtrim('xyzzy hi zzzy','xyz');} 
} {{xyzzy hi }}
do_test func-22.13 {
execsql {SELECT trim(' hi ','.');} 
} {{ hi }}
if { [db one {PRAGMA encoding}] == "UTF-8" } {
do_test func-22.14 {
execsql {SELECT hex(trim(x'c280e1bfbff48fbbf868eb', x'6162e1bfbfc280'))}
} {F48FBBF6869}
do_test func-22.15 {
execsql {SELECT hex(trim(x'6869c280e1bfb48fbbf661', x'6162e1bfbfc280f48fbbf'))}
} {6869}
do_test func-22.16 {
\[\text{execsql} \{\text{SELECT} \operatorname{trim}(\text{x'ceb1ceb2ceb3'}, \text{x'ceb1'});\}\ \{\text{CEB2CEB3}\}\]

\begin{verbatim}
do_test func-22.20 {
  execsql \{\text{SELECT} \text{typeof}((\text{trim}(\text{NULL});))\}\ \{\text{null}\}\}
do_test func-22.21 {
  execsql \{\text{SELECT} \text{typeof}((\text{trim}(\text{NULL,'xyz');))\}\ \{\text{null}\}\}
do_test func-22.22 {
  execsql \{\text{SELECT} \text{typeof}((\text{trim}('hello',\text{NULL});))\}\ \{\text{null}\}\}
\end{verbatim}

\# This is to test the deprecated sqlite3\_aggregate\_count() API.
\#
\ifcapable deprecated {
  do_test func-23.1 {
    sqlite3\_create\_aggregate \text{db}
    execsql {
      \text{SELECT} \text{legacy\_count()} \text{FROM} \text{t6};
    }
    \} \{3\}
  }
}

\# The group\_concat() function.
\#
\do_test func-24.1 {
  execsql {
    \text{SELECT} \text{group\_concat}(t1) \text{FROM} \text{tbl1}
  }
  \} \{\text{this,program,is,free,software}\}
\do_test func-24.2 {
  execsql {
    \text{SELECT} \text{group\_concat}(t1,')') \text{FROM} \text{tbl1}
  }
  \} \{\text{this program is free software}\}
\do_test func-24.3 {
  execsql {
    \text{SELECT} \text{group\_concat}(t1,'|rowid|') \text{FROM} \text{tbl1}
  }
  \} \{\text{this 2 program 3 is 4 free 5 software}\}
\do_test func-24.4 {
  execsql {
    \text{SELECT} \text{group\_concat}(\text{NULL},t1) \text{FROM} \text{tbl1}
  }
  \} \{1\}
\do_test func-24.5 {
  execsql {
    \text{SELECT} \text{group\_concat}(t1,t1) \text{FROM} \text{tbl1}
  }
  \} \{1\}
\do_test func-24.6 {
  execsql {
    \text{SELECT} \text{group\_concat}(t1,t1) \text{FROM} \text{tbl1}
  }
  \} \{1\}
\do_test func-24.7 {
  execsql {
    \text{SELECT} \text{group\_concat}(t1,t1) \text{FROM} \text{tbl1}
  }
  \} \{2\}
\do_test func-24.8 {
  execsql {
    \text{SELECT} \text{group\_concat}(t1,t1) \text{FROM} \text{tbl1}
  }
  \} \{3\}
\do_test func-24.9 {
  execsql {
    \text{SELECT} \text{group\_concat}(t1,t1) \text{FROM} \text{tbl1}
  }
  \} \{4\}
\do_test func-24.10 {
  execsql {
    \text{SELECT} \text{group\_concat}(t1,t1) \text{FROM} \text{tbl1}
  }
  \} \{5\}
\end{verbatim}
SELECT group_concat(t1,NULL) FROM tbl1
}
} {thisprogramisfreesoftware}
do_test func-24.6 {
execsql {
SELECT 'BEGIN-''|group_concat(t1) FROM tbl1
}
} {BEGIN-this,program,is.free,software}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
#
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
append midargs '/$i'
append midres '/$i'
set result [md5
    "this${midres}program${midres}is${midres}free${midres}software${midres}"]
set sql "SELECT md5sum(t1$midargs) FROM tbl1"
do_test func-24.7.$i {
    db eval::$sql
} $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
execsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
}
} {.program.is.free,software}
do_test func-24.9 {
execsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
}
} {,,,software}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
exexcsql {


SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
}
} {program,is,free,software}
do_test func-24.11 {
estcsql {
    SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
}
} {software}
do_test func-24.12 {
estcsql {
    SELECT group_concat(CASE t1 WHEN 'this' THEN ''
WHEN 'program' THEN null ELSE t1 END) FROM tbl1
}
} {,is,free,software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
estcsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}

# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
estcsql {}
} {}

# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
estcsql set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
lappend a $i
}
db eval "
SELECT nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678

# Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 41718
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
    lappend a $i
}
catchsql "
    SELECT
    nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789(join $a ,);
" } {1 {too many arguments on function
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do_test func-26.4 {
    set a {}
    for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
        lappend a $i
    }
catchsql "
    SELECT
    nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789(
    " } {1 {wrong number of arguments to function
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do_test func-26.5 {
    catchsql "
    SELECT
    nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
" } {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789!}
do_test func-26.6 {
    catchsql "
    SELECT
    nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
" } {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789!}
do_test func-27.1 {
    catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
    catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
    catchsql {SELECT coalesce(1,2)}
} {0 1}

# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
    db eval {
        CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
    }
    catchsql {
        INSERT INTO t28(x) VALUES(1);
    }
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
    db eval {
        CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
        INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
        INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
        INSERT INTO t29 VALUES(5, "hello", 7);
    }
    db close
    sqlite3 db test.db
    sqlite3_db_status db CACHE_MISS 1
    db eval {[SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id]}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}
do_test func-29.2 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {x<5} {set x 1}
    set x
} {1}
do_test func-29.3 {
    db close
    sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1

```sql
db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
if {[permutation] != "$mmap"} {
    do_test func-29.4 {
        set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
        if {$x>100} {set x many}
        set x
    } {many}
}
do_test func-29.5 {
    db close
    sqlite3 db test.db
    sqlite3_db_status db CACHE_MISS 1
    db eval {SELECT sum(length(x)) FROM t29}
} {1000009}
do_test func-29.6 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x<5} {set x 1}
    set x
} {1}
do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('\u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {$\u00A2\u20AC}]
for {set i 1} {$i<0xd800} {incr i 13} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 57344} {$i<=0xfffd} {incr i 17} {
    if {$i==0xfeff} continue
    do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
for {set i 65536} {$i<=0x10ffff} {incr i 139} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}
finish_test
```

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer.  The first word of each line
# is the input.  The second word is the desired output.
#
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commerical product of some kind.  The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.
#
set porter_test_data {
    a       a
    aaron   aaron
    abaissiez abaissiez
    abandon abandon
    abandoned abandon
    abase    abas
    abash    abash
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}
#
db close
sqlite3 db :memory:
db eval {
CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
execsql {
DELETE FROM t1_term;
DELETE FROM t1_content;
INSERT INTO t1(word) VALUES($pfrom);
SELECT term FROM t1_term;
}
} $pto
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a>. No claim of ownership is made

Found in path(s):
No license file was found, but licenses were detected in source scan.

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions

Found in path(s):
No license file was found, but licenses were detected in source scan.

{string currentfile exch readstring pop}executeonly def

Found in path(s):
* /
No license file was found, but licenses were detected in source scan.

/*
 ** CAPI3REF: Configuration Options
** KEYWORDS: {configuration option}

**

** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**

** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.

**

** <dl>
  ** [[SQLITE_CONFIG_SINGLETHREAD]] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
  ** <dd>There are no arguments to this option.  "This option sets the
  ** [threading mode] to Single-thread.  In other words, it disables
  ** all mutexing and puts SQLite into a mode where it can only be used
  ** by a single thread.  "If SQLite is compiled with
  ** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then
  ** it is not possible to change the [threading mode] from its default
  ** value of Single-thread and so [sqlite3_config()] will return
  ** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
  ** configuration option.</dd>

  **

  ** [[SQLITE_CONFIG_MULTITHREAD]] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
  ** <dd>There are no arguments to this option.  "This option sets the
  ** [threading mode] to Multi-thread.  In other words, it disables
  ** mutexing on [database connection] and [prepared statement] objects.
  ** The application is responsible for serializing access to
  ** [database connections] and [prepared statements].  But other mutexes
  ** are enabled so that SQLite will be safe to use in a multi-threaded
  ** environment as long as no two threads attempt to use the same
  ** [database connection] at the same time.  "If SQLite is compiled with
  ** the [SQLITE_THREADSAFE] [SQLITE_THREADSAFE=0] compile-time option then
  ** it is not possible to set the Multi-thread [threading mode] and
  ** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
  ** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>

  **

  ** [[SQLITE_CONFIG_SERIALIZED]] <dt>SQLITE_CONFIG_SERIALIZED</dt>
  ** <dd>There are no arguments to this option.  "This option sets the
  ** [threading mode] to Serialized. In other words, this option enables
  ** all mutexes including the recursive
  ** mutexes on [database connection] and [prepared statement] objects.
  ** In this mode (which is the default when SQLite is compiled with
  ** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
  ** to [database connections] and [prepared statements] so that the
  ** application is free to use the same [database connection] or the
  ** same [prepared statement] in different threads at the same time.

  **
** If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Serialized [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_SERIALIZED configuration option.</dd>
**
** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The argument specifies
** alternative low-level memory allocation routines to be used in place of
** the memory allocation routines built into SQLite.)^ ^SQLite makes
** its own private copy of the content of the [sqlite3_mem_methods] structure
** before the [sqlite3_config()] call returns.</dd>
**
** [[SQLITE_CONFIG_GET_MALLOC]] <dt>SQLITE_CONFIG_GET_MALLOC</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
** structure is filled with the currently defined memory allocation routines.)^ This option can be used to overload the default memory allocation
** routines with a wrapper that simulations memory allocation failure or
** tracks memory usage, for example. </dd>
**
** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
** <dd> ^(This option takes single argument of type int, interpreted as a
** boolean, which enables or disables the collection of memory allocation
** statistics. ^(When memory allocation statistics are disabled, the
** following SQLite interfaces become non-operational:
** <ul>
** <li> [sqlite3_memory_used()]
** <li> [sqlite3_memory_highwater()]
** <li> [sqlite3_soft_heap_limit64()]
** <li> [sqlite3_status()]
** </ul>)^ Memory allocation statistics are enabled by default unless SQLite is
** compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory allocation statistics are disabled by default.
** </dd>
**
** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** scratch memory. There are three arguments: A pointer an 8-byte
** aligned memory buffer from which the scratch allocations will be
** drawn, the size of each scratch allocation (sz),
** and the maximum number of scratch allocations (N). The sz
** argument must be a multiple of 16.
** The first argument must be a pointer to an 8-byte aligned buffer
** of at least sz*N bytes of memory.
** ^SQLite will use no more than two scratch buffers per thread. So
** N should be set to twice the expected maximum number of threads.
** SQLite will never require a scratch buffer that is more than 6
** times the database page size. ^If SQLite needs needs additional
** scratch memory beyond what is provided by this configuration option, then
** [sqlite3_malloc()] will be used to obtain the memory needed.</dd>
**
** [[[SQLITE_CONFIG_PAGECACHE]] <dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> ^This option specifies a static memory buffer that SQLite can use for
** the database page cache with the default page cache implementation.
** This configuration should not be used if an application-define page
** cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.
** There are three arguments to this option: A pointer to 8-byte aligned
** memory, the size of each page buffer (sz), and the number of pages (N).
** The sz argument should be the size of the largest database page
** (a power of two between 512 and 32768) plus a little extra for each
** page header. ^The page header size is 20 to 40 bytes depending on
** the host architecture. ^It is harmless, apart from the wasted memory,
** to make sz a little too large. The first
** argument should point to an allocation of at least sz*N bytes of memory.
** SQLite will use the memory provided by the first argument to satisfy its
** memory needs for the first N pages that it adds to cache. ^If additional
** page cache memory is needed beyond what is provided by this option, then
** SQLite goes to [sqlite3_malloc()] for the additional storage space.
** The pointer in the first argument must
** be aligned to an 8-byte boundary or subsequent behavior of SQLite
** will be undefined.</dd>
**
** [[[SQLITE_CONFIG_HEAP]] <dt>SQLITE_CONFIG_HEAP</dt>
** <dd> ^This option specifies a static memory buffer that SQLite will use
** for all of its dynamic memory allocation needs beyond those provided
** for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
** There are three arguments: An 8-byte aligned pointer to the memory,
** the number of bytes in the memory buffer, and the minimum allocation size.
** ^If the first pointer (the memory pointer) is NULL, then SQLite reverts
** to using its default memory allocator (the system malloc() implementation),
** undoing any prior invocation of [SQLITE_CONFIG_MALLOC]. ^If the
** memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
** [SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
** allocator is engaged to handle all of SQLites memory allocation needs.
** The first pointer (the memory pointer) must be aligned to an 8-byte
** boundary or subsequent behavior of SQLite will be undefined.
** The minimum allocation size is capped at 2**12. Reasonable values
** for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[[SQLITE_CONFIG_MUTEX]] <dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> ^This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The argument specifies
** alternative low-level mutex routines to be used in place
**the mutex routines built into SQLite.)^ SQLite makes a copy of the
** content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** instance of the [sqlite3_mutex_methods] structure. The
** [sqlite3_mutex_methods]
** structure is filled with the currently defined mutex routines.)^
** This option can be used to overload the default mutex allocation
** routines with a wrapper used to track mutex usage for performance
** profiling or testing, for example. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** the entire mutexing subsystem is omitted from the build and hence calls to
** [sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
** return [SQLITE_ERROR].</dd>

**

** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>
** <dd> ^(This option takes two arguments that determine the default
** memory allocation for the lookaside memory allocator on each
** [database connection]. The first argument is the
** size of each lookaside buffer slot and the second is the number of
** slots allocated to each database connection.)^ ^(This option sets the
** <i>default</i> lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
** verb to [sqlite3_db_config()] can be used to change the lookaside
** configuration on individual connections.)^ </dd>

**

** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to
** an [sqlite3_pcache_methods2] object. This object specifies the interface
** to a custom page cache implementation.)^ ^SQLite makes a copy of the
** object and uses it for page cache memory allocations.</dd>

**

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>
** <dd> ^(This option takes a single argument which is a pointer to an
** [sqlite3_pcache_methods2] object. SQLite copies of the current
** page cache implementation into that object.)^ </dd>

**

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>
** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
** global [error log].
** (^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
** function with a call signature of void(*)(void*,int,const char*),
** and a pointer to void. ^If the function pointer is not NULL, it is
** invoked by [sqlite3_log()]{1} to process each logging event. ^If the
** function pointer is NULL, the [sqlite3_log()]{1} interface becomes a no-op.
** ^The void pointer that is the second argument to SQLITE_CONFIG_LOG is
** passed through as the first parameter to the application-defined logger
** function whenever that function is invoked. ^The second parameter to
** the logger function is a copy of the first parameter to the corresponding
** [sqlite3_log()]{1} call and is intended to be a [result code] or an
** [extended result code]. ^The third parameter passed to the logger is
** log message after formatting via [sqlite3_snprintf()]{1}.
** The SQLite logging interface is not reentrant; the logger function
** supplied by the application must not invoke any SQLite interface.
** In a multi-threaded application, the application-defined logger
** function must be threadsafe. */

**

** [SQLITE_CONFIG_URI] {1} <dt>SQLITE_CONFIG_URI
** <dd> This option takes a single argument of type int. If non-zero, then
** URI handling is globally enabled. If the parameter is zero, then URI handling
** is globally disabled. If URI handling is globally enabled, all filenames
** passed to [sqlite3_open()]{1}, [sqlite3_open_v2()]{1}, [sqlite3_open16()]{1} or
** specified as part of [ATTACH] commands are interpreted as URIs, regardless
** of whether or not the [SQLITE_OPEN_URI] flag is set when the database
** connection is opened. If it is globally disabled, filenames are
** only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the
** database connection is opened. By default, URI handling is globally
** disabled. The default value may be changed by compiling with the
** [SQLITE_USE_URI] symbol defined.

**

** [SQLITE_CONFIG_COVERING_INDEX_SCAN] {1} <dt>SQLITE_CONFIG_COVERING_INDEX_SCAN
** <dd> This option takes a single integer argument which is interpreted as
** a boolean in order to enable or disable the use of covering indices for
** full table scans in the query optimizer. The default setting is determined
** by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on"
** if that compile-time option is omitted.
** The ability to disable the use of covering indices for full table scans
** is because some incorrectly coded legacy applications might malfunction
** malfunction when the optimization is enabled. Providing the ability to
** disable the optimization allows the older, buggy application code to work
** without change even with newer versions of SQLite.

**

** [SQLITE_CONFIG_PCACHE] [SQLITE_CONFIG_GETPCACHE] {1} <dt>SQLITE_CONFIG_PCACHE and SQLITE_CONFIG_GETPCACHE
** <dd> These options are obsolete and should not be used by new code.
** They are retained for backwards compatibility but are now no-ops.
** */

**

** [SQLITE_CONFIG_SQLLOG] {1} <dt>SQLITE_CONFIG_SQLLOG
** <dd>This option is only available if sqlite is compiled with the
** [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should
** be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL In this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
** */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1049079049_1591308668.43/0/sqlite-3.7.17-8.el7_7.1-1.src.rpm-cosi-expand-archive-d7GDY6A0/sqlite-src-3071700.zip-cosi-expand-archive-dNlVkuI7/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and is thus free for

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if ![fts3] {
finish_test
return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts3ac-1.1 {
  db eval {
    CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
    BEGIN TRANSACTION;
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:

Parent’s Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transactionVolume Hedged
1    - 24990
2500 - 54995000
Leaving Early

If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay."

The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

The producer lumber pricing sheet.

-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM
To: Carter, Karen E.
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey'}

--- Original Message ----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

--- Original Message ----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy'}
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.

Thanks.

Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!";
Here is the information on staffing and outside services. Call if you need anything else.

Jim

');

INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,
Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.
In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.
Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.
- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610');

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com', 'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.
"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>

http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-Revised Reply Brief Due today 7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com', 'rwolkwitz@powermerchants.com', "");

Here is a goody for you):

INSERT INTO email([from],[to],subject,body) VALUES('ryan.o`rorourke@enron.com', 'k..allen@enron.com, randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001)', 'The report named: West VaR
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, gggreen2@txu.com, timpowell@txu.com, ', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap 10.000 / Enron ; 110.000 / HPL IFERC
LS HPL LSK IC 30.000 / Enron

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira);
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works. ');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295);
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,

The merged reports look great. I believe the only orientation changes are to
"unmerge" the following six reports:

- 31 Keystone Receipts
- 15 Questar Pipeline
- 40 Rockies Production
- 22 West_2
- 23 West_3
- 25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.';

INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '---------------------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ---------------------------
"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "'Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<<<Egyptian Festival.url>>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

');

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done..................................
 Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000 08:39 AM ---------------------------
From: William Kelly @ ECT

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David
Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Vince
"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

');
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com',
'mmmarcantel@equiva.com', 'RE: ', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team. PLEASE DO NOT TAKE, BORROW OR USE this equipment. Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760');
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here. SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. ‘Thanks! Ben’;

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.';

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.';
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Here are the documents that Peter has prepared for Mark Frevert.

Nailia

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)
Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/ licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katy tailgate GD at buyers option three days prior to NYMEX close.

');
INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '----------------------
Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM
----------------------
agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>
Subject: Columbia Distribution''s Capacity Available for Release - Sum


Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');
INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com', 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.);
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michelearly@earthlink.net', 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332
the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', '

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

It's been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com', 'email address change', 'Hello all.
I haven’t talked to many of you via email recently but I do want to give you
my new address for your email file:

   bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley');
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartzenburg@enron.com, scott.dieball@enron.com, recipients@enron.com', '2001 Enron Law Conference (Distribution List 2)', '2001 Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!
? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com', 'Re:', 'hey - thats funny about john - he definitely remembers him - i''ll call pat and let him know - we are coming on saturday - i just havent had a chance to call you guys back -- looking forward to it -- i probably need the directions again though');
INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com', 'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG  3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as
well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey;

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;

James D. Derrick
Attorney
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
JDerrick@enron.com;

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

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JDerrick@enron.com;

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Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;

James D. Derrick
Attorney
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
JDerrick@enron.com;

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Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;
gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays.

PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.
Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).

This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance

-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

INSERT INTO email([from],[to],subject,body) VALUES('d.thomas@enron.com', 'naveed.ahmed@enron.com',...
Paul,

I reviewed NY"s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

Paul
X 3-0403

-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Ahmed, Naveed
Sent:Tuesday, December 17, 2001 9:04 AM
To: Thomas, Paul D.
Subject: Current Enron TCC Portfolio
Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

Thanks

chris
x31666

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490;

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102
Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

Justin Boyd told me that you can help me with questions regarding Chile.

We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!

Best regards

Diana Seifert
EOL PCG

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.

http://expensexms.enron.com/
Please refer to the Worldwide Customer Support card for a complete technical support contact list.';

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corp
Albert LaMore
281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah
713-767-5374

Relaint
Steve McGinn
713-207-4000

Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->>> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyztzoolzprint.jpg');
  COMMIT;
} }

*******************************************************************************
# Everything above just builds an interesting test database. The actual
# tests come after this comment.

```
do_test fts3ac-1.2 {
   execsql {
      SELECT rowid FROM email WHERE email MATCH 'mark'
   } {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
   execsql {
      SELECT rowid FROM email WHERE email MATCH 'susan'
   } {24 40}
do_test fts3ac-1.4 {
   execsql {
      SELECT rowid FROM email WHERE email MATCH 'mark susan'
   } {40}
do_test fts3ac-1.5 {
   execsql {
      SELECT rowid FROM email WHERE email MATCH 'susan mark'
   } {40}
do_test fts3ac-1.6 {
   execsql {
      SELECT rowid FROM email WHERE email MATCH "mark susan"
   } {}
do_test fts3ac-1.7 {
   execsql {
      SELECT rowid FROM email WHERE email MATCH 'mark -susan'
   } {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
   execsql {
      SELECT rowid FROM email WHERE email MATCH '-mark susan'
   } {24}
do_test fts3ac-1.9 {
   execsql {
      SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
   } {6 17 24 25 38 40 42 73 74}
```

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
do_test fts3ac-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

do_test fts3ac-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}
do_test fts3ac-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "child product"
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}
# Snippet generator tests

#

do_test fts3ac-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}

do_test fts3ac-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b>here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> <b>service</b>}}

do_test fts3ac-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b> <b>Sheet</b> asset base for <b>potential</b> <b>reuse</b>/ licensing Contract negotiations}}

do_test fts3ac-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> asset base for <<<potential>>> <<<reuse>>>/ licensing Contract negotiations}}

do_test fts3ac-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now }}

do_test fts3ac-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
} {{<b>...</b><b>chris</b>.germany@enron.com" <<b>chris</b><b>...</b><b>bet this <b>is</b> next to<b>...</b><b>about going <b>here</b> Christmas eve<b>...</b></b>}}

do_test fts3ac-4.7 {
  execsql {
    SELECT snippet(email) FROM email
  }
}
WHERE email MATCH "pursuant to"
}
{
Erin:

<b>Pursuant</b> <b>to</b> your request, attached are the Schedule to the ISDA Master Agreement, together<b>...</b>]]
do_test fts3ac-4.8 {
edsql {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'ancillary load davis'
}
} {{pete.<b>davis</b>@enron.com<b>...</b>3; No <b>ancillary</b>/<b>h> schedules awarded<b>...</b>detected in <b>Load</b/<b>h> schedule.

LOG<b>...</b>}}

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
edsql {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'questar enron OR com'
}
} {{matt.smith@<b>enron</b>.<b>com</b><b>...</b>31 Keystone Receipts
15 <b>Questar</b/<b>h> Pipeline
40 Rockies<b>...</b>}}
do_test fts3ac-5.2 {
edsql {
   SELECT snippet(email) FROM email
   WHERE email MATCH 'enron OR com questar'
}
} {{matt.smith@<b>enron</b>.<b>com</b><b>...</b>31 Keystone Receipts
15 <b>Questar</b/<b>h> Pipeline
40 Rockies<b>...</b>}}

#---------------------------------------------------------------
# Test a problem reported on the mailing list.
#
do_test fts3ac-6.1 {
edsql {
   CREATE VIRTUAL TABLE ft USING fts3(one, two);
   INSERT INTO ft VALUES('', 'foo');
   INSERT INTO ft VALUES('foo', 'foo');
   SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
execsql {
    DELETE FROM ft WHERE one = 'foo';
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}

finish_test

Found in path(s):

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

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<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
<h1 align="center">
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</p></li>
</ol>

<p>
<table width="100%" cellpadding="0" cellspacing="0">
<tr>
<td width="60%" valign="top">
Signature:
</td><td valign="top" align="left">
Date:
</td></tr>
<th colspan=2>
Name (printed):
</td></tr>
</table>
</p>

Found in path(s):

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

)print dup( )cvs print

Found in path(s):
* [cvx $error/errormessage get(Error

**1.204 commons-io 1.3.2**

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1.205 ironjacamar-jdbc 1.0.15.Final

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1.206 jboss-jms-api 1.0.1.Final

1.207 pciutils 3.5.1-3.el7

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1.214 flex-json 2.1

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1.215 python 2.7.5-90.el7

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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

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1.234 popt 1.13 16.el7

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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/client/ClientHttpResponse.java
* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/client/InterceptingClientHttpRequestFactory.java
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-jar/org/springframework/http/converter/StringHttpMessageConverter.java
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  jar/org/springframework/http/server/ServerHttpResponse.java
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* /opt/cola/permits/1141297363_1614968782.46/0/spring-web-4-3-22-release-sources-3-
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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <ttypso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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This package was put together by Yann Dirson <dirson@debian.org>,

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#
# This is a Makefile stub which handles the creation of BSD shared
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#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

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

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 42463
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \\
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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Theodore Ts'o
23-June-2007

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* /opt/cola/permits/1023216454_1637274309.8/0/jsr299-api-1-0-0-preview1-jar/web-beans.xsd

1.247 tevent 0.9.37-1.el7

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/*
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generalised event loop handling

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1.248 cogl 1.22.2-2.el7

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jar/org/springframework/core/convert/support/CharacterToNumberFactory.java
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* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/convert/TypeDescriptor.java
* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/convert/converter/GenericConverter.java
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* /opt/cola/permits/1136652693_1613848766.9/0/spring-core-3-0-7-release-sources-4-jar/org/springframework/core/BridgeMethodResolver.java
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EXHIBIT A

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
 * interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 *
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers
 * as needed. This means that data must always be copied to create
 * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire
 * SDU, and leave <small_buffer_data> bytes empty at the start. Then
 * copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large
 * buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
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*
* M. Welsh, 6 July 1996
*
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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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GlfName: copyright
Width: 862
Flags: HMW
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Back
SplineSet
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335 156 273 218 273 327 c 0
273 382 287 427 315 462 c 0
344 498 390 515 452 515 c 0
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526 452 l 1
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jar/org/osgi/service/condpermadmin/BundleLocationCondition.java

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*/

/**
* Creates a new <code>PackagePermission</code> object.
* 
* <p>
*/
* The name is specified as a normal Java package name: a dot-separated string. Wildcards may be used.

* *

* <pre>
* name ::= &lt;package name&gt; | &lt;package name ending in &quot;.*&quot; | *
* </pre>

* *

* Examples:

* *

* <pre>
* org.osgi.service.http
* javax.servlet.*
* *
* </pre>

* *

* For the <code>import</code> action, the name can also be a filter expression. The filter gives access to the following attributes:

* <ul>
* <li>signer - A Distinguished Name chain used to sign the exporting bundle. Wildcards in a DN are not matched according to the filter string rules, but according to the rules defined for a DN chain.</li>
* <li>location - The location of the exporting bundle.</li>
* <li>id - The bundle ID of the exporting bundle.</li>
* <li>name - The symbolic name of the exporting bundle.</li>
* <li>package.name - The name of the requested package.</li>
* </ul>

* Filter attribute names are processed in a case sensitive manner.

* *

* <p>
* Package Permissions are granted over all possible versions of a package.

* *

* A bundle that needs to export a package must have the appropriate <code>PackagePermission</code> for that package; similarly, a bundle that needs to import a package must have the appropriate <code>PackagePermission</code> for that package.

* *

* Permission is granted for both classes and resources.

* *

* @param name Package name or filter expression. A filter expression can only be specified if the specified action is <code>import</code>.

* @param actions <code>exportonly</code>,<code>import</code> (canonical order).

* @throws java.lang.IllegalArgumentException If the specified name is a filter expression and either the specified action is not <code>import</code> or the filter has an invalid syntax.

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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/BundleActivator.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/BundleEvent.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/BundleContext.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/Configurable.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/ServiceEvent.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/ServicePermission.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/ServiceReference.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/AdminPermission.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/Filter.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/ServiceRegistration.java

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

Found in path(s):
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/Constants.java
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* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources.jar/org/osgi/framework/FrameworkListener.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources.jar/org/osgi/framework/ServiceFactory.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources.jar/org/osgi/framework/InvalidSyntaxException.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources.jar/org/osgi/framework/BundleException.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources.jar/org/osgi/framework/ServiceListener.java
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources.jar/org/osgi/framework/BundleListener.java
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   jar/org/osgi/service/permissionadmin/PermissionInfo.java
 * /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
   jar/org/osgi/service/packageadmin/PackageAdmin.java
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   jar/org/osgi/service/url/URLStreamHandlerSetter.java
 * /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
   jar/org/osgi/service/url/AbstractURLStreamHandlerService.java
 * /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
   jar/org/osgi/service/url/URLStreamHandlerService.java
 * /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-
   jar/org/osgi/service/url/URLConstants.java
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*/
/**
* Return the certificates for the signers of this bundle and the
* certificate chains for those signers.
*
* @param signersType If [@link #SIGNERS_ALL] is specified, then information
* on all signers of this bundle is returned. If
* [@link #SIGNERS_TRUSTED] is specified, then only information on
* the signers of this bundle trusted by the framework is returned.
* @return The <code>X509Certificate</code>s for the signers of this bundle
* and the <code>X509Certificate</code> chains for those signers.
* The keys of the <code>Map</code> are the
* <code>X509Certificate</code>s of the signers of this bundle. The
* value for a key is a <code>List</code> containing the
* <code>X509Certificate</code> chain for the signer. The first item
* in the <code>List</code> is the signer's
* <code>X509Certificate</code> which is then followed by the rest
* of the <code>X509Certificate</code> chain. The returned
* <code>Map</code> will be empty if there are no signers. The
* returned <code>Map</code> is the property of the caller who is
* free to modify it.
* @throws IllegalArgumentException If the specified
* <code>signersType</code> is not [@link #SIGNERS_ALL] or
* [@link #SIGNERS_TRUSTED].
* @since 1.5
*/

Found in path(s):
* /opt/cola/permits/1132217478_1613127164.67/0/org-osgi-core-4-2-0-redhat-4-sources-jar/org/osgi/framework/Bundle.java

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1.265 vim 7.4.629-6.el7
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    *uganda.txt*    For Vim version 7.4.  Last change: 2013 Jul 06

    VIM REFERENCE MANUAL    by Bram Moolenaar

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SUMMARY
*iccf* *ICCF*

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

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

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

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=== begin of license ===

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Note:

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

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

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

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Kibaale Children's Centre

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

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

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

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

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

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

*donate*

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

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

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

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

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

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

Sending money:*iccf-donations*

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

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

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

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

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

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

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

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

Others: Transfer to one of these accounts if possible:
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   Swift code: INGB NL 2A
   IBAN: NL95 INGB 0004 5487 74
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1.266 postgresql-jdbc 42.2.5.jre7
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1.267 commons-logging 1.1.3

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  table, the facility still operates, and performs whatever part of
  its purpose remains meaningful.

  (For example, a function in a library to compute square roots has
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  application. Therefore, Subsection 2d requires that any
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.291 zlib 1.2.8

1.291.1 Available under license :
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

*/

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1.292 mime-pull 1.9.13

1.292.1 Available under license :

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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/metro-xmlstreambuffer
* https://github.com/eclipse-ee4j/metro-policy
* https://github.com/eclipse-ee4j/metro-wsit
* https://github.com/eclipse-ee4j/metro-mimepull
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* https://github.com/eclipse-ee4j/metro-jwsdp-samples
* https://github.com/eclipse-ee4j/jax-rpc-ri

## Third-party Content

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addressing.xml Version: 2004/10 (n/a)

* License: W3C
* Project: https://www.w3.org/Submission/ws-addressing/
* Source: http://schemas.xmlsoap.org/ws/2004/08/addressing/

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* Project: https://ant.apache.org/
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Apache Ant (1.10.2)

* License: Apache-2.0 AND W3C AND LicenseRef-Public-Domain

commons-logging (1.1.2)

* License: Apache-2.0
  * Project: https://commons.apache.org/proper/commons-logging/
  * Source:
    http://central.maven.org/maven2/commons-logging/commons-logging/1.1.2/commons-logging-1.1.2-sources.jar

JUnit (4.12)

* License: Eclipse Public License

maven-core (3.5.2)

* License: Apache-2.0

maven-plugin-annotations (3.5.1)

* License: Apache-2.0
  * Project:
  * Source:
    https://github.com/apache/maven-plugin-tools/tree/maven-plugin-tools-3.5.1/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0
  * Project: https://maven.apache.org/
  * Source: https://github.com/apache/maven/tree/master/maven-plugin-api

maven-resolver-api (1.1.1)

* License: Apache-2.0

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maven-settings (3.5.2)

* License: Apache-2.0

mex.xsd Version: 2004/09 (n/a)

* License: Oasis Style
plexus-utils (3.1.0)

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relaxng-datatype (1.0)

* License: New BSD license

stax2-api (4.1)

* License: Pending
* Project: https://github.com/FasterXML/stax2-api

testng (6.14.2)

* License: Apache-2.0 AND MIT
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

woodstox-core-asl (4.4.1)

* License: Apache-2.0

woodstox-core-asl (5.1.0)

* License: Pending
* Project: https://github.com/FasterXML/woodstox
* Source: https://github.com/FasterXML/woodstox

ws-addr.wsd (1.0)

* License: W3C
* Project: https://www.w3.org/2005/08/addressing/
* Source: https://www.w3.org/2006/03/addressing/ws-addr.xsd

wsat.xsd Version: 2004/10 (n/a)

* License: Oasis Style
* Source: http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd

wscoor.xsd (1.0)
* License: OASIS Style

wscoor.xsd (1.1)

* License: Oasis (Custom)
* Project: http://docs.oasis-open.org/ws-tx/wscoor/2006/06
* Source:
  http://docs.oasis-open.org/ws-tx/wscoor/2006/06/wstx-wscoor-1.1-schema-200701.xsd

wsrm Version: 2005/02 (n/a)

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* Project: http://schemas.xmlsoap.org/ws/2005/02/rm/
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wsrm.xsd (1.2)

* License: Oasis

wstx-wsat.xsd (1.1)

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xmlsec (1.5.8)

* License: Apache-2.0
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## Cryptography

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1.293 pkg-config 0.27.1-4.el7

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Ty Coon, President of Vice

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1.307 netty-handler-proxy 4.1.49.Final
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* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-
  jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-
  jar/io/netty/handler/proxy/HttpProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-
  jar/io/netty/handler/proxy/package-info.java
* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-
  jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-
  jar/io/netty/handler/proxy/ProxyConnectException.java
* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-
  jar/io/netty/handler/proxy/ProxyHandler.java
* /opt/ws_local/PERMITS_SQL/1068497266_1594417706.27/0/netty-handler-proxy-4-1-49-final-sources-1-
  jar/io/netty/handler/proxy/Socks5ProxyHandler.java

1.308 mod-cluster-container-catalina

1.2.6.Final-redhat-1

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1.309 stix-fonts 1.1.0-5.el7

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%global fontname stix
%global fontconf 61-%{fontname}

%global archivename STIXv%{version}

%global common_desc \nThe mission of the Scientific and Technical Information Exchange (STIX) font \ncreation project is the preparation of a comprehensive set of fonts that serve \n
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 43011
the scientific and engineering community in the process from manuscript \creation through final publication, both in electronic and print formats.

Name:    %{fontname}-fonts
Version: 1.1.0
Release: 5%{?dist}
Summary: Scientific and engineering fonts

Group:   User Interface/X
License: OFL
URL:     http://www.stixfonts.org/
Source0: http://downloads.sourceforge.net/stixfonts/%{archivename}.zip
Source10: stix-fonts-fontconfig.conf
Source11: stix-fonts-math-fontconfig.conf

BuildArch:  noarch
BuildRequires: fontpackages-devel
Requires:    fontpackages-filesystem

Obsoletes: stix-fonts-doc < 1.1.0

%description
%common_desc

This package includes base Unicode fonts containing most glyphs for standard use in the usual four styles.

_%font_pkg -f %{fontconf}.conf STIX-*otf
%doc License/*.pdf *.pdf

%package -n %{fontname}-math-fonts
Summary:   Scientific and engineering fonts, PUA glyphs
Requires:  %{name} = %{version}-%{release}

Obsoletes: stix-integrals-fonts < 1.1.0
Obsoletes: stix-pua-fonts < 1.1.0
Obsoletes: stix-sizes-fonts < 1.1.0
Obsoletes: stix-variants-fonts < 1.1.0

%description -n %{fontname}-math-fonts
%common_desc

This package includes one symbol font completing the four faces in the main %{name} package. It replaces the heap of confusing fontlets in the first Stix release.
%_font_pkg -n math -f %{fontconf}-math.conf STIXMath*.otf

%prep
%setup -q -c

%build

%install
rm -fr %{buildroot}

install -m 0755 -d %{buildroot}%{_fontdir}
install -m 0644 -p Fonts/STIX-Word/*.otf %{buildroot}%{_fontdir}

install -m 0755 -d %{buildroot}%{_fontconfig_templatedir}\\
   %{buildroot}%{_fontconfig_confdir}
install -m 0644 -p %{SOURCE10}\\
   %{buildroot}%{_fontconfig_templatedir}/%{fontconf}.conf
install -m 0644 -p %{SOURCE11}\\
   %{buildroot}%{_fontconfig_templatedir}/%{fontconf}-math.conf
for fconf in %{fontconf}.conf\\
   %{fontconf}-math.conf ; do
   ln -s %{_fontconfig_templatedir}/$fconf\\
   %{buildroot}%{_fontconfig_confdir}/$fconf
done

%clean
rm -fr %{buildroot}

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.1.0-5
  - Mass rebuild 2013-12-27

* Fri Feb 15 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.1.0-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Thu Nov 08 2012 Stanislav Ochotnicky <sochotnicky@redhat.com> - 1.1.0-3
  - Upstream changed their tarball with new pdf, rebuild

* Sat Jul 21 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.1.0-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild
* Sun Jul 8 2012 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 1.1.0-1
  Update to new stable release
  Major refactoring now that some sanity prevailed upstream in font naming
  Be careful if you used the old font family names

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.0.0-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.0.0-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Sun Jul 25 2010 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 1.0.0-1
  Update to non-beta release
  Switch licensing to OFL
  Add -doc subpackage

* Sun Jul 26 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>
  - 0.9-13
  Rebuilt for https://fedoraproject.org/wiki/Fedora_12_Mass_Rebuild

* Wed Feb 25 2009 Fedora Release Engineering <rel-eng@lists.fedoraproject.org>
  - 0.9-12
  Rebuilt for https://fedoraproject.org/wiki/Fedora_11_Mass_Rebuild

* Mon Feb 16 2009 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 0.9-11
  prepare for F11 mass rebuild, new rpm and new fontpackages

* Fri Jan 16 2009 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 0.9-10
  Convert to new naming guidelines

* Sun Nov 23 2008 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 0.9-9
  rpm-fonts renamed to fontpackages

* Fri Nov 14 2008 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 0.9-8
  Rebuild using new rpm-fonts

* Fri Jul 11 2008 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 0.9-7
  Fedora 10 alpha general package cleanup

* Thu Nov 1 2007 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  0.9-6
Add some fontconfig aliasing rules
0.9-4
Initial experimental packaging

Found in path(s):
* /opt/cola/permits/1141013441_1614921652.47/0/stix-fonts-1.1.0-5.el7-1.src.rpm-cosi-expand-archive-
fSeyKmQq/stix-fonts.spec

1.310 acl 2.2.51-14.el7

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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7. You may place library facilities that are a work based on the
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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written offer, valid for at least three years and valid for as
long as you offer spare parts or customer support for that product
model, to give anyone who possesses the object code either (1) a
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from the Corresponding Source as a System Library, need not be
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product received by a particular user, "normally used" refers to a
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 */opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/logging/LoggingHandler.java
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/SimpleKeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/address/package-info.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java

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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
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  jar/io/netty/handler/ssl/PemX509Certificate.java
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  jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
* /opt/ws_local/PERMITS_SQL/1068232349_1594320675.63/0/netty-handler-4-1-49-final-sources-1-
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Eclipse

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

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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Oracle OpenJDK

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

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html
OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

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The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas
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This is the Debian GNU/Linux prepackaged version of the deferred execution scheduler called at.

This package was debianized by its author Thomas Koenig <ig25@rz.uni-karlsruhe.de>, taken over and re-packaged first by Martin Schulze <joey@debian.org> and then by Siggy Brentrup <bsb@winnegan.de>, and then taken over by Ryan Murray <rmurray@debian.org>.

In August 2009 the upstream development and Debian packaging were taken over by Ansgar Burchardt <ansgar@debian.org> and Cyril Brulebois <kibi@debian.org>.

This may be considered the experimental upstream source, and since there doesn't seem to be any other upstream source, the only upstream source.

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its purpose remains meaningful.

(For example, a function in a library to compute square roots has

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

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/container/Converter.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/reflect/Target.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/reflect/ReferenceListener.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/reflect/RefMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/container/EventConstants.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/container/BeanArgument.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/container/BlueprintEvent.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/container/ReifiedType.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/container/BlueprintEvent.java
jar/org/osgi/service/blueprint/reflect/PropsMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
  jar/org/osgi/service/blueprint/reflect/ServiceReferenceMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
  jar/org/osgi/service/blueprint/reflect/NonNullMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
  jar/org/osgi/service/blueprint/reflect/ReferenceListMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
  jar/org/osgi/service/blueprint/reflect/IdRefMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
  jar/org/osgi/service/blueprint/reflect/ValueMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
  jar/org/osgi/service/blueprint/container/NoSuchComponentException.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
  jar/org/osgi/service/blueprint/reflect/ServiceMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
  jar/org/osgi/service/blueprint/reflect/MapEntry.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
  jar/org/osgi/service/blueprint/reflect/ComponentMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
  jar/org/osgi/service/blueprint/container/ServiceUnavailableException.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
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This interface is used to manage a database of named <code>Role</code> objects,
which can be used for authentication and authorization purposes.

This version of the User Admin service defines two types of <code>Role</code>
objects: "User" and "Group". Each type of role is represented by an
<code>int</code> constant and an interface. The range of positive integers is
reserved for new types of roles that may be added in the future. When
defining proprietary role types, negative constant values must be used.

Every role has a name and a type.

A <link User> object can be configured with credentials (e.g., a password)
and properties (e.g., a street address, phone number, etc.).

A <link Group> object represents an aggregation of <link User> and
<link Group> objects. In other words, the members of a <code>Group</code>
object are roles themselves.

Every User Admin service manages and maintains its own namespace of
<code>Role</code> objects, in which each <code>Role</code> object has a unique
name.

@version $Revision: 5673 $

Found in path(s):

/opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/UserAdmin.java

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*/
/** */
* Service for administering configuration data.
*<p>
* The main purpose of this interface is to store bundle configuration data
* persistently. This information is represented in <code>Configuration</code>
* objects. The actual configuration data is a <code>Dictionary</code> of
* properties inside a <code>Configuration</code> object.
*<p>
* There are two principally different ways to manage configurations. First
* there is the concept of a Managed Service, where configuration data is
* uniquely associated with an object registered with the service registry.
*<p>
* Next, there is the concept of a factory where the Configuration Admin service
* will maintain 0 or more <code>Configuration</code> objects for a Managed
* Service Factory that is registered with the Framework.
*<p>
* The first concept is intended for configuration data about "things/services"
* whose existence is defined externally, e.g. a specific printer. Factories are
* intended for "things/services" that can be created any number of times, e.g.
* a configuration for a DHCP server for different networks.
*<p>
* Bundles that require configuration should register a Managed Service or a
* Managed Service Factory in the service registry. A registration property
* named <code>service.pid</code> (persistent identifier or PID) must be used to
* identify this Managed Service or Managed Service Factory to the Configuration
* Admin service.
*<p>
* When the ConfigurationAdmin detects the registration of a Managed Service, it
* checks its persistent storage for a configuration object whose
* <code>service.pid</code> property matches the PID service property ( *
* <code>service.pid</code>) of the Managed Service. If found, it calls
* [ @link ManagedService#updated] method with the new properties. The
* implementation of a Configuration Admin service must run these call-backs
* asynchronously to allow proper synchronization.
*
* When the Configuration Admin service detects a Managed Service Factory
* registration, it checks its storage for configuration objects whose
* <code>service.factoryPid</code> property matches the PID service property of
* the Managed Service Factory. For each such <code>Configuration</code>
* objects, it calls the <code>ManagedServiceFactory.updated</code> method
* asynchronously with the new properties. The calls to the <code>updated</code>
* method of a <code>ManagedServiceFactory</code> must be executed sequentially
* and not overlap in time.
*
* In general, bundles having permission to use the Configuration Admin service
* can only access and modify their own configuration information. Accessing or
* modifying the configuration of another bundle requires
* <code>ConfigurationPermission[*,CONFIGURE]</code>.
*
* <code>Configuration</code> objects can be <i>bound</i> to a specified bundle
* location. In this case, if a matching Managed Service or Managed Service
* Factory is registered by a bundle with a different location, then the
* Configuration Admin service must not do the normal callback, and it should
* log an error. In the case where a <code>Configuration</code> object is not
* bound, its location field is <code>null</code>, the Configuration Admin
* service will bind it to the location of the bundle that registers the first
* Managed Service or Managed Service Factory that has a corresponding PID
* property. When a <code>Configuration</code> object is bound to a bundle
* location in this manner, the Configuration Admin service must detect if the
* bundle corresponding to the location is uninstalled. If this occurs, the
* <code>Configuration</code> object is unbound, that is its location field is
* set back to <code>null</code>.
*
* The method descriptions of this class refer to a concept of "the calling
* bundle". This is a loose way of referring to the bundle which obtained the
* Configuration Admin service from the service registry. Implementations of
* <code>ConfigurationAdmin</code> must use a
* [ @link org.osgi.framework.ServiceFactory] to support this concept.
*
* @version $Revision: 8483 $
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/cm/ManagedService.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/User.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/Authorization.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/cm/ConfigurationPlugin.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/cm/ConfigurationException.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/UserAdminEvent.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/Group.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/useradmin/Role.java

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  jar/org/osgi/util/tracker/BundleTrackerCustomizer.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
  jar/org/osgi/util/tracker/BundleTracker.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-
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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/reflect/CollectionMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/reflect/MapMetadata.java
* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/blueprint/container/BlueprintContainer.java

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* /opt/cola/permits/1132217574_1613127158.51/0/org-osgi-enterprise-4-2-0-redhat-4-sources-jar/org/osgi/service/metatype/MetaTypeProvider.java

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1.347 gconf 3.2.6-8.el7

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1.348 shadow-utils 4.6-5.el7
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* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/profiler/SpacePadder.java
* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/ext/EventException.java
* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/profiler/DurationUnit.java
* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/profiler/TimeInstrumentStatus.java
* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/ext/LoggerWrapper.java
* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/profiler/Util.java
* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/call10n/LocLoggerFactory.java
* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/ext/EventLogger.java
* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/ext/LoggerWrapper.java
* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/profiler/Profile.java
* /opt/cola/permits/1132217560_1613127135.01/0/slf4j-ext-1-7-2-redhat-3-sources-jar/org/slf4j/profiler/TimeInstrument.java

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1.355 swagger 1.5.20
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```java
3name()Ljava/lang/String;urlAnnotationDefault
SourceFileLicense.javaRuntimeVisibleAnnotationsLjava/lang/annotation/Target;value"Ljava/lang/annotation/Element;
Type:ANNOTATION_TYPE
Ljava/lang/annotation/Retention;&Ljava/lang/annotation/RetentionPolicy;RUNTIMEio/swagger/annotations/License;
java/lang/Objectjava/lang/annotation/Annotation&
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[...]

1.356 perl 1.04-294.el7_6

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1.357 policy 2.0-b01

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2.jar/org/springframework/web/servlet/mvc/method/annotation/ViewNameMethodReturnValueHandler.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2.jar/org/springframework/web/servlet/view/groovy/GroovyMarkupViewResolver.java
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/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality, protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
* 
* <p>View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}. 
*
* @author Rossen Stoyanchev
* @since 3.1
*/

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* /opt/cola/permits/114298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java
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/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* [ @link #locateSource detected ] during response rendering. Users can either specify
* a specific entry in the model via the [ @link #setSourceKey sourceKey ] property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See [ @link #getSourceTypes() here]
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure [ @link #setOutputProperties output properties]
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/xslt/XsltView.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/ContentVersionStrategy.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/i18n/CookieLocaleResolver.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/resource/WebJarsResourceResolver.java
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  jar/org/springframework/web/servlet/ViewResolver.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
  jar/org/springframework/web/servlet/view/velocity/VelocityViewResolver.java
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  jar/org/springframework/web/servlet/handler/AbstractDetectingUrlHandlerMapping.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2.jar/org/springframework/web/servlet/tags/form/RadioButtonsTag.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2.jar/org/springframework/web/servlet/view/freemarker/FreeMarkerConfigurer.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2- jar/org/springframework/web/servlet/tags/form/RadioButtonTag.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/feed/AbstractFeedView.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/jasperreports/JasperReportsCsvView.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/jasperreports/JasperReportsXlsView.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/jasperreports/AbstractJasperReportsSingleFormatView.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/tiles3/SpringWildcardServletTilesApplicationContext.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/view/tiles3/PasswordInputTag.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/config/VelocityConfigurerBeanDefinitionParser.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/config/annotation/UrlBasedViewResolverRegistration.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/config/GroovyMarkupConfigurerBeanDefinitionParser.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/config/GroovyMarkupConfigurerBeanDefinitionParser.java
* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-jar/org/springframework/web/servlet/config/VelocityConfigurerBeanDefinitionParser.java
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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
  jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
  /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
  jar/org/springframework/web/servlet/support/JstlUtils.java
  /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
  jar/org/springframework/web/servlet/view/velocity/VelocityView.java
  /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
  jar/org/springframework/web/servlet/ThemeResolver.java

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* /opt/cola/permits/1141298140_1614968794.16/0/spring-webmvc-4-3-22-release-sources-2-
  jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java

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<interface>
<!-- interface-requires gtk+ 3.6 -->
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<object class="GtkTextBuffer" id="eulaBuffer">
  <property name="text">The license will go here</property>
</object>
<object class="AnacondaSpokeWindow" id="eulaWindow">
  <property name="can_focus">False</property>
  <property name="hexpand">True</property>
  <property name="vexpand">True</property>
  <property name="window_name" translatable="yes">LICENSE INFORMATION</property>
  <signal name="button-clicked" handler="on_back_clicked" swapped="no"/>
  <child internal-child="main_box">
    <object class="GtkBox" id="AnacondaSpokeWindow-main_box1">
      <property name="can_focus">False</property>
      <property name="orientation">vertical</property>
      <property name="spacing">6</property>
      <child internal-child="nav_box">
        <object class="GtkEventBox" id="AnacondaSpokeWindow-nav_box1">
          <property name="app_paintable">True</property>
          <property name="orientation">vertical</property>
          <property name="spacing">6</property>
          <child internal-child="nav_area">
            <object class="GtkGrid" id="AnacondaSpokeWindow-nav_area1">
              <property name="can_focus">False</property>
              <property name="margin_left">6</property>
              <property name="margin_right">6</property>
              <property name="margin_top">6</property>
            </object>
          </child>
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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1.365 spring-jdbc 2.5.6
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1.373 hibernate 5.2.17.Final

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

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1.381 e2fsprogs 1.42.9-19.el7

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image:$(BSD_LIB)

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

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

install-shlibs-strip:: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Index: tdbsa/tdb.c
--- tdbsa.orgin/dba.c
+++ tdbsa/dba.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
/*
  - Unix SMB/CIFS implementation.
  + trivial database library - standalone version

  - trivial database library - private includes
  
  - Copyright (C) Andrew Tridgell 2005
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Theodore Ts'o
23-June-2007

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derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven Bundle Plugin
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.15
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2020-12-12T23:22:23Z
X-Builder: Maven 3.6.3
X-Compile-Source: 1.4
X-Compile-Target: 1.4
Bnd-LastModified: 1607815367579
Bundle-Description: XStream is a serialization library from Java objects to XML and back.
Bundle-DocURL: http://x-stream.github.io
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core
Bundle-SymbolicName: xstream
Bundle-Vendor: XStream
Bundle-Version: 1.4.15
Export-Package: com.thoughtworks.xstream;version="1.4.15",com.thoughtworks.xstream.annotations;version="1.4.15",com.thoughtworks.xstream.converters;version="1.4.15",com.thoughtworks.xstream.converters.basic;version="1.4.15",com.thoughtworks.xstream.converters.collections;version="1.4.15",com.thoughtworks.xstream.converters.enums;version="1.4.15",com.thoughtworks.xstream.converters.extended;version="1.4.15",com.thoughtworks.xstream.converters.javabean;version="1.4.15",com.thoughtworks.xstream.converters.time;version="1.4.15",com.thoughtworks.xstream.core;version="1.4.15",com.thoughtworks.xstream.io;version="1.4.15",com.thoughtworks.xstream.io.binary;version="1.4.15",com.thoughtworks.xstream.io.copy;version="1.4.15",com.thoughtworks.xstream.io.json;version="1.4.15",com.thoughtworks.xstream.io.naming;version="1.4.15",com.thoughtworks.xstream.io.path;version="1.4.15",com.thoughtworks.xstream.io.xml;version="1.4.15",com.thoughtworks.xstream.io.xml.xppdom;version="1.4.15",com.thoughtworks.xstream.mapper;version="1.4.15",com.thoughtworks.xstream.persistence;version="1.4.15",com.thoughtworks.xstream.security;version="1.4.15"
Import-Package: org.xmlpull.mxp1;resolution:=optional,org.xmlpull.v1;resolution:=optional,com.ibm.xml.xlisp.api.stax;resolution:=optional,com.sun.xml.internal.stream;resolution:=optional,javax.activation;resolution:=optional,javax.security.auth;resolution:=optional,javax.swing;resolution:=optional,javax.swing.plaf;resolution:=optional,javax.xml.bind;resolution:=optional;version="[2.3,3)",javax.xml.datatype;resolution=optional,
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<li>Holders of <a href="https://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!</li>
<li><a href="http://www.grierforensics.com">Grier Forensics</a>, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.</li>
<li>TU-Darmstadt, Computer Science Department, RBG, for the initial lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muehlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.</li>
<li>TU-Darmstadt, Computer Science Department, RBG, for the initial Post Quantum provider, which was based on the FlexiProvider. The FlexiProvider was developed by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at: <a href="http://www.flexiprovider.de">http://www.flexiprovider.de</a></li>
<li>Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com">http://voxeolabs.com</a></li>
<li><a href="https://www.coreinfrastructure.org">Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.</li>
<li>Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de">cryptosource GmbH</a> and <a href="https://www.mtg.de">media Transfer AG</a> both located in Darmstadt, Germany.</li>
<li><a href="https://www.microfocus.com">Micro Focus</a> - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.</li>
</ul>

People

<ul>
<li>Tito Pena &lt;Fortunato.Pena@AdNovum.CH&gt; - initial RC5 implementation</li>
<li>Michael Lee &lt;yfl@miira.net&gt; - initial RC6 implementation, MD2 implementation</li>
<li>Nuno Santos &lt;nsantos@student.dei.uc.pt&gt; - finding toString bug in certificate object.</li>
<li>Brett Sealey &lt;bretts#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).</li>
<li>Victor A. Salaman &lt;salaman@teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.</li>
<li>Eran Librach &lt;eranl#064;valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).</li>
</ul>
Jonathan Knudsen &lt;jonathan@LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Markus Niedermann &lt;markus.niedermann#softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.

Mike Benham &lt;moxie#thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.

Soren Hilmer &lt;hilmer#mail.tele.dk&gt; - initial implementation of netscape certificate request classes.

Uwe Guenther &lt;uwe#csc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.

Markus Bradtke &lt;mab#informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.

Waclaw Sierek &lt;waclaw.sierek#tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN.1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.

Ly-Na Phu &lt;lyna.phu#csc.de&gt; - assistance in the addition of ISO 9796-1 padding.

Stefan Kouns#sell &lt;sk13#mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see http://sourceforge.net/projects/jcf/.

Tomas Gustavsson &lt;tomasm#primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.

Eugene Kuleshov &lt;euxx#hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.

Megan Woods &lt;meganwoods#sekurafile.com&gt; - initial implementation of ECIES.

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Michael Mansell &lt;me#michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.

Eike Recker &lt;eike.recker#gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.

Chris Southern &lt;CSouthern@baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certificate request class.
Sidney Markowitz &lt;sidney@sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.

Chris Kerr &lt;ckerr@filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.

Mike Bean &lt;mbean@#064;lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.

Martin Petraschek &lt;e9526225@#064;student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.

Jess Garms &lt;jgarms@yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.

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Stef Hoeben &lt;ilsestef@#064;skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.

Klaudiusz Ciosk &lt;kciosk@#064;max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.

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Don Hillsberry &lt;hillsber@#064;dialcorp.com&gt; - S/Mime testing and debugging.

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Joel Hockey &lt;joel.hockey@#064;qsipayments.com&gt; - initial work on the openSSL PEM processing.

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Andrea Wehnert &lt;aw5@#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer clearing issue in buffered block cipher.

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Tim Sakach &lt;tsakach@certivo.net&gt; - SMIME v2 compatibility patches.

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Sebastian Clau&szlig; &lt;sc2@#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.

Nicolas Bielza &lt;nicolas.bielza@#064;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming SMIME classes.

Casey Marshall &lt;rsdio@#064;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.
Rick Zeldes &lt;rick.zeldes@eds.com&gt; - initial code for CMS/SMIME CompressedData.

Jarek Gawor &lt;gawor@mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.

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Graham Coles &lt;graham.coles@#064:retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.

Jorn von Kattchee &lt;J.Kattchee@#064:seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.

Matteo Artuso &lt;matartuso@#064:libero.it&gt; - picking up the possible overead in ASN1InputStream.

Julian Morrison &lt;julian@#064:extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.

Elmar Sonnenschein &lt;esoso@#064:esomail.de&gt; - fix to long conversion in clean room SecureRandom.

Jorn Schwarze &lt;JSchwarze@#064:ulae.de&gt; - Locale fix for the clean room JCE.

Bryan Lovquist &lt;bkl@#064:cps.com.au&gt; - Other provider compatibility fixes for CMS signing.

Artem Portnoy &lt;Artem_Portnoy@#064:ibi.com&gt; - generalisations for CMSProcessableBodyPart in SMIME. Header fix for mime messages.

Michael H&auml;usler &lt;haeusler@ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.

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Marc Doberva &lt;marc.doberva@#064:lexi-si.com&gt; - help in isolating the JSSE/BC RSA key issue.

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Joe Cohen &lt;jcohen@#064:forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.

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Kaiser Yang &lt;kaiseryang@#064:yahoo.com&gt; - Finding BigInteger loop problem in prime generation.

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Justin Kolb &lt;jkolb@#064:pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser &lt;ralfhauser@#064:gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak &lt;M_Dvorak@#064:kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini &lt;Klaus@#064:cpqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.

Olivier Refalo &lt;Olivier_Refalo@#064:fpdl.com.br&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola &lt;mariusz.bandola@#064:cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein &lt;brien.oberstein@#064:transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUItl.
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Jonathan Edwards &lt;s34gull@064mac.com&gt; - initial support for reading multiple rings from a PGP key file.

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Gregor Leander &lt;gl@064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Bosselaers &lt;Antoon.Bosselaers@064esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.

Peter Sylvester &lt;Peter.Sylvester@064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

Doug &lt;ummmm@064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes &lt;fs taes@064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer &lt;wdittmer@064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKKeyPair to fix nullpointer exception.

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James Wright &lt;James_Wright@064harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStream.

Jim Ford &lt;jim@064muirford.com&gt; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.

Michael Hausler &lt;haeusler@064ponton-consulting.de&gt; - extra aliases for provider.

Sai Pullabhotla &lt;psai@064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller &lt;joseph@064digibweb.net.nz&gt; - addition of ZeroBytePadding.

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Jeroen van Vianen &lt;jeroen@064vanvianen.nl&gt; - the Signed and Encrypted mail example.

Jun Sun &lt;JSun@064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem &lt;pdukem@064 email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.

Filipe Silva &lt;filipe.silva@064wedoconsulting.com&gt; - patch to fix overead issue in BCPGInputStream.

Alpesh Parmar &lt;alps@064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().

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Nicola Scendoni &lt;ns sendoni@064babelps.it&gt; - patch to add sorting to CertPath validation.
Ville Skyttä &lt;ville.skytta@iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. Diffie-Hellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.

Bruce Gordon &lt;bruce.gordon@064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley &lt;miles.whiteley@064savvis.net&gt; - "223" fix for BCPGInputStream new packets.

Albert Moliner &lt;amilaner@064evintia.com&gt; - initial TSP implementation.

Carlos Lozano &lt;carlos@064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javi Delgadillo &lt;javirj@064jav.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala &lt;joni.hahkala@064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.egee.org"&gt;EGEE project&lt;/a&gt; for making the work available.

Rolf Schillinger &lt;rolf@064rir-wum.de&gt; - initial implementation of Attribute Certificate generation.

Sergey Bahtin &lt;Sergey_Bahtin@064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy &lt;Franck.Leroy@keynextis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.

Atsuhiko Yamamaka &lt;ymnk@064jcroft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.

Nickolay Bolshakov &lt;tyrex@064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.

Soren Hilmer &lt;soren.hilmer@064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.

Steve Mitchell &lt;mitchell@064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.

Dirk Eisner &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 78164-4 padding.

Julien Pasquier &lt;julienpasquier@064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKey Attribute parsing. Initial ContentHints class.

Matteo &lt;matartuso@064libero.it&gt; - sequence patch to ASN1Dump.

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Pavel Vassiliev &lt;paulvas@064gmail.com&gt; - Initial GOST28147 Mac implementation.

Tom Pesman &lt;tom@064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.

Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.

Arndt Hasch &lt;Arndt.Hasch@064maxence.de&gt; - additional fix for partial reading with new style PGP packets.

Fix Bernd (KCDP 11) &lt;bernd.fix@064credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.
David M. Lee &lt;dmlee@Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.

Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.

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Joel Rees &lt;rees@064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.

Francesc Sau &lt;francesc.sau@064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.

Larry Bugbee &lt;bugbee@064mac.com&gt; - initial ECNR implementation.

Remi Blancher &lt;Remi.Blancher@064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.

Brian O'Rourke &lt;bianorourke@064gmail.com&gt; - patch for signature creation time override in OpenPGP.

Andreas Schwier &lt;andreas.schwier@064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.

David Josse &lt;David.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@064hi-ko.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinat, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a&gt; - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.

J&ouml;rg Eichhorn &lt;eichhorn@064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.

Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

Support for surrogate pairs in DERUTF8String, DER UT8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design. CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.
Carlos Lozano Ruiz &lt;carlos@064tradise.com&gt; - patch for &amp;lt;ctrl&amp;gt;&amp;lt;m&amp;gt; only handling in CRLFOutputStream.</li>
<li>John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>
<li>Stefan Neusatz Guilhen &lt;stneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>
<li>Marzio Lo Giudice &lt;marzio.loggiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.</li>
<li>Georg Lippold &lt;georg.lippold@064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>
<li>Chris Viles &lt;chris_viles@064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>
<li>Pasi Eronen &lt;Pasi.Eronen@nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>
<li>Maria Ivanova &lt;m.ivanova@064gmail.com&gt; - support for tags &gt; 30 in ASN.1 parsing.</li>
<li>Armin H&uuml;berling &lt;arminha@student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>
<li>Marius Schilder &lt;mschilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>
<li>Xavier Le Vouch &lt;xavier@064britannysoftware.com&gt; - general code clean ups.</li>
<li>Erik Tews &lt;e_tews@064dcedc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.</li>
<li>Thomas Dixon &lt;reikomusha@064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
<li>Frank Cornelis &lt;info@064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.</li>
<li>Rui Joaquim &lt;rjoaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
<li>David Stacey &lt;DStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
<li>Martijn Brinkers &lt;list@064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
<li>Julius Davies &lt;juliusdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.</li>
<li>Matthias &lt;g@064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
<li>Olga K&auml;thler &lt;olga.kaethler@064hp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
<li>Germano Rizzo &lt;germano.rizzo@064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
<li>N&uuml;ria Mar&iacute; &lt;numaa@hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
<li>Janis Schuller &lt;js@064ti.de&gt; - addition of NotationData packets for OpenPGP.</li>
<li>Michael Samblanet &lt;mike@064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
<li>Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.
Ramon Keller &lt;ramon.keller@#064gm.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark@#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;tpkonnopp@#064ntg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozd &lt;gwozdzjitu@#064rpg.pl&gt; - addition of getTsa() to TimestampTokenInfo.

Bartosz Malkowski &lt;bmalkow@#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Ramon Keller &lt;ramon.keller@#064gm.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark@#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;tpkonnopp@#064ntg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozd &lt;gwozdzjitu@#064rpg.pl&gt; - addition of getTsa() to TimestampTokenInfo.

Bartosz Malkowski &lt;bmalkow@#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi@#064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko@#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn@#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.

Matthew Stevenson &lt;mavricknz@#064yahoo.com&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;gcontei@#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF’s.

Roelof Naude &lt;roelof.naude@#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck@#064signature.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd@#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale@#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest.

Michael Schoene &lt;michael@#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga &lt;ilarra@#064nlrode.com&gt; - fix to default partial packet generation in BCPGOutputStream.

Bob Kerns &lt;bob.kerns@#064ntts.co.jp&gt; - fix to hashCode for X509CertificateObject.

Stefan Meyer &lt;stefan.meyer@#064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore@#064allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai &lt;rui@#064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic@#064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;topbe79@#064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bouncycastle_pfitz@#064fitzpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson &lt;k.henrik.andersson@#064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

Cagdas Cirit &lt;cagdascirit@#064gmail.com&gt; - subjectAlternativeName fix for x509CertStoreSelector.
Harakiri &lt;harakiri_23@yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.

Pedro Henriques &lt;pmahenriques@yahoo.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kinnermger &lt;job@064kimmeringer.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.

Richard Farr &lt;rfarr.se@064gmail.com&gt; initial SRP-6a implementation.

Thomas Castiglione &lt;castiglione@064fau.ibm.com&gt; patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;eromani@064sogei.it&gt; patch for recognising multiple counter signatures.

Robin Lundgren &lt;rt737lundgren@064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec &lt;mormegil@064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a@064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hsrawat@064yahoo.com&gt; fix for BERConstructedOctetString.

Rolf Lindemann &lt;rolf.lindemann@064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home@064gmail.com&gt; name look up patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons@064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.

Chris Cole &lt;chris_hCole@064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tom Krivanek &lt;tom@064attack.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;enfau@064it-online.de&gt; correction of field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor@064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.

Markus Kilaringer &lt;markus@064primekey.se&gt; several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darianis@064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith@064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.

Andrea Zilio &lt;andrea.zilio@insiel.it&gt; contributions to CMS time stamp classes.

Giacomo Boccardo &lt;gboccardo@unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.
<li>Arnis Tartu &lt;arnis#ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
<li>Janusz Sikociski &lt;J.Sikocinski#gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>
<li>Juri Hudolejev &lt;jhudolejev#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>
<li>Liane Velten &lt;liane.velten#064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>
<li>Shawn Willden &lt;swillden#064google.com&gt; additional functionality to PGPKKeyRing.</li>
<li>Atanas Krachev &lt;akrachev#064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>
<li>Tim Buktu &lt;tbuktu#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>
<li>Bernd &lt;rbernd#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>
<li>Steing Inge Morisbak &lt;stein.inge.morisbak#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>
<li>Andreas Schmid &lt;andreas.schmid#064tngtech.com&gt; Additional expiry time check in PGPPublicKeys.</li>
<li>Phil Steitz &lt;phil.steitz#064gmail.com&gt; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
<li>Petar Petrov &lt;p.petrov#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.</li>
<li>Daniel Fitzpatrick &lt;daniel.f.nwr#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
<li>Andy Neilson &lt;Andy.Neilson#quest.com&gt; a further patches to deal with multiple providers and PEMReader.</li>
<li>Ted Shaw &lt;xiao.xj#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
<li>Eleriseth &lt;Eleriseth#WPECGLtYbVi8Rl6Y7Vzl2Lv2EUUVW99v3yNV3IWROG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
<li>Kenny Root &lt;kenny#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
<li>Maarten Bodewes &lt;maarten.bodewes#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
<li>Philip Clay &lt;phil_b#064yahoo.com&gt; Initial implementation of J-PAKE.</li>
<li>Brian Carlstrom &lt;bdc#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
<li>Samuel Lid&eacute;n Borell &lt;samuel#primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.</li>
<li>Sergio Demian Lerner &lt;sergiolerner#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.</li>
<li>Tim Whittington &lt;Tim.Whittington#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes.
cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad@primekey.se&gt; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for timestamp token generation.

Andrey Zhoshin &lt;zhoshin@064xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tinnov &lt;t5555d@064gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatredyy@064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes@064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev@064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome@064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;matti.aarnio@064metrics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.

Andrey Zhozhin &lt;zhozhin@xrm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;t5555d@064gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatredyy@064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes@064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniele Hirscher &lt;dev@064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Eric M&amp;uuml;ller &lt;eric.mueller@064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts@064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov@064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso86@064gmail.com&gt; contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;cindrhc@064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis@064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb@064riseup.net&gt; initial implementation of Shacal2.

Roberto Tyley &lt;rt@064sage.de&gt; further work on completing gradle build.

Waldemar Dick &lt;wdick@064devmue.de&gt; code improvement in x500 ASN.1 package.

Sid Steward &lt;sid.steward@064pdflabs.com&gt; code improvements to ASN1Boolean.

Alex Klyubin &lt;klyubin@064google.com&gt; AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;gsoc.student@064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreas.reiter@064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller@064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli@064arago.de&gt; Additional support for BSI plain ECDSA in the provider.

Daniel Heldt &lt;Daniel.Heldt@064cryptovision.com&gt; Initial support for encodable state message digests.

Robert Bushman &lt;bouncycastle@064traxel.com&gt; Clean up of DirectKeySignature example.

Maurice Aarts &lt;maarts@064rissecure.com&gt; updated to KDF generator to follow NIST SP 800-108.
Franziskus Kiefer &lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.
KB Sriram &lt;mail_kb@064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.
Marco Schulze &lt;marco@064nightlabs.de&gt; Reported verification bug in GenericSigner.
Martin Schaeff &lt;https://github.com/martinschaeff&gt; contributed a code-cleanup patch.
dstutz &lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.
Tobias Wich &lt;toobias.wich@064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.
Hauke Mehrtens &lt;mailto:hauke@064hauke-m.de&gt; TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.
Daniel Zimmerman &lt;mailto:dmz@064galois.com&gt; Further key quality improvements to RSKeyPairGenerator.
Jens Kapitza &lt;j@kapitza-064schwarz-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.
Johan Eklund &lt;johan@064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.
nikosn &lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.
Axel von dem Bruch &lt;mailto:axel-vdb@064riseup.net&gt; Contributions to BCrypt/OpenBSDCrypt, original version of Blake2bDigest.
Derek Atkins &lt;mailto:derek@064htfp.com&gt; Documentation fixes to X9ObjectIdentifiers.
Peter Jr Halicky &lt;mailto:p064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.
lartiguePierre &lt;mailto:lartiguePierre@github.com&gt; Fix for counter signature SID in CMSSignedData.
Thomas Belot &lt;mailto:thomas.belot@BC@064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.
Rich DiCroce &lt;mailto:rdicroce@github.com&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.
Bjouml;rn Kautler &lt;mailto:bjouml;rn@vampire.com&gt; Refinements to cert path validation (authority key addition, certificate order preservation).
Dominik Sch&amp;uuml;rmann &lt;mailto:denschuermann@github.com&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in GPGSrectKey, constants for GNU protection modes in S2K classes, optional version header for armored output.
Michael &lt;mailto:MSKNete@064web.de&gt; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.
Tobias Wagner &lt;mailto:tobias.wagner@064n-design.de&gt; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].
Sergio Giro &lt;mailto:s@064google.com&gt; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it. 
bschuette &lt;mailto:bschuette@github.com&gt; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.
Leonard Dallot &lt;mailto:lallotTazTag@github.com&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.
Jan Willem Janssen &lt;mailto:j.w.janssen@bouncycastle@064xtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.
Sebastian Oerding &lt;mailto:sebastian.oerding@robotron.de&gt; Fixes to toString() in x509.CertificatePolicies.
Kai Kramer &lt;mailto:kai.kramer@064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12
KeyStore.

- Benoit Charles &lt;benoit.charles@opentrust.com&gt; Fix for IES data length check on decryption.
- Niko &lt;nfink@#064gmail.com&gt; fix to cast issue in getOutputStream() for ECIES.
- akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDigest copy constructor, blake2b reset issue for variant keys.
- Matthias Edelhoff &lt;Matthias.Edelhoff@#064cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.
- Lukasz Deputat &lt;lukasz.deputat@#064gmail.com&gt; Fixed bugs in TLsUtils read methods [#BJA-592].
- Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGObjectFactory to handle stream packets at start of iterated data.
- Andr&eacute;eacutee; Berengu&egrave; &lt;https://github.com/aberenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.
- Slawomir Jaranowski &lt;https://github.com/slaokejaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.
- Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.
- William Glanton &lt;wglanton77@#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].
- jdvorak001 &lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.
- Joseph Naegle &lt;jnaegle@#064gieriware.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.
- The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.
- Gorka Irazoqui &lt;girazoki@wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.
- Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com&gt; patch to deal with hardcoded boolean in EAC ECDSA public key.
- Alexandr Krivoshto &lt;wipe@#064ya.ru&gt; N4 calculation fix to GOFB mode.
- Artem Storozhuk &lt;storozhuk72@#064gmail.com&gt; N4 calculation fix to GOFB mode.
- Na Yu &lt;na.yu@#064samsung.com&gt; Constructor patches to CMC PKIData.
- Evangelos Karatsiolis &lt;ekaratsiolis@#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.
- VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.
- Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.
- Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for EC-GOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.
- Artem Storozhuk &lt;storozhuk72@#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.
- Andreas Glaser &lt;andreas.glaser@#064gi.de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.
<li>codeborne &lt;https://github.com/cbxp&gt; patch to correct OIDs used in public key digest parameters for EC-GOST-2012.</li>
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>
<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.</li>
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s</li>
<li>Scott Woodward &lt;https://github.com/#064bit3consulting&gt; performance fixes for CTRSP800DRBG.</li>
<li>David Straw &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPNT bounds checking.</li>
<li>chris mccown &lt;https://github.com/0xchrismccown&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().</li>
<li>Armin Lunkeit, Michael Tautenhahn &lt;https://github.com/Akretsch&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
<li>Scott Woodward &lt;https://github.com/#064bit3consulting&gt; performance fixes for CTRSP800DRBG.</li>
<li>Paul Schaub &lt;https://github.com/vanitasvitae&gt; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BePublicKeyDataDecryptorFactory. Additional tests on PGP key generation.</li>
<li>Nick of Nexxar &lt;https://github.com/nros&gt; updates to OpenPGP package to handle a broader range of EC curves.</li>
<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>
<li>fgrieu &lt;fgrieu#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSAEngine.</li>
<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertfiedKeyPair.</li>
<li>Andreas Gadermaier &lt;https://github.com/gadermaier&gt; initial version of Argon2 PBKDF algorithm.</li>
<li>Tony Washer &lt;https://github.com/tony.washer&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTD, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>
<li>Vincent Bouckaert &lt;https://github.com/veebbe&gt; initial version of RFC 4998 ASN.1 classes.</li>
<li>Tony Washer &lt;https://github.com/tony.washer&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>
<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>
<li>Gabriel Stoka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>
<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.
<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>
<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.</li>
<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.</li>
<li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.</li>
<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>
<li>Moses Palm &lt;https://github.com/mosespalm&gt; TrueSec &lt;Henrik.Palmer#064truesec.se&gt; Additional improvements to constant time comparisons.</li>
<li>Ren&eacute;&lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>
<li>THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.</li>
<li>Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.</li>
<li>gaellalire &lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.</li>
<li>Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
<li>THausherr &lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.</li>
<li>Gaylor Bosson &lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.</li>
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<li>Nick hitchan &lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
<li>dbusche &lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>
<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
<li>Tobias Ospelt &lt;tobias#064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>
</ul>

1.393 json-c 0.11-4.el7_0

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1.394 libpcap 1.5.3-11.el7

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1.395 pygobject 3.22.0-1.el7_4.1

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

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

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

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1.406 perl-plrpc 0.2020-14.el7
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From 29f5ad4805a04e4c4fd18795f17153798c80a46ce Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=20P=C3=8Di=C5=99?= <ppisar@redhat.com>
Date: Mon, 18 Nov 2013 12:20:52 +0100
Subject: [PATCH] Security notice on Storable and reply attack
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

Signed-off-by: Petr Psá <ppisar@redhat.com>
---
README | 16 +++++++++++++++++++
lib/RPC/PlServer.pm | 15 +++++++++++++++++++
2 files changed, 31 insertions(+)

diff --git a/README b/README
index 8a68657..48a33e4 100644
--- a/README
+++ b/README
@@ -204,6 +204,7 @@ EXAMPLE
 require RPC::PlServer;
 require MD5;
package MD5_Server;  # Clients need to request application
    # "MD5_Server"

@@ -245,6 +246,10 @@ SECURITY
    that I missed something. Security was a design goal, but not *the*
    design goal. (A well known problem ...)

+ Due to implementation of PlRPC, it's hard to use internal authentication
+ mechanisms properly to achieve secured remote calls. Therefore users are
+ advised to use an external authentication mechanism like TLS or IPsec.
+ I highly recommend the following design principles:

Protection against "trusted" users
@@ -263,6 +268,14 @@ SECURITY
    Be restrictive
        Think twice, before you give a client access to a method.

+ Use of Storable
+ Storable module used for serialization and deserialization
+ underneath is inherently insecure. Deserialized data can contain
+ objects which lead to loading foreign modules and executing possible
+ attached destructors. Do not accept host-based unauthorized
+ connections. The Storable module is exercised before checking user
+ password.
+ perlsec
    And just in case I forgot it: Read the "perlsec" man page. :-)

@@ -283,6 +296,9 @@ SECURITY
    authorized, you should switch to a user based key. See the
    DBI::ProxyServer for an example.

+ Please note PlRPC encryption does not protect from reply attacks.
+ You should have implement it on the application or the cipher level.
+ AUTHOR AND COPYRIGHT
    The PlRPC-modules are
Due to implementation of PlRPC, it's hard to use internal authentication mechanisms properly to achieve secured remote calls. Therefore users are advised to use an external authentication mechanism like TLS or IPsec.

I highly recommend the following design principles:

- Protection against "trusted" users
  @@ -637,6 +641,14 @@ object handle is valid before coercing a method on it.

  Think twice, before you give a client access to a method.

- Use of Storable
  + L<Storable> module used for serialization and deserialization underneath is inherently insecure. Deserialized data can contain objects which lead to loading foreign modules and executing possible attached destructors. Do not accept host-based unauthorized connections. The L<Storable> module is exercised before checking user password.
  +

- perlsec
  
  And just in case I forgot it: Read the C<perlsec> man page. :-)
  @@ -667,6 +679,9 @@ login phase, where to use a host based key. As soon as the user has authorized, you should switch to a user based key. See the DBI::ProxyServer for an example.

  Please note PlRPC encryption does not protect from reply attacks. You should have implement it on the application or the cipher level.
  +

=back

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1.8.3.1

1.407 hornetq-client 2.3.12.Final-redhat-1

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

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

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.417 kubernetes-client 4.13.0

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io.fabric8.kubernetes.client.URLFromIngressImpl
io.fabric8.kubernetes.client.URLFromNodePortImpl
io.fabric8.kubernetes.client.URLFromClusterIPImpl

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* /opt/cola/permits/1109740206_1606410916.85/0/kubernetes-client-4-13-0-sources-jar/io/fabric8/kubernetes/client/dsl/internal/serializationmixins/ObjectMetaMixIn.java
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io.fabric8.kubernetes.client.V1beta1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V2beta1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.SchedulingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1ApiextensionsAPIGroupExtensionAdapter

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1.418 binutils 2.27-44.base.el7

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.
Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.
The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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

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

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

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Preamble

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

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

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

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
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#STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

--------------------------------------------------------------------------
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#
src/bdf/bdf.c
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#
src/pcf/module.mk
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*/
Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
/*
*/
- Unix SMB/CIFS implementation.
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- trivial database library - private includes
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Theodore Ts'o
23-June-2007

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

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That's all there is to it!
This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

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

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#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image
real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

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

image:$(BSDLIB_LIB)

$(BSDLIB_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSDLIB_LIB) $(LDFLAGS_SHLIB) $(OBJ))
$(MV) pic/$(BSDLIB_LIB) .
$(RM) -f $(BSDLIB_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'" $(BSDLIB_LIB) $(BSDLIB_LIB))

install-shlibs install:: $(BSDLIB_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)"
@$(INSTALL_PROGRAM) $(BSDLIB_LIB) $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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THE BASIC LIBRARY FUNCTIONS

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

Written by: Philip Hazel
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Email domain: cam.ac.uk

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PCRE2 JUST-IN-TIME COMPILATION SUPPORT

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Written by: Zoltan Herczeg
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TinyXML is a simple, small, C++ XML parser that can be easily integrated into other programs.
In brief, TinyXML parses an XML document, and builds from that a Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create your own document markups. Where HTML does a very good job of marking documents for browsers, XML allows you to define any kind of document markup, for example a document that describes a "to do" list for an organizer application. XML is a very structured and convenient format. All those random file formats created to store application data can all be replaced with XML. One parser for everything.


There are different ways to access and interact with XML data. TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed into a C++ objects that can be browsed and manipulated, and then written to disk or another output stream. You can also construct an XML document from scratch with C++ objects and write this to disk or another output stream.

TinyXML is designed to be easy and fast to learn. It is two headers and four cpp files. Simply add these to your project and off you go.

There is an example file - xmltest.cpp - to get you started.

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TinyXML attempts to be a flexible parser, but with truly correct and compliant XML output. TinyXML should compile on any reasonably C++ compliant system. It does not rely on exceptions or RTTI. It can be compiled with or without STL support. TinyXML fully supports the UTF-8 encoding, and the first 64k character entities.

<h2>What it doesn't do.</h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs (eXtensible Stylesheet Language.) There are other parsers out there (check out www.sourceforge.org, search for XML) that are much more fully featured. But they are also much bigger, take longer to set up in your project, have a higher learning curve, and often have a more restrictive license. If you are working with browsers or have more
complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

@verbatim
<DOCTYPE Archiv [
<!ELEMENT Comment (#PCDATA)>
]>  
@endverbatim

because TinyXML sees this as a !DOCTYPE node with an illegally embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For the impatient, here is a tutorial to get you going. A great way to get started, but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find bugs, please file a bug report on the sourceforge web site (www.sourceforge.net/projects/tinymce). We'll get them straightened out as soon as possible.

There are some areas of improvement; please check sourceforge if you are interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

<ul>
<li> <b>TinyXPath</b> (http://tinyxpath.sourceforge.net). TinyXPath is a small footprint XPath syntax decoder, written in C++.</li>
<li> <b>TinyXML++</b> (http://code.google.com/p/ticpp/). TinyXML++ is a completely new interface to TinyXML that uses MANY of the C++ strengths. Templates, exceptions, and much better error handling.</li>
</ul>

<h2> Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML uses the std::string class, and fully supports std::istream, std::ostream,
operator«, and operator>>. Many API methods have both 'const char*' and 'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All the string classes are implemented by TinyXML itself. API methods all use the 'const char*' form for input.

Use the compile time #define:

TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler, or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment variable TINYXML_USE_STL=YES/NO will control STL compilation. In the Windows project file, STL and non STL targets are provided. In your project, It's probably easiest to add the line "#define TIXML_USE_STL" as the first line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing to manipulate XML files in any language. TinyXML also supports "legacy mode" - the encoding used before UTF-8 support and probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However, by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

<ol>
<li> If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf) begin the file or data stream, TinyXML will read it as UTF-8. </li>
<li> If the declaration tag is read, and it has an encoding="UTF-8", then TinyXML will read it as UTF-8. </li>
<li> If the declaration tag is read, and it has no encoding specified, then TinyXML will read it as UTF-8. </li>
<li> If the declaration tag is read, and it has an encoding="something else", then TinyXML will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's not clear what that mode does exactly, but old content should keep working. </li>
<li> Until one of the above criteria is met, TinyXML runs in Legacy Mode. </li>
</ol>

What happens if the encoding is incorrectly set or detected? TinyXML will try to read and pass through text seen as improperly encoded. You may get some strange results or mangled characters. You may want to force TinyXML to the correct mode.
You may force TinyXML to Legacy Mode by using `LoadFile(TIXML_ENCODING_LEGACY)` or `LoadFile(filename, TIXML_ENCODING_LEGACY)`. You may force it to use legacy mode all the time by setting `TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY`. Likewise, you may force it to `TIXML_ENCODING_UTF8` with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You don't need to be aware of UTF-8 or change your code in any way. You can think of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode! TinyXML does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time. It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding. Text encoded as SHIFT-JIS can not be read by TinyXML. A good text editor can import SHIFT-JIS and then save as UTF-8.

The `<a href="http://skew.org/xml/tutorial/">Skew.org link</a>` does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that Print() or printf() cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>
TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

@verbatim
&	&
&lt;	<
&gt;	>
&quot;	"
@endverbatim
These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

```xml
<verbatim>
Far & Away
@endverbatim
```

will have the Value() of "Far & Away" when queried from the TiXmlText object, and will be written back to the XML stream/file as an ampersand. Older versions of TinyXML "preserved" character entities, but the newer versions will translate them into characters.

Additionally, any character can be specified by its Unicode code point:
The syntax "\&#xA0;" or "\&#160;" are both to the non-breaking space character.

<h3>Printing</h3>

TinyXML can print output in several different ways that all have strengths and limitations.

- `Print( FILE* )`. Output to a std-C stream, which includes all C files as well as stdout.
  - "Pretty prints", but you don't have control over printing options.
  - The output is streamed directly to the FILE object, so there is no memory overhead in the TinyXML code.
  - used by `Print()` and `SaveFile()`

- operator<<. Output to a c++ stream.
  - Integrates with standard C++ iostreams.
  - Outputs in "network printing" mode without line breaks. Good for network transmission and moving XML between C++ objects, but hard for a human to read.

- TiXmlPrinter. Output to a std::string or memory buffer.
  - API is less concise
  - Future printing options will be put here.
  - Printing may change slightly in future versions as it is refined and expanded.

<h3>Streams</h3>

With `TIXML_USE_STL` on TinyXML supports C++ streams (operator <<,>>) streams as well as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:
- based on FILE*
- the Print() and SaveFile() methods

Generates formatted output, with plenty of white space, intended to be as human-readable as possible. They are very fast, and tolerant of ill formed XML documents. For example, an XML document that contains 2 root elements.
and 2 declarations, will still print.

C style input:
- based on FILE*
- the Parse() and LoadFile() methods

A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:
- based on std::ostream
- operator<<

Generates condensed output, intended for network transmission rather than readability. Depending on your system's implementation of the ostream class, these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML: a document should contain the correct one root element. Additional root level elements will not be streamed out.

C++ style input:
- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky part is knowing when the XML document is complete, since there will almost certainly be other data in the stream. TinyXML will assume the XML data is complete after it reads the root element. Put another way, documents that are ill-constructed with more than one root element will not read correctly. Also note that operator>> is somewhat slower than Parse, due to both implementation of the STL and limitations of TinyXML.

<h3> White space </h3>
The world simply does not agree on whether white space should be kept, or condensed. For example, pretend the '_' is a space, and look at "Hello____world". HTML, and at least some XML parsers, will interpret this as "Hello_world". They condense white space. Some XML parsers do not, and will leave it as "Hello____world". (Remember to keep pretending the _ is a space.) Others suggest that __Hello____world__ should become Hello___world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace( bool ) to set the desired behavior. The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace( bool ) before making any calls to Parse XML data, and I don't recommend changing it after it has been set.

<h3> Handles </h3>
Where browsing an XML document in a robust way, it is important to check for null returns from method calls. An error safe implementation can generate a lot of code like:

```verbatim
TiXmlElement* root = document.FirstChildElement( "Document" );
if ( root )
{
    TiXmlElement* element = root->FirstChildElement( "Element" );
    if ( element )
    {
        TiXmlElement* child = element->FirstChildElement( "Child" );
        if ( child )
        {
            TiXmlElement* child2 = child->NextSiblingElement( "Child" );
            if ( child2 )
            {
                // Finally do something useful.
            }
        }
    }
}
@endverbatim
```

Handles have been introduced to clean this up. Using the TiXmlHandle class, the previous code reduces to:

```verbatim
TiXmlHandle docHandle( &document );
if ( child2 )
{
    // do something useful
}@endverbatim
```

Which is much easier to deal with. See TiXmlHandle for more information.

### Row and Column tracking

Being able to track nodes and attributes back to their origin location in source files can be very important for some applications. Additionally, knowing where parsing errors occured in the original source can be very time saving.

TinyXML can tracks the row and column origin of all nodes and attributes in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return the origin of the node in the source text. The correct tabs can be configured in TiXmlDocument::SetTabSize().
To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided. Simply compile and run. It will write the file demotest.xml to your disk and generate output on the screen. It also tests walking the DOM by printing out the number of nodes found using different techniques.

The Linux makefile is very generic and runs on many systems - it is currently tested on mingw and MacOSX. You do not need to run 'make depend'. The dependecies have been hard coded.

Windows project file for VC6
<ul>
<li>tinyxml: tinyxml library, non-STL</li>
<li>tinyxmlSTL: tinyxml library, STL</li>
<li>tinyXmlTest: test app, non-STL</li>
<li>tinyXmlTestSTL: test app, STL</li>
</ul>

Makefile
At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in the makefile.

In the tinyxml directory, type "make clean" then "make". The executable file 'xmltest' will be created.

To Use in an Application:

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your project or make file. That's it! It should compile on any reasonably compliant C++ system. You do not need to enable exceptions or RTTI for TinyXML.

How TinyXML works.

An example is probably the best way to go. Take:
@verbatim
<?xml version="1.0" standalone="no">
<!-- Our to do list data -->
@endverbatim
<ToDo>
<Item priority="1"> Go to the <bold>Toy store!</bold></Item>
<Item priority="2"> Do bills</Item>
</ToDo>
@endverbatim

It's not much of a To Do list, but it will do. To read this file (say "demo.xml") you would create a document, and parse it in:

```cpp
@verbatim
TiXmlDocument doc( "demo.xml" );
doc.LoadFile();
@endverbatim
```

And its ready to go. Now lets look at some lines and how they relate to the DOM.

```cpp
<?xml version="1.0" standalone="no">
@endverbatim
```

The first line is a declaration, and gets turned into the TiXmlDeclaration class. It will be the first child of the document node.

This is the only directive/special tag parsed by TinyXML. Generally directive tags are stored in TiXmlUnknown so the commands wont be lost when it is saved back to disk.

```cpp
<!-- Our to do list data -->
@endverbatim
```

A comment. Will become a TiXmlComment object.

```cpp
<?xml version="1.0" standalone="no">
@endverbatim
```

The "ToDo" tag defines a TiXmlElement object. This one does not have any attributes, but does contain 2 other elements.

```cpp
<Item priority="1">
@endverbatim
```

Creates another TiXmlElement which is a child of the "ToDo" element. This element has 1 attribute, with the name "priority" and the value "1".
A TiXmlText. This is a leaf node and cannot contain other nodes. It is a child of the "Item" TiXmlElement.

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:

```
@verbatim
TiXmlDocument "demo.xml"
TiXmlDeclaration "version='1.0'
standalone=no"
TiXmlComment "Our to do list data"
TiXmlElement "ToDo"
TiXmlElement "Item" Attributes: priority = 1
TiXmlText "Go to the 
TiXmlElement "bold"
TiXmlText "Toy store!"
TiXmlElement "Item" Attributes: priority=2
TiXmlText "Do bills"
@endverbatim

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox' configuration file.

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<h2>References</h2>

The World Wide Web Consortium is the definitive standard body for XML, and their web pages contain huge amounts of information.


I also recommend "XML Pocket Reference" by Robert Eckstein and published by OReilly...the book that got the whole thing started.

<h2>Contributors, Contacts, and a Brief History</h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and encouragement. It all helps, and makes this project fun. A special thanks to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still in the documentation.) Lee reviews changes and releases new versions, with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you use TinyXML. Hopefully you will enjoy it and find it useful. Please post questions, comments, file bugs, or contact us at:

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Lee Thomason, Yves Berquin, Andrew Ellerton

*/

Found in path(s):
* /opt/cola/permits/1236311587_1638513419.87/0/tinyxml-2-6-2-1-tar-gz/tinyxml/readme.txt
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*/

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Found in path(s):
* /opt/cola/permits/1236311587_1638513419.87/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxml.cpp
* /opt/cola/permits/1236311587_1638513419.87/0/tinyxml-2-6-2-1-tar-gz/tinyxml/tinyxml.h

1.448 gnome-session 3.28.1-7.el7

1.448.1 Available under license:

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1.459 biosdevname 0.7.3-2.el7

1.459.1 Available under license:

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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# Contributions to the urllib3 project

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRiBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
  * Bugfixes, Improvements and Test coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

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  * Design review, bugfixes, test coverage.

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  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

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  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
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  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <https://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

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  * Add missing WrappedSocket.fileno method in PyOpenSSL

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  * Fixed a race condition

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  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

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  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HttpHeadersDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation

* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration
* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
  * App Engine environment tests.
  * Documentation re-write.

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  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
  * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
  * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
  * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
  * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
  * Logging efficiency improvements, spelling fixes, Travis config.
* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in `stream` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
  * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
  * Update appveyor tox setup to use the 64bit python.

* Akamai (through Jess Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
  * Minor fixes in the test suite

* Will Bond <will@wbond.net>
  * Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
  * using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
  * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
  * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
  * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
* Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

1.464 jboss-modules 1.3.0.Final-redhat-2

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1.466 gnu-crypto 2.0.1

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1.468 flyway-commandline 1.1

1.469 yajl 2.0.4-4.el7

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2006-Jan-27

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
SOpenLDAP: pkg/ldap/libraries/libutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ / 
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jar/io/vertx/ext/web/handler/impl/ResponseContentTypeHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-
jar/io/vertx/ext/web/handler/ResponseContentTypeHandler.java
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* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/XhrTransport.java
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* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/impl/JsonPTransport.java

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* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/DigestAuthHandlerImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/sstore/impl/LocalSessionStoreImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/impl/UserHolder.java
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* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/BridgeEvent.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/SessionHandler.java
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* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/LoggerHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/impl/RouterImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/UserSessionHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/sockjs/SockJSBridgeOptions.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/impl/FileUploadImpl.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/AuthHandler.java
* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/handler/ChainAuthHandler.java
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* /opt/cola/permits/1101064165_1603114191.51/0/vertx-web-3-9-4-sources-jar/io/vertx/ext/web/sstore/impl/ClusteredSessionStoreImpl.java
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<one line to give the program's name and a brief idea of what it does.>
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Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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1.480 bcel 6.5.0

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the source code distributed need not include anything that is normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
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b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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to distribute software through any other system and a licensee cannot
impose that choice.

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so that distribution is permitted only in or among countries not thus
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy. The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based
on the Program.

To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy. Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other
parties to make or receive copies. Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License. If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.
The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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3. Protecting Users' Legal Rights From Anti-Circumvention Law.
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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.493 prettyfaces-core 3.3.3

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1.495 keyutils 1.5.8-3.el7

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README for release 6b of 27-Mar-1998

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and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher,
Lee Crocker, Julian Mingguillon, Luis Ortiz, George Phillips, Davide Rossi,
Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG
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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
               rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log  Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.doc  How to use the JPEG library in your own programs.
example.c  Sample code for calling the JPEG library.
structure.doc  Overview of the JPEG library's internal structure.
filelist.doc  Road map of IJG files.
coderules.doc  Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the
resulting GIF files are larger than usual, but are readable by all standard
GIF decoders.

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REFERENCES
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We highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30–44.
(Adjacent articles in that issue discuss MPEG motion picture compression,
applications of JPEG, and related topics.) If you don't have the CACM issue
handy, a PostScript file containing a revised version of Wallace's article is
available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually
a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections
and some added material. Note: the Wallace article is copyright ACM and IEEE,
and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in
"The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by
good explanations and example C code for a multitude of compression methods
including JPEG. It is an excellent source if you are comfortable reading C
code but don't know much about data compression in general. The book's JPEG
sample code is far from industrial-strength, but when you are ready to look
at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data
Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published
The book includes the complete text of the ISO JPEG standards (DIS 10918-1
and draft DIS 10918-2). This is by far the most complete exposition of JPEG
in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a
paper copy through ISO or ITU. (Unless you feel a need to own a certified
official copy, we recommend buying the Pennebaker and Mitchell book instead;
it's much cheaper and includes a great deal of useful explanatory material.)
In the USA, copies of the standard may be ordered from ANSI Sales at (212)
642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging $95 for Part 1 and $47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314
A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS
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The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have
direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE
================

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/.
Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)
FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file
As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.501 libaio 0.3.110-5ubuntu0.1
1.501.1 Available under license:

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.517 libxrandr 1.5.1 2.el7

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  jar/org/springframework/scheduling/quartz/LocalTaskExecutorThreadPool.java
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  jar/org/springframework/mail/javamail/JavaMailSender.java
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image/x-png

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image/ief

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image/jpeg

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image/rgb

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image/g3fax

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image/x-xwindowdump

# Macintosh PICT format
image/x-pict

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image/x-portable-pixmap

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image/x-portable-anymap

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image/x-ms-bmp

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image/x-cmu-raster

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image/x-photo-cdp

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image/cgm

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image/x-calsmil

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image/fif

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# AUDIO/VOICE/MUSIC RELATED TYPES

# ""basic"" audio - 8-bit u-law PCM
audio/basic snd

# Macintosh audio format (AIpple)
audio/x-aiff aiff aifc

# Microsoft audio
audio/x-wav wav

# MPEG audio
audio/x-mpeg mpeg mp mpe

# MPEG-2 audio
audio/x-mpeg-2mp2a mpeg2

# compressed speech (Echo Speech Corp.)
audio/echospeech

# Toolvox speech audio (Voxware)
audio/voxwarevox

# Rapid Transit compressed audio (Fast Man)
application/fastmanlcc

# Realaudio (Progressive Networks)
application/x-pn-realaudio ram

# MIDI music data
x-music/x-midi

# Koan music data (SSeyo)
application/vnd.koan

# Speech synthesis data (MVP Solutions)
text/x-speech talk

# VIDEO TYPES

# MPEG video
video/mpeg mpeg mpg mpe

# MPEG-2 video
video/mpeg-2mpv2 mpv2

# Macintosh Quicktime
video/quicktimeqt mov

# Microsoft video
video/x-msvideo avi

# SGI Movie format
video/x-sgi-movie

# VDOlive streaming video (VDOnet)
video/vndvdo

# Vivo streaming video (Vivo software)
# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig
# Netscape Cooltalk chat data (Netscape)
application/x-cooltalk

# TEXT-RELATED

# PostScript
application/postscript
# Microsoft Rich Text Format
application/rtf
# Adobe Acrobat PDF
application/pdf
# Maker Interchange Format (FrameMaker)
application/vnd.mif
# Troff document
application/x-troff
# Troff document with MAN macros
application/x-troff-man
# Troff document with ME macros
application/x-troff-me
# Troff document with MS macros
application/x-troff-ms
# LaTeX document
application/x-latex
# Tex/LateX document
application/x-tex
# GNU TexInfo document
application/x-texinfo
# TeX dvi format
application/x-dvi
# MS word document
application/msword
# Office Document Architecture
application/oda
# Envoy Document
application/envoy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
# 4.3BSD tar format
application/x-tar
# POSIX tar format
application/x-ustar
# Old CPIO format
application/x-cpio
# POSIX CPIO format
application/x-cpio
# UNIX sh shell archive
application/x-shar
# DOS/PC - Pkzipped archive
application/zip
# Macintosh Binhexed archive
application/mac-binhex40
# Macintosh Stuffit Archive
application/x-stuffit
# Fractal Image Format
application/fractals
# "Binary UUencoded"
application/octet-stream
# PC executable
application/octet-stream
# "WAIS ""source"
application/x-wais-source
# NCSA HDF data format
application/hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

text/javascript
# Javascript program
text/javascript js mocha
# UNIX bourne shell program
application/x-sh
# UNIX c-shell program
application/x-csh
# Perl program
application/x-perl
# Tcl (Tool Control Language) program
application/x-tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash
# mBED multimedia data (mBED)
application/mbed
t# PowerMedia multimedia (RadMedia)
application/x-rad-powermedia

# PRESENTATION
# PowerPoint presentation (Microsoft)
application/mspowerpointppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asapasp
# Astound Web Player multimedia data (GoldDisk)
application/astoundasn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs
# OLE Object (Microsoft/NCompass)
application/x-oleobjectods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp
# Visual Basic objects (Amara)
application/x-webbasicwba
# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com
# Pointcast news data (Pointcast)
application/x-pcnpcn
# Excel spreadsheet (Microsoft)
application/vnd.ms-excelxls
# PowerPoint (Microsoft)
application/vnd.ms-powerpointppt
# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp
# SourceView document (Dataware Electronics)
application/vnd.svdsvd
# Net Install - software install (20/20 Software)
application/x-net-installins
# Carbon Copy - remote control/access (Microcom)
application/ccvccv
# Spreadsheets (Visual Components)
workbook/formulaonevts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlwrl vrml
# WIRL - VRML data (VREAM)
x-world/x-vreamvrw

# Play3D 3d scene data (Play3D)
application/x-p3dp3d

# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsvr

# WebActive 3d data (Plastic Thought)
x-world/x-wvrvvr

# QuickDraw3D scene data (Apple)
x-world/x-3dmf3dmf

# SCIENTIFIC/MATH/CAD TYPES

# Mathematica notebook
application/mathematica

# Computational meshes for numerical simulations
x-model/x-meshmsh

# Vis5D 5-dimensional data
application/vis5dv5d

# IGES models -- CAD/CAM (CGM) data
application/igesigs

# Autocad WHIP vector drawings
drawing/x-dwfdwf

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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/mail/javamail/mime.types

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* /opt/cola/permits/1136652480_1613848922.68/0/spring-context-support-3-0-7-release-sources-3-
jar/org/springframework/mail/SimpleMailMessage.java
1.523 mokutil 15-1.el7
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1.527 systemd 219-78.el7_9.3

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Found in path(s):
* /opt/cola/permits/1135855272_1613616272.74/0/perl-constant-1.27-2.el7-1.src.rpm-cosi-expand-archive-eRwAgL5p/perl-constant.spec
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl pragma to declare constants'
author:
  - ‘SÃ©bastien Aperghis-Tramoni <sebastien@aperghis.net>’
build_requires:
  Test::More: 0
configure_requires:
  Module::Build: 0.2808
dynamic_config: 1
generated_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: constant
provides:
  constant:
    file: lib/constant.pm
    version: 1.27
resources:
  license: http://dev.perl.org/licenses/
  version: 1.27

Found in path(s):
* /opt/cola/permits/1135855272_1613616272.74/0/perl-constant-1.27-2.el7-1.src.rpm-cosi-expand-archive-eRwAgL5p/constant-1.27.tar.gz-cosi-expand-archive-B44A52uU/constant-1.27/META.yml
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=head1 NAME
constant - Perl pragma to declare constants

=head1 SYNOPSIS

use constant PI => 4 * atan2(1, 1);
use constant DEBUG => 0;

print "Pi equals ", PI, "...\n" if DEBUG;
use constant {
    SEC   => 0,
    MIN   => 1,
    HOUR  => 2,
    MDAY  => 3,
    MON   => 4,
    YEAR  => 5,
    WDAY  => 6,
    YDAY  => 7,
    ISDST => 8,
};

use constant WEEKDAYS => qw(
    Sunday Monday Tuesday Wednesday Thursday Friday Saturday
);

print "Today is ", (WEEKDAYS)[ (localtime)[WDAY] ], ".\n";

=head1 DESCRIPTION

This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown
above, each machine your script runs upon can have as many digits
of accuracy as it can use. Also, your program will be easier to
read, more likely to be maintained (and maintained correctly), and
far less likely to send a space probe to the wrong planet because
nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its
value at compile time, and may then optimize the expression further.
In particular, any code in an C<if (CONSTANT)> block will be optimized
away if the constant is false.

=head1 NOTES

As with all C<use> directives, defining a constant happens at
compile time. Thus, it's probably not correct to put a constant
declaration inside of a conditional statement (like C<if ($foo)
{ use constant ... }>).

Constants defined using this module cannot be interpolated into
strings like variables. However, concatenation works just fine:

    print "Pi equals PI...
";        # WRONG: does not expand "PI"
    print "Pi equals ".PI."...\n";    # right
Even though a reference may be declared as a constant, the reference may point to data which may be changed, as this code shows.

```perl
use constant ARRAY => [ 1,2,3,4 ];
print ARRAY->[1];
ARRAY->[1] = " be changed";
print ARRAY->[1];
```

Dereferencing constant references incorrectly (such as using an array subscript on a constant hash reference, or vice versa) will be trapped at compile time.

Constants belong to the package they are defined in. To refer to a constant defined in another package, specify the full package name, as in `C<Some::Package::CONSTANT>`. Constants may be exported by modules, and may also be called as either class or instance methods, that is, as `C< Some::Package->CONSTANT >>` or as `C<< $obj->CONSTANT >>` where `C<$obj>` is an instance of `C<Some::Package>`. Subclasses may define their own constants to override those in their base class.

The use of all caps for constant names is merely a convention, although it is recommended in order to make constants stand out and to help avoid collisions with other barewords, keywords, and subroutine names. Constant names must begin with a letter or underscore. Names beginning with a double underscore are reserved. Some poor choices for names will generate warnings, if warnings are enabled at compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to `C<undef>` in scalar context. Note that constants with more than one value do `I<not>` return their last value in scalar context as one might expect. They currently return the number of values, but `B<this may change in the future>`. Do not use constants with multiple values in scalar context.

`B<NOTE:> This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:

```perl
use constant TIMESTAMP => localtime;  # WRONG!
use constant TIMESTAMP => scalar localtime;  # right
```

The first line above defines `C<TIMESTAMP>` as a 9-element list, as returned by `C<localtime()>` in list context. To set it to the string returned by `C<localtime()>` in scalar context, an explicit `C<scalar>` keyword is required.
List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

```perl
my @workdays = WEEKDAYS[1 .. 5];       # WRONG!
my @workdays = (WEEKDAYS)[1 .. 5];    # right
```

=head2 Defining multiple constants at once

Instead of writing multiple C<use constant> statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

```perl
use constant {
    FOO => "A single value",
    BAR => "This", "won't", "work!",       # Error!
};
```

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants, you cannot use the values of other constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until I<after> the C<use> statement is finished.

```perl
use constant {
    BITMASK => 0xAFBAEBA8,
    NEGMASK => ~BITMASK,               # Error!
};
```

=head2 Magic constants

Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren't totally portable, alas.)

```perl
use constant E2BIG => ($! = 7);
print E2BIG, "\n";           # something like "Arg list too long"
print 0+E2BIG, "\n";        # "7"
```

You can't produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.
=head1 TECHNICAL NOTES
In the current implementation, scalar constants are actually
inlinable subroutines. As of version 5.004 of Perl, the appropriate
scalar constant is inserted directly in place of some subroutine
calls, thereby saving the overhead of a subroutine call. See
L<perlsub/"Constant Functions"> for details about how and when this
happens.
In the rare case in which you need to discover at run time whether a
particular constant has been declared via this module, you may use
this function to examine the hash C<%constant::declared>. If the given
constant name does not include a package name, the current package is
used.
sub declared ($) {
use constant 1.01;
# don't omit this!
my $name = shift;
$name =~ s/^::/main::/;
my $pkg = caller;
my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
$constant::declared{$full_name};
}
=head1 CAVEATS
In the current version of Perl, list constants are not inlined
and some symbols may be redefined without generating a warning.
It is not possible to have a subroutine or a keyword with the same
name as a constant in the same package. This is probably a Good Thing.
A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT
ENV INC SIG> is not allowed anywhere but in package C<main::>, for
technical reasons.
Unlike constants in some languages, these cannot be overridden
on the command line or via environment variables.
You can get into trouble if you use constants in a context which
automatically quotes barewords (as is true for any subroutine call).
For example, you can't say C<$hash{CONSTANT}> because C<CONSTANT> will
be interpreted as a string. Use C<$hash{CONSTANT()}> or
C<$hash{+CONSTANT}> to prevent the bareword quoting mechanism from
kicking in. Similarly, since the C<< => >> operator quotes a bareword
immediately to its left, you have to say C<< CONSTANT() => 'value' >>
(or simply use a comma in place of the big arrow) instead of
C<< CONSTANT => 'value' >>.

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SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables via attribute

L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly
to lock/unlock keys and values)

BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

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The CPAN distribution is maintained by SE<eacute>bastien Aperghis-Tramoni
E<lt>F<sebastien@aperghis.net>E<gt>.

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NAME

constant - Perl pragma to declare constants
DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its value at compile time, and may then optimize the expression further. In particular, any code in an "if (CONSTANT)" block will be optimized away if the constant is false.

INSTALLATION

To install this module, run the following commands:

    perl Makefile.PL
    make
    make test
    make install

Alternatively, to install with Module::Build, you can use the following commands:

    perl Build.PL
    ./Build
    ./Build test
    ./Build install

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

    perldoc constant

You can also look for information at:

Search CPAN
    http://search.cpan.org/dist/constant

CPAN Request Tracker:
    http://rt.cpan.org/Dist/Display.html?Name=constant

AnnoCPAN, annotated CPAN documentation:
    http://annocpan.org/dist/constant
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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.537 gnome-initial-setup 3.28.0-2.el7

1.537.1 Available under license:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<interface>
<!-- interface-requires gtk+ 3.0 -->
<template class="GisEulaPage" parent="GisPage">
  <property name="needs-accept">True</property>
  <child>
    <object class="GtkBox" id="box">
      <property name="visible">True</property>
      <property name="orientation">vertical</property>
      <property name="can_focus">False</property>
      <property name="halign">fill</property>
      <property name="margin_left">80</property>
      <property name="margin_right">80</property>
      <child>
        <object class="GtkLabel" id="title">
          <property name="visible">True</property>
          <property name="can_focus">False</property>
          <property name="halign">center</property>
          <property name="valign">start</property>
          <property name="margin_bottom">18</property>
          <property name="label" translatable="yes">License Agreements</property>
          <attributes>
            <attribute name="weight" value="bold"/>
            <attribute name="scale" value="1.6"/>
          </attributes>
        </object>
      </child>
      <child>
        <object class="GtkScrolledWindow" id="scrolled_window">
          <property name="visible">True</property>
          <property name="can_focus">False</property>
          <property name="halign">fill</property>
          <property name="margin_left">80</property>
          <property name="margin_right">80</property>
        </object>
      </child>
    </object>
  </child>
</template>
</interface>
```
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.551 perl-compress-raw-zlib 2.061-4.el7

1.551.1 Available under license :
No license file was found, but licenses were detected in source scan.

=back

=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0 all tests successful
255 test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.
B<NOTE>  This behavior may go away in future versions.

=head1 CAVEATS and NOTES

=over 4

=item Backwards compatibility

Test::More works with Perls as old as 5.004_05.

=item Overloaded objects

String overloaded objects are compared B<as strings>.  This prevents Test::More from piercing an object's interface allowing better blackbox testing.  So if a function starts returning overloaded objects instead of bare strings your tests won't notice the difference.  This is good.

However, it does mean that functions like is_deeply() cannot be used to test the internals of string overloaded objects.  In this case I would suggest Test::Deep which contains more flexible testing functions for complex data structures.

=item Threads

Test::More will only be aware of threads if "use threads" has been done I<before> Test::More is loaded.  This is ok:

    use threads;
    use Test::More;

This may cause problems:

    use Test::More
    use threads;

=item Test::Harness upgrade

no_plan and todo depend on new Test::Harness features and fixes.  If you're going to distribute tests that use no_plan or todo your end-users will have to upgrade Test::Harness to the latest one on CPAN.  If you avoid no_plan and TODO tests, the stock Test::Harness will work fine.
Installing Test::More should also upgrade Test::Harness.

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't figure out how to easily wedge test names into Test's interface (along with a few other problems).

The goal here is to have a testing utility that's simple to learn, quick to use and difficult to trip yourself up with while still providing more flexibility than the existing Test.pm. As such, the names of the most common routines are kept tiny, special cases and magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write some tests. You can upgrade to Test::More later (it's forward compatible).

L<Test> is the old testing module. Its main benefit is that it has been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted by Perl.

L<Test::Differences> for more ways to test complex data structures. And it plays well with Test::More.

L<Test::Class> is like XUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Unit> is XUnit style testing.

L<Test::Inline> shows the idea of embedded testing.

L<Bundle::Test> installs a whole bunch of useful test modules.

=head1 AUTHORS
Michael G Schwern with much inspiration from Joshua Pritikin’s Test module and lots of help from Barrie Slaymaker, Tony Bowden, blackstar.co.uk, chromatic, Fergal Daly and the perl-qa gang.

=head1 BUGS

See F<http://rt.cpan.org> to report and view bugs.

=head1 COPYRIGHT


This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

=cut

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* inffast.h -- header to use inffast.c
 * Copyright (C) 1995-2003, 2010 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
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/* deflate.h -- internal compression state
 * Copyright (C) 1995-2012 Jean-loup Gailly
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
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/* zutil.c -- target dependent utility functions for the compression library
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):

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

=back

Test::Simple will start by printing number of tests run in the form "1..M" (so "1..5" means you're going to run 5 tests). This strange format lets Test::Harness know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Simple will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0 all tests successful
255 test died
    any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground its recommended you look at L<Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

    use Test::Simple tests => 5;
    use Film; # What you're testing.
my $btaste = Film->new({
    Title    => 'Bad Taste',
    Director => 'Peter Jackson',
    Rating   => 'R',
    NumExplodingSheep => 1
});
ok( defined($btaste) && ref $btaste eq 'Film', 'new() works' );
ok( $btaste->Title      eq 'Bad Taste', 'Title() get'    );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R', 'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1, 'NumExplodingSheep() get' );

It will produce output like this:

1..5
ok 1 - new() works
ok 2 - Title() get
ok 3 - Director() get
not ok 4 - Rating() get
#  Failed test (t/film.t at line 14)
ok 5 - NumExplodingSheep() get
# Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way, it works like this on VMS.

0  SS$NORMAL    all tests successful
4  SS$ABORT     something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004.
Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his kitchen one night about the problems I was having writing some really complicated feature into the new Testing module. He observed that the main problem is not dealing with these edge cases but that people hate to write tests at all. What was needed was a dead simple module that took all the hard work out of testing and was really, really easy to learn. Paul Johnson simultaneously had this idea (unfortunately, he wasn't in Tony's kitchen). This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions! Once you outgrow Test::Simple, look at Test::More. Test::Simple is 100% forward compatible with Test::More (i.e. you can just use Test::More instead of Test::Simple in your programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!

=item L<Test::Harness>

Interprets the output of your test program.

=back

=head1 AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.
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Compress-Raw-Zlib

Version 2.061

19th May 2013

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The directory zlib-src contains a subset of the source files copied directly from zlib version 1.2.8.

These files are Copyright(C) 1995-2012 Jean-loup Gailly and Mark Adler.

Full source for the zlib library is available at http://www.zlib.org

DESCRIPTION
This module provides a Perl interface to the zlib compression library.

PREREQUISITES
-------------

Before you can build Compress-Raw-Zlib you need to have the following installed on your system:

* A C compiler

* Perl 5.006 or better.

By default, Compress-Raw-Zlib will build its own private copy of the zlib library. If you want to use a different version of zlib, follow the instructions in the section called "Controlling the version of zlib used by Compress-Raw-Zlib" later in this document.

BUILDING THE MODULE
-------------------

Assuming you have met all the prerequisites, the module can now be built using this sequence of commands:

perl Makefile.PL
    make
    make test

INSTALLATION
------------

To install Compress-Raw-Zlib, run the command below:

    make install

Controlling the version of zlib used by Compress-Raw-Zlib
----------------------------------------------------------

Compress-Raw-Zlib interfaces to the zlib compression library. There are three options available to control which version/instance of the zlib library is used:

1. Build a private copy of the zlib library using the zlib library source that is included with this module.
   This is the default and recommended option.
2. Build a private copy of the zlib library using a standard zlib source distribution.

3. Use a pre-built zlib library.

Note that if you intend to use either Option 2 or 3, you need to have zlib version 1.2.0 or better.

The contents of the file config.in are used to control which of the three options is actually used. This file is read during the perl Makefile.PL step of the build, so remember to make any required changes to config.in before building this module.

Option 1
--------

For option 1, edit the file config.in and set the variables in it as follows:

```plaintext
BUILD_ZLIB   = True
INCLUDE      = ./zlib-src
LIB          = ./zlib-src
OLD_ZLIB     = False
GZIP_OS_CODE = AUTO_DETECT
```

Option 2
--------

For option 2, fetch a copy of the zlib source distribution from http://www.zlib.org and unpack it into the Compress-Raw-Zlib source directory. Assuming you have fetched zlib 1.2.8, it will create a directory called zlib-1.2.8.

Now set the variables in the file config.in as follows (if the version you have fetched isn't 1.2.8, change the INCLUDE and LIB variables appropriately):

```plaintext
BUILD_ZLIB   = True
INCLUDE      = ./zlib-1.2.8
LIB          = ./zlib-1.2.8
OLD_ZLIB     = False
GZIP_OS_CODE = AUTO_DETECT
```
Option 3
--------

For option 3, you need to find out where zlib is stored on your system. There are two parts to this.

First, find the directory where the zlib library is stored (some common names for the library are libz.a and libz.so). Set the LIB variable in the config.in file to that directory.

Secondly, find the directory where the file zlib.h is stored. Now set the INCLUDE variable in the config.in file to that directory.

Next set BUILD_ZLIB to False.

Finally, if you are running zlib 1.0.5 or older, set the OLD_ZLIB variable to True. Otherwise set it to False.

As an example, if the zlib library on your system is in /usr/local/lib, zlib.h is in /usr/local/include and zlib is more recent than version 1.0.5, the variables in config.in should be set as follows:

```
BUILD_ZLIB   = False
INCLUDE      = /usr/local/include
LIB          = /usr/local/lib
OLD_ZLIB     = False
GZIP_OS_CODE = AUTO_DETECT
```

Setting the Gzip OS Code
-----------------------

Every gzip stream stores a byte in its header to identify the Operating System that was used to create the gzip stream. When you build Compress-Raw-Zlib it will attempt to determine the value that is correct for your Operating System. This will then be used by IO::Compress::Gzip as the default value for the OS byte in all gzip headers it creates.

The variable GZIP_OS_CODE in the config.in file controls the setting of this value when building Compress-Raw-Zlib. If GZIP_OS_CODE is set to AUTO_DETECT, Compress-Raw-Zlib will attempt to determine the correct value for your Operating System.

Alternatively, you can override auto-detection of the default OS code and explicitly set it yourself. Set the GZIP_OS_CODE variable in the config.in file to be a number between 0 and 255. For example
GZIP_OS_CODE = 3

See RFC 1952 for valid OS codes that can be used.

If you are running one of the less popular Operating Systems, it is possible that the default value picked by this module is incorrect or the default value (3) is used when there is a better value available. When Compress-Raw-Zlib cannot determine what operating system you are running, it will use the default value 3 for the OS code.

If you find you have to change this value, because you think the value auto detected is incorrect, please take a few moments to contact the author of this module.

TROUBLESHOOTING
-----------------

Undefined Symbol gzsetparams
----------------------------

If you get the error shown below when you run the Compress-Raw-Zlib test harness it probably means you are running a copy of zlib that is version 1.0.5 or older.

```
t/01version.........Can't load 'blib/arch/auto/Compress/Zlib/Zlib.so' for module Compress::Raw::Zlib: blib/arch/auto/Compress/Raw/Zlib/Zlib.so: undefined symbol: gzsetparams at ...
```

There are two ways to fix this problem:

1. Upgrade to the latest version of zlib.

2. Edit config.in and set the OLD_ZLIB variable to True.

Test Harness 01version fails
----------------------------

If the 01version test harness fails, and the problem isn't covered by the scenario above, it probably means that you have two versions of zlib installed on your system.

Run the command below to see if this is indeed the case

```
make test TEST_VERBOSE=1 TEST_FILES=t/01version.t
```

Try removing the one you don't want to use and rebuild.

Solaris build fails with "language optional software package not installed"

---------------------------------------------------------------
If you are trying to build this module under Solaris and you get an error message like this

/usr/ucb/cc: language optional software package not installed

it means that Perl cannot find the C compiler on your system. The cryptic message is just Sun's way of telling you that you haven't bought their C compiler.

When you build a Perl module that needs a C compiler, the Perl build system tries to use the same C compiler that was used to build perl itself. In this case your Perl binary was built with a C compiler that lived in /usr/ucb.

To continue with building this module, you need to get a C compiler, or tell Perl where your C compiler is, if you already have one.

Assuming you have now got a C compiler, what you do next will be dependent on what C compiler you have installed. If you have just installed Sun's C compiler, you shouldn't have to do anything. Just try rebuilding this module.

If you have installed another C compiler, say gcc, you have to tell perl how to use it instead of /usr/ucb/cc.

This set of options seems to work if you want to use gcc. Your mileage may vary.

perl Makefile.PL CC=gcc CCCDLFLAGS=-fPIC OPTIMIZE=" "

make test

If that doesn't work for you, it's time to make changes to the Makefile by hand. Good luck!

Solaris build fails with "gcc: unrecognized option `\-KPIC''

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

You are running Solaris and you get an error like this when you try to build this Perl module

gcc: unrecognized option `\-KPIC''

This symptom usually means that you are using a Perl binary that has been built with the Sun C compiler, but you are using gcc to build this module.

When Perl builds modules that need a C compiler, it will attempt to use the same C compiler and command line options that was used to build perl
itself. In this case "-KPIC" is a valid option for the Sun C compiler, but not for gcc. The equivalent option for gcc is "-fPIC".

The solution is either:

1. Build both Perl and this module with the same C compiler, either by using the Sun C compiler for both or gcc for both.

2. Try generating the Makefile for this module like this perl

   perl Makefile.PL CC=gcc CCCDLFLAGS=-fPIC OPTIMIZE=" " LD=gcc
   make test

   This second option seems to work when mixing a Perl binary built with the Sun C compiler and this module built with gcc. Your mileage may vary.

HP-UX Notes
-----------

I've had a report that when building Compress-Raw-Zlib under HP-UX that it is necessary to have first built the zlib library with the -fpic option.

Linux Notes
-----------

Although most Linux distributions already come with zlib, some people report getting this error when they try to build this module:

$ make
   cp Zlib.pm blib/lib/Compress/Zlib.pm
   AutoSplitting blib/lib/Compress/Zlib.pm (blib/lib/auto/Compress/Zlib)
   /usr/bin/perl -I/usr/lib/perl5/5.6.1/i386-linux -I/usr/lib/perl5/5.6.1 /usr/lib/perl5/5.6.1/ExtUtils/xsubpp -typemap
   /usr/lib/perl5/5.6.1/ExtUtils/typemap -typemap typemap Zlib.xs > Zlib.xsc && mv Zlib.xsc Zlib.c
   gcc -c -I/usr/local/include -fno-strict-aliasing -I/usr/local/include -O2 -march=i386 -mcpu=i686 -DVERSION="1.16" -DXS_VERSION="1.16" -fPIC -I/usr/lib/perl/5.6.1/i386-linux/CORE Zlib.c
   Zlib.xs:25:19: zlib.h: No such file or directory
   make: *** [Zlib.o] Error 1

   This usually means that you have not installed the development RPM for zlib. Check for an RPM that start with "zlib-devel" in your Linux distribution.

Win32 Notes
-----------

If you are running Activestate Perl (from http://www.activestate.com),
it ships with a pre-compiled version of Compress-Raw-Zlib. To check if a newer version of Compress-Raw-Zlib is available run this from the command prompt

```
C:\> ppm verify -upgrade Compress-Raw-Zlib
```

If you are not running Activestate Perl and you don't have access to a C compiler, you will not be able to build and install this module.

Win32 & Cygwin Notes

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

It is not possible to install Compress-Raw-Zlib using the CPAN shell. This is because the Compress-Raw-Zlib DLL is itself used by the CPAN shell and it is impossible to remove a DLL while it is already loaded under Windows.

The workaround is to install Compress-Raw-Zlib manually using the instructions given at the start of this file.

FEEDBACK

--------

How to report a problem with Compress-Raw-Zlib.

To help me help you, I need all of the following information:

1. The Versions of everything relevant.

   This includes:

   a. The *complete* output from running this

      ```
      perl -V
      ```

      Do not edit the output in any way.
      Note, I want you to run "perl -V" and NOT "perl -v".

      If your perl does not understand the "-V" option it is too old. This module needs Perl version 5.004 or better.

   b. The version of Compress-Raw-Zlib you have.
      If you have successfully installed Compress-Raw-Zlib, this one-liner will tell you:

      ```
      perl -MCompress::Raw::Zlib -e 'print qq[ver $Compress::Raw::Zlib::VERSION\n]'
      ```

      If you are running windows use this
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 45332

perl -MCompress::Raw::Zlib -e "print qq[ver $Compress::Raw::Zlib::VERSION\n]"

If you haven't installed Compress-Raw-Zlib then search Compress::Raw::Zlib.pm for a line like this:

$VERSION = "2.061" ;

c. The version of zlib you have used.
If you have successfully installed Compress-Raw-Zlib, this one-liner will tell you:

perl -MCompress::Raw::Zlib -e "print q[zlib ver ]. Compress::Raw::ZLIB_VERSION.qq\n"

If not, look at the beginning of the file zlib.h.

2. If you are having problems building Compress-Raw-Zlib, send me a complete log of what happened. Start by unpacking the Compress-Raw-Zlib module into a fresh directory and keep a log of all the steps

[edit config.in, if necessary]
perl Makefile.PL
make
make test TEST_VERBOSE=1

Paul Marquess <pmqs@cpan.org>

Found in path(s):
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=head1 NAME

Compress::Raw::Zlib - Low-Level Interface to zlib compression library

=head1 SYNOPSIS

use Compress::Raw::Zlib :

($d, $status) = new Compress::Raw::Zlib::Deflate( [OPT] ) ;
$status = $d->deflate($input, $output) ;
$status = $d->flush($output [, $flush_type]) ;
$d->deflateReset() ;
$d->deflateParams(OPTS) ;
$d->deflateTune(OPTS) ;
$d->dict_adler() ;
$d->crc32() ;
The `Compress::Raw::Zlib` module provides a Perl interface to the `zlib` compression library (see [L/AUTHOR](#) for details about where to get `zlib`).

=head1 Compress::Raw::Zlib::Deflate

This section defines an interface that allows in-memory compression using the `deflate` interface provided by zlib.

Here is a definition of the interface available:

=head2 B<$d, $status> = new Compress::Raw::Zlib::Deflate( [OPT] )

Initialises a deflation object.

If you are familiar with the `zlib` library, it combines the features of the `zlib` functions `deflateInit`, `deflateInit2`
and C<deflateSetDictionary>.

If successful, it will return the initialised deflation object, C<$d> and a C<$status> of C<Z_OK> in a list context. In scalar context it returns the deflation object, C<$d>, only.

If not successful, the returned deflation object, C<$d>, will be I<undef> and C<$status> will hold the a I<zlib> error code.

The function optionally takes a number of named options specified as C<< Name => value >> pairs. This allows individual options to be tailored without having to specify them all in the parameter list.

For backward compatibility, it is also possible to pass the parameters as a reference to a hash containing the name=>value pairs.

Below is a list of the valid options:

=over 5

=item B<-Level>

Defines the compression level. Valid values are 0 through 9, C<Z_NO_COMPRESSION>, C<Z_BEST_SPEED>, C<Z_BEST_COMPRESSION>, and C<Z_DEFAULT_COMPRESSION>.

The default is C<Z_DEFAULT_COMPRESSION>.

=item B<-Method>

Defines the compression method. The only valid value at present (and the default) is C<Z_DEFLATED>.

=item B<-WindowBits>

To compress an RFC 1950 data stream, set C<WindowBits> to a positive number between 8 and 15.

To compress an RFC 1951 data stream, set C<WindowBits> to C<-MAX_WBITS>.

To compress an RFC 1952 data stream (i.e. gzip), set C<WindowBits> to C<WANT_GZIP>.

For a definition of the meaning and valid values for C<WindowBits> refer to the I<zlib> documentation for I<deflateInit2>.

Defaults to C<MAX_WBITS>.
=item B<-MemLevel>

For a definition of the meaning and valid values for C<MemLevel>
refer to the I<zlib> documentation for I<deflateInit2>.

Defaults to MAX_MEM_LEVEL.

=item B<-Strategy>

Defines the strategy used to tune the compression. The valid values are
C<Z_DEFAULT_STRATEGY>, C<Z_FILTERED>, C<Z_RLE>, C<Z_FIXED> and
C<Z_HUFFMAN_ONLY>.

The default is C<Z_DEFAULT_STRATEGY>.

=item B<-Dictionary>

When a dictionary is specified I<Compress::Raw::Zlib> will automatically
call C<deflateSetDictionary> directly after calling C<deflateInit>. The
Adler32 value for the dictionary can be obtained by calling the method
C<$d-E<gt>dict_adler()>.

The default is no dictionary.

=item B<-Bufsize>

Sets the initial size for the output buffer used by the C<$d-E<gt>deflate>
and C<$d-E<gt>flush> methods. If the buffer has to be
reallocated to increase the size, it will grow in increments of
C<Bufsize>.

The default buffer size is 4096.

=item B<-AppendOutput>

This option controls how data is written to the output buffer by the
C<$d-E<gt>deflate> and C<$d-E<gt>flush> methods.

If the C<AppendOutput> option is set to false, the output buffers in the
C<$d-E<gt>deflate> and C<$d-E<gt>flush> methods will be truncated before
uncompressed data is written to them.

If the option is set to true, uncompressed data will be appended to the
output buffer in the C<$d-E<gt>deflate> and C<$d-E<gt>flush> methods.

This option defaults to false.

=item B<-CRC32>
If set to true, a crc32 checksum of the uncompressed data will be calculated. Use the C<$d-E<gt>crc32> method to retrieve this value.

This option defaults to false.

=item B<-ADLER32>

If set to true, an adler32 checksum of the uncompressed data will be calculated. Use the C<$d-E<gt>adler32> method to retrieve this value.

This option defaults to false.

=back

Here is an example of using the C<Compress::Raw::Zlib::Deflate> optional parameter list to override the default buffer size and compression level. All other options will take their default values.

    my $d = new Compress::Raw::Zlib::Deflate ( -Bufsize => 300,
                                  -Level   => Z_BEST_SPEED ) ;

=head2 B<$status = $d-E<gt>deflate($input, $output)> Deflates the contents of C<$input> and writes the compressed data to C<$output>.

The C<$input> and C<$output> parameters can be either scalars or scalar references.

When finished, C<$input> will be completely processed (assuming there were no errors). If the deflation was successful it writes the deflated data to C<$output> and returns a status value of C<Z_OK>.

On error, it returns a I<zlib> error code.

If the C<AppendOutput> option is set to true in the constructor for the C<$d> object, the compressed data will be appended to C<$output>. If it is false, C<$output> will be truncated before any compressed data is written to it.

B<Note>: This method will not necessarily write compressed data to C<$output> every time it is called. So do not assume that there has been an error if the contents of C<$output> is empty on returning from this method. As long as the return code from the method is C<Z_OK>, the deflate has succeeded.

=head2 B<$status = $d-E<gt>flush($output [, $flush_type]) >
Typically used to finish the deflation. Any pending output will be written to $output$.

Returns $Z_OK$ if successful.

Note that flushing can seriously degrade the compression ratio, so it should only be used to terminate a decompression (using $Z_FINISH$) or when you want to create a full flush point (using $Z_FULL_FLUSH$).

By default the $flush_type$ used is $Z_FINISH$. Other valid values for $flush_type$ are $Z_NO_FLUSH$, $Z_PARTIAL_FLUSH$, $Z_SYNC_FLUSH$ and $Z_FULL_FLUSH$. It is strongly recommended that you only set the $flush_type$ parameter if you fully understand the implications of what it does. See the $zlib$ documentation for details.

If the $AppendOutput$ option is set to true in the constructor for the $d$ object, the compressed data will be appended to $output$. If it is false, $output$ will be truncated before any compressed data is written to it.

=head2 $status = $d-e>deflateReset() >

This method will reset the deflation object $d$. It can be used when you are compressing multiple data streams and want to use the same object to compress each of them. It should only be used once the previous data stream has been flushed successfully, i.e. a call to $<<$d->flush($Z_FINISH) >> has returned $Z_OK$.

Returns $Z_OK$ if successful.

=head2 $status = $d-e>deflateParams([OPT])>

Change settings for the deflate object $d$.

The list of the valid options is shown below. Options not specified will remain unchanged.

=over 5
=item B<-Level>
Defines the compression level. Valid values are 0 through 9, $Z_NO_COMPRESSION$, $Z_BEST_SPEED$, $Z_BEST_COMPRESSION$, and $Z_DEFAULT_COMPRESSION$.

=item B<-Strategy>
Defines the strategy used to tune the compression. The valid values are
C<Z_DEFAULT_STRATEGY>, C<Z_FILTERED> and C<Z_HUFFMAN_ONLY>.

=item B<-BufSize>

Sets the initial size for the output buffer used by the C<$d-E<gt>deflate>
and C<$d-E<gt>flush> methods. If the buffer has to be
reallocated to increase the size, it will grow in increments of
C<Bufsize>.

=back

=head2 B<$status = $d-E<gt>deflateTune($good_length, $max_lazy, $nice_length, $max_chain)>

Tune the internal settings for the deflate object C<$d>. This option is
only available if you are running zlib 1.2.2.3 or better.

Refer to the documentation in zlib.h for instructions on how to fly
C<deflateTune>.

=head2 B<$d-E<gt>dict_adler()>

Returns the adler32 value for the dictionary.

=head2 B<$d-E<gt>crc32()>

Returns the crc32 value for the uncompressed data to date.

If the C<CRC32> option is not enabled in the constructor for this object,
this method will always return 0;

=head2 B<$d-E<gt>adler32()>

Returns the adler32 value for the uncompressed data to date.

=head2 B<$d-E<gt>msg()>

Returns the last error message generated by zlib.

=head2 B<$d-E<gt>total_in()>

Returns the total number of bytes uncompressed bytes input to deflate.

=head2 B<$d-E<gt>total_out()>

Returns the total number of compressed bytes output from deflate.

=head2 B<$d-E<gt>get_Strategy()>
Returns the deflation strategy currently used. Valid values are 
C<Z_DEFAULT_STRATEGY>, C<Z_FILTERED> and C<Z_HUFFMAN_ONLY>.

=head2 B<$d-E<gt>get_Level()>

Returns the compression level being used.

=head2 B<$d-E<gt>get_BufSize()>

Returns the buffer size used to carry out the compression.

=head2 Example

Here is a trivial example of using C<deflate>. It simply reads standard 
input, deflates it and writes it to standard output.

    use strict;
    use warnings;

    use Compress::Raw::Zlib;

    binmode STDIN;
    binmode STDOUT;
    my $x = new Compress::Raw::Zlib::Deflate
      or die "Cannot create a deflation stream\n"
    ;

    my ($output, $status) ;
    while (<>)
      {
        $status = $x->deflate($_, $output) ;

        $status == Z_OK
          or die "deflation failed\n" ;

        print $output ;
      }

    $status = $x->flush($output) ;

    $status == Z_OK
      or die "deflation failed\n" ;

    print $output ;

=head1 Compress::Raw::Zlib::Inflate

This section defines an interface that allows in-memory uncompression using
the I<inflate> interface provided by zlib.

Here is a definition of the interface:

=head2 B< ($i, $status) = new Compress::Raw::Zlib::Inflate( [OPT] ) >

Initialises an inflation object.

In a list context it returns the inflation object, C<$i>, and the
I<zlib> status code (C<$status>). In a scalar context it returns the
inflation object only.

If successful, C<$i> will hold the inflation object and C<$status> will
be C<Z_OK>.

If not successful, C<$i> will be I<undef> and C<$status> will hold the
I<zlib> error code.

The function optionally takes a number of named options specified as
C<< -Name => value >> pairs. This allows individual options to be
tailored without having to specify them all in the parameter list.

For backward compatibility, it is also possible to pass the parameters
as a reference to a hash containing the C<< name=>value >> pairs.

Here is a list of the valid options:

=over 5

=item B<-WindowBits>

To uncompress an RFC 1950 data stream, set C<WindowBits> to a positive
number between 8 and 15.

To uncompress an RFC 1951 data stream, set C<WindowBits> to C<-MAX_WBITS>.

To uncompress an RFC 1952 data stream (i.e. gzip), set C<WindowBits> to
C<WANT_GZIP>.

To auto-detect and uncompress an RFC 1950 or RFC 1952 data stream (i.e.
gzip), set C<WindowBits> to C<WANT_GZIP OR_ZLIB>.

For a full definition of the meaning and valid values for C<WindowBits>
refer to the I<zlib> documentation for I<inflateInit2>.

Defaults to C<MAX_WBITS>.

=item B<-Bufsize>
Sets the initial size for the output buffer used by the \texttt{inflate} method. If the output buffer in this method has to be reallocated to increase the size, it will grow in increments of \texttt{Bufsize}.

Default is 4096.

\texttt{-Dictionary}

The default is no dictionary.

\texttt{-AppendOutput}

This option controls how data is written to the output buffer by the \texttt{inflate} method.

If the option is set to false, the output buffer in the \texttt{inflate} method will be truncated before uncompressed data is written to it.

If the option is set to true, uncompressed data will be appended to the output buffer by the \texttt{inflate} method.

This option defaults to false.

\texttt{-CRC32}

If set to true, a crc32 checksum of the uncompressed data will be calculated. Use the \texttt{crc32} method to retrieve this value.

This option defaults to false.

\texttt{-ADLER32}

If set to true, an adler32 checksum of the uncompressed data will be calculated. Use the \texttt{adler32} method to retrieve this value.

This option defaults to false.

\texttt{-ConsumeInput}

If set to true, this option will remove compressed data from the input buffer of the \texttt{inflate} method as the inflate progresses.

This option can be useful when you are processing compressed data that is embedded in another file/buffer. In this case the data that immediately follows the compressed stream will be left in the input buffer.

This option defaults to true.
The C<LimitOutput> option changes the behavior of the C<< $i->inflate >> method so that the amount of memory used by the output buffer can be limited.

When C<LimitOutput> is used the size of the output buffer used will either be the value of the C<Bufsize> option or the amount of memory already allocated to C<$output>, whichever is larger. Predicting the output size available is tricky, so don't rely on getting an exact output buffer size.

When C<LimitOutput> is not specified C<< $i->inflate >> will use as much memory as it takes to write all the uncompressed data it creates by uncompressing the input buffer.

If C<LimitOutput> is enabled, the C<ConsumeInput> option will also be enabled.

This option defaults to false.

See L</The LimitOutput option> for a discussion on why C<LimitOutput> is needed and how to use it.

Here is an example of using an optional parameter to override the default buffer size.

my ($i, $status) = new Compress::Raw::Zlib::Inflate( -Bufsize => 300 ) ;

Inflates the complete contents of C<$input> and writes the uncompressed data to C<$output>. The C<$input> and C<$output> parameters can either be scalars or scalar references.

Returns C<Z_OK> if successful and C<Z_STREAM_END> if the end of the compressed data has been successfully reached.

If not successful C<$status> will hold the I<zlib> error code.

If the C<ConsumeInput> option has been set to true when the C<Compress::Raw::Zlib::Inflate> object is created, the C<$input> parameter is modified by C<inflate>. On completion it will contain what remains of the input buffer after inflation. In practice, this means that when the return status is C<Z_OK> the C<$input> parameter will contain an empty string, and when the return status is C<Z_STREAM_END> the C<$input>
This feature is useful when processing a file format that encapsulates a compressed data stream (e.g. gzip, zip) and there is useful data immediately after the deflation stream.

If the C<$AppendOutput> option is set to true in the constructor for this object, the uncompressed data will be appended to C<$output>. If it is false, C<$output> will be truncated before any uncompressed data is written to it.

The C<$eof> parameter needs a bit of explanation.

Prior to version 1.2.0, zlib assumed that there was at least one trailing byte immediately after the compressed data stream when it was carrying out decompression. This normally isn’t a problem because the majority of zlib applications guarantee that there will be data directly after the compressed data stream. For example, both gzip (RFC 1950) and zip both define trailing data that follows the compressed data stream.

The C<$eof> parameter only needs to be used if B<all> of the following conditions apply

- over 5
- item 1

You are either using a copy of zlib that is older than version 1.2.0 or you want your application code to be able to run with as many different versions of zlib as possible.

- item 2

You have set the C<WindowBits> parameter to C<-MAX_WBITS> in the constructor for this object, i.e. you are uncompressing a raw deflated data stream (RFC 1951).

- item 3

There is no data immediately after the compressed data stream.

back

If B<all> of these are the case, then you need to set the C<$eof> parameter to true on the final call (and only the final call) to C<i-E<gt>inflate>.

If you have built this module with zlib >= 1.2.0, the C<$eof> parameter is
This method can be used to attempt to recover good data from a compressed data stream that is partially corrupt. It scans \texttt{\$input} until it reaches either a \texttt{full flush point} or the end of the buffer.

If a \texttt{full flush point} is found, \texttt{Z_OK} is returned and \texttt{\$input} will be have all data up to the flush point removed. This data can then be passed to the \texttt{\$i-E<gt>inflate} method to be uncompressed.

Any other return code means that a flush point was not found. If more data is available, \texttt{inflateSync} can be called repeatedly with more compressed data until the flush point is found.

Note \texttt{full flush points} are not present by default in compressed data streams. They must have been added explicitly when the data stream was created by calling \texttt{Compress::Deflate::flush} with \texttt{Z_FULL_FLUSH}.

This method will reset the inflation object \texttt{\$i}. It can be used when you are uncompressing multiple data streams and want to use the same object to uncompress each of them.

Returns \texttt{Z_OK} if successful.

Returns the adler32 value for the dictionary.

Returns the crc32 value for the uncompressed data to date.

If the \texttt{CRC32} option is not enabled in the constructor for this object, this method will always return 0;

Returns the adler32 value for the uncompressed data to date.

If the \texttt{ADLER32} option is not enabled in the constructor for this object, this method will always return 0;
Returns the last error message generated by zlib.

Returns the total number of bytes compressed bytes input to inflate.

Returns the total number of uncompressed bytes output from inflate.

Returns the buffer size used to carry out the decompression.

Examples

Here is an example of using C<inflate>.

```perl
use strict;
use warnings;
use Compress::Raw::Zlib;

my $x = new Compress::Raw::Zlib::Inflate()
    or die "Cannot create a inflation stream\n";

my $input = "\n;
binmode STDIN;
binmode STDOUT;

my ($output, $status);
while (read(STDIN, $input, 4096))
{
    $status = $x->inflate($input, $output);

    print $output;
    last if $status != Z_OK;
}

die "inflation failed\n"
    unless $status == Z_STREAM_END;

The next example show how to use the C<LimitOutput> option. Notice the use
of two nested loops in this case. The outer loop reads the data from the
input source - STDIN and the inner loop repeatedly calls C<inflate> until
C<$input> is exhausted, we get an error, or the end of the stream is reached. One point worth remembering is by using the C<LimitOutput> option you also get C<ConsumeInput> set as well - this makes the code below much simpler.

```perl
use strict;
use warnings;

use Compress::Raw::Zlib;

my $x = new Compress::Raw::Zlib::Inflate(LimitOutput => 1)
    or die "Cannot create a inflation stream\n";

my $input = "";
binmode STDIN;
binmode STDOUT;

my ($output, $status);

OUTER:
    while (read(STDIN, $input, 4096))
    {
        do
        {
            $status = $x->inflate($input, $output);

            print $output;

            last OUTER
                unless $status == Z_OK || $status == Z_BUF_ERROR;
        }
        while ($status == Z_OK && length $input);
    }

die "inflation failed\n"
    unless $status == Z_STREAM_END;

=head1 CHECKSUM FUNCTIONS

Two functions are provided by I<zlib> to calculate checksums. For the Perl interface, the order of the two parameters in both functions has been reversed. This allows both running checksums and one off calculations to be done.

```
$crc = adler32($buffer [, $crc])
$crc = crc32($buffer [, $crc])
```

The buffer parameters can either be a scalar or a scalar reference.
If the $crc parameters is C<undef>, the crc value will be reset.

If you have built this module with zlib 1.2.3 or better, two more
CRC-related functions are available.

$s = adler32_combine($crc1, $crc2, $len2)
$s = crc32_combine($adler1, $adler2, $len2)

These functions allow checksums to be merged.

=head1 Misc

=head2 my $version = Compress::Raw::Zlib::zlib_version();

Returns the version of the zlib library.

=head2 my $flags = Compress::Raw::Zlib::zlibCompileFlags();

Returns the flags indicating compile-time options that were used to build
the zlib library. See the zlib documentation for a description of the flags
returned by C<zlibCompileFlags>.

Note that when the zlib sources are built along with this module the
C<printf> flags (bits 24, 25 and 26) should be ignored.

If you are using zlib 1.2.0 or older, C<zlibCompileFlags> will return 0.

=head1 The LimitOutput option.

By default C< $i->inflate($input, $output) >> will uncompress I<all> data
in C<$input> and write I<all> of the uncompressed data it has generated to
C<$output>. This makes the interface to C<inflate> much simpler - if the
method has uncompressed C<$input> successfully I<all> compressed data in
C<$input> will have been dealt with. So if you are reading from an input
source and uncompressing as you go the code will look something like this

use strict ;
use warnings ;

use Compress::Raw::Zlib;

my $x = new Compress::Raw::Zlib::Inflate()
  or die "Cannot create a inflation stream\n"

my $input = " ";
my ($output, $status) ;
while (read(STDIN, $input, 4096))
{
    $status = $x->inflate($input, $output) ;

    print $output ;

    last if $status != Z_OK ;
}

die "inflation failed\n"
    unless $status == Z_STREAM_END ;

The points to note are

=over 5

=item *

The main processing loop in the code handles reading of compressed data from STDIN.

=item *

The status code returned from C<inflate> will only trigger termination of the main processing loop if it isn't C<Z_OK>. When C<LimitOutput> has not been used the C<Z_OK> status means means that the end of the compressed data stream has been reached or there has been an error in uncompression.

=item *

After the call to C<inflate> all of the uncompressed data in C<$input> will have been processed. This means the subsequent call to C<read> can overwrite it's contents without any problem.

=back

For most use-cases the behavior described above is acceptable (this module and it's predecessor, C<Compress::Zlib>, have used it for over 10 years without an issue), but in a few very specific use-cases the amount of memory required for C<$output> can prohibitively large. For example, if the compressed data stream contains the same pattern repeated thousands of times, a relatively small compressed data stream can uncompress into hundreds of megabytes. Remember C<inflate> will keep allocating memory until I<all> the uncompressed data has been written to the output buffer - the size of C<$output> is unbounded.

The C<LimitOutput> option is designed to help with this use-case.
The main difference in your code when using `LimitOutput` is having to deal with cases where the `$input` parameter still contains some uncompressed data that `inflate` hasn’t processed yet. The status code returned from `inflate` will be `Z_OK` if uncompression took place and `Z_BUF_ERROR` if the output buffer is full.

Below is typical code that shows how to use `LimitOutput`.

```perl
use strict;
use warnings;
use Compress::Raw::Zlib;

my $x = new Compress::Raw::Zlib::Inflate(LimitOutput => 1)
    or die "Cannot create a inflation stream\n";

my $input = '';
binmode STDIN;
binmode STDOUT;

my ($output, $status);

OUTER:
    while (read(STDIN, $input, 4096))
    {
        do
        {
            $status = $x->inflate($input, $output);

            print $output;

            last OUTER
            unless $status == Z_OK || $status == Z_BUF_ERROR;
        }
        while ($status == Z_OK && length $input);
    }

die "inflation failed\n";
    unless $status == Z_STREAM_END;

Points to note this time:

=over 5
=item *
There are now two nested loops in the code: the outer loop for reading the compressed data from STDIN, as before; and the inner loop to carry out the
There are two exit points from the inner uncompression loop.

Firstly when C<inflate> has returned a status other than C<Z_OK> or C<Z_BUF_ERROR>. This means that either the end of the compressed data stream has been reached (C<Z_STREAM_END>) or there is an error in the compressed data. In either of these cases there is no point in continuing with reading the compressed data, so both loops are terminated.

The second exit point tests if there is any data left in the input buffer, C<$input> - remember that the C<ConsumeInput> option is automatically enabled when C<LimitOutput> is used. When the input buffer has been exhausted, the outer loop can run again and overwrite a now empty C<$input>.

=head1 ACCESSING ZIP FILES

Although it is possible (with some effort on your part) to use this module to access .zip files, there are other perl modules available that will do all the hard work for you. Check out C<Archive::Zip>, C<Archive::Zip::SimpleZip>, C<IO::Compress::Zip> and C<IO::Uncompress::Unzip>.

=head1 FAQ

=head2 Compatibility with Unix compress/uncompress.

This module is not compatible with Unix C<compress>.

If you have the C<uncompress> program available, you can use this to read compressed files

```perl
open F, "uncompress -c $filename |";
while (<F>)
{
  ...
}
```

Alternatively, if you have the C<gunzip> program available, you can use this to read compressed files

```perl
open F, "gunzip -c $filename |";
while (<F>)
{
  ...
}
```
and this to write compress files, if you have the C<compress> program available

    open F, "| compress -c $filename ";
    print F "data"
    ...
    close F;

=head2 Accessing .tar.Z files

See previous FAQ item.

If the C<Archive::Tar> module is installed and either the C<uncompress> or C<gunzip> programs are available, you can use one of these workarounds to read C<.tar.Z> files.

Firstly with C<uncompress>

    use strict;
    use warnings;
    use Archive::Tar;

    open F, "uncompress -c $filename |";
    my $tar = Archive::Tar->new(*F);
    ...

    and this with C<gunzip>

    use strict;
    use warnings;
    use Archive::Tar;

    open F, "gunzip -c $filename |";
    my $tar = Archive::Tar->new(*F);
    ...

Similarly, if the C<compress> program is available, you can use this to write a C<.tar.Z> file

    use strict;
    use warnings;
    use Archive::Tar;
    use IO::File;

    my $fh = new IO::File "| compress -c >$filename"
    my $tar = Archive::Tar->new();
By default C<Compress::Raw::Zlib> will build with a private copy of version 1.2.5 of the zlib library. (See the F<README> file for details of how to override this behaviour)

If you decide to use a different version of the zlib library, you need to be aware of the following issues

- First off, you must have zlib 1.0.5 or better.
- You need to have zlib 1.2.1 or better if you want to use the C<-Merge> option with C<IO::Compress::Gzip>, C<IO::Compress::Deflate> and C<IO::Compress::RawDeflate>.

All the I<zlib> constants are automatically imported when you make use of I<Compress::Raw::Zlib>.

For RFC 1950, 1951 and 1952 see
The I<zlib> compression library was written by Jean-loup Gailly F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is F<http://www.zlib.org>.

The primary site for gzip is F<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2013 Paul Marquess. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* inflate.h -- internal inflate state definition
 * Copyright (C) 1995-2009 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If
you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0   all tests successful
255 test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using current_test() they will all be effected.

Test::Builder is only thread-aware if threads.pm is loaded I<before> Test::Builder.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More, Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS

Original code by chromatic, maintained by Michael G Schwern
E<lt>schwern@pobox.comE<gt>

=head1 COPYRIGHT

Copyright 2002, 2004 by chromatic E<lt>chromatic@wgz.orgE<gt> and Michael G Schwern E<lt>schwern@pobox.comE<gt>.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>
/* deflate.c -- compress data using the deflation algorithm
 * Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

/* inftrees.h -- header to use inftrees.c
 * Copyright (C) 1995-2005, 2010 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

/* infback.c -- inflate using a call-back interface
 * Copyright (C) 1995-2011 Mark Adler
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

/* Filename: Zlib.xs
 * Author  : Paul Marquess, <pmqs@cpan.org>
 * Created : 22nd January 1996
 * Version : 2.000
 *
 * Copyright (c) 1995-2013 Paul Marquess. All rights reserved.
 * This program is free software; you can redistribute it and/or
* modify it under the same terms as Perl itself.
*
*/
/* gzio.c -- IO on .gz files
* Copyright (C) 1995 Jean-loup Gailly.
* For conditions of distribution and use, see copyright notice in zlib.h
*/
/* gzappend -- command to append to a gzip file

Copyright (C) 2003 Mark Adler, all rights reserved
version 1.1, 4 Nov 2003
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* inflate.c -- zlib decompression
* Copyright (C) 1995-2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1148334615_1619430212.89/0/perl-Compress-Raw-Zlib-2.061-4.el7-1.src.rpm-cosi-expand-archive-ay6Qc1o4/perl-Compress-Raw-Zlib.spec
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2013 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.
/* adler32.c -- compute the Adler-32 checksum of a data stream  
 * Copyright (C) 1995-2011 Mark Adler  
 * For conditions of distribution and use, see copyright notice in zlib.h  
 */

---

abstract: unknown
author:  
  - unknown
build_requires:  
  ExtUtils::MakeMaker: 0
configure_requires:  
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: perl
meta-spec:  
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Compress-Raw-Zlib
no_index:
directory:  
  - t
  - inc
  - t
  - private
requires: {}
version: 2.061

/* trees.c -- output deflated data using Huffman coding  
 * Copyright (C) 1995-2012 Jean-loup Gailly  
 * detect_data_type() function provided freely by Cosmin Truta, 2006  
 * For conditions of distribution and use, see copyright notice in zlib.h  
 */

---

No license file was found, but licenses were detected in source scan.
/* compress.c -- compress a memory buffer
 * Copyright (C) 1995-2005 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/* zconf.h -- configuration of the zlib compression library
 * Copyright (C) 1995-2013 Jean-loup Gailly.
 * For conditions of distribution and use, see copyright notice in zlib.h
 */

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
----------------------------------------------------------------------
ppport.h -- Perl/Pollution/Portability Version 3.20_01

Automatically created by Devel::PPPort running under perl 5.016001.

Do NOT edit this file directly! -- Edit PPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

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

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.20_01
=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>
If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C|--patch> or C|--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints
In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.
Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.
<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for
=head1 EXAMPLES

To verify whether `F<ppport.h>` is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, `F<ppport.h>` can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different `C<diff>` program or options, using the `C<--diff>` option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the `C<newSVpvn>` function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to `C<--api-info>` can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/
to display portability information for all C\_nomg> functions or

perl ppport.h --api-info=./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT
Version 3.x, Copyright (c) 2004-2012, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '$_{^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.20_01;

my %opt = (
    quiet => 0,
    diag  => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip  => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[(\w.]+)\$/;
my $LF = '(?:\r\n|\[\r\n\])';   # line feed
my $HS = '[ ]\t';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.*\*/';
my $cce = '*./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
        help quiet diag! filter! hints! changes! cplusplus strip version
        patch=s copy=s diff=s compat-version=s
    )
    )
}
list-provided list-unsupported api-info=s
)) or usage();
;
if ($@ and grep /^-/, @ARGV) {
    usage() if "@ARGV" =~ /-h(?:=elp)\$/;
die "Getopt::Long not found. Please don’t use any options:\n";
}

if ($opt{version}) {
    print "This is $0 $VERSION:\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{’compat-version’}) {
    my($r,$v,$s) = eval { parse_version($opt{’compat-version’}) }; if ($@) {
        die "Invalid version number format: $opt{’compat-version’}\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: $opt{’compat-version’}\n" if $v >= 1000 || $s >= 1000;
    $opt{’compat-version’} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{’compat-version’} = 5;
}

my %API = map { /^\w+\|\w+\|\w+\|\w+\/ ? ( $1 => { ( $2 ? ( base => $2 ) : ()), ( $3 ? ( todo => $3 ) : ()), (index($4, ’v’) >= 0 ? ( varargs => 1 ) : ()), (index($4, ’p’) >= 0 ? ( provided => 1 ) : ()), (index($4, ’n’) >= 0 ? ( nothxarg => 1 ) : ()), ) } qw(
AvFILLp|5.004050||p
AvFILL||
BhKDISABLE||5.017004
BhKENABLE||5.017004
BhKENTRY_set||5.017004
BhKENTRY||
BhKFLAGS||
CALL_BLOCK_HOOKS||
CLASS||n

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 45367
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 45372

PERL_SHORT_MIN|5.004000||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3|5.006000|
PERL_SYS_INIT|||
PERL_SYS_TERM|5.017004|
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_ULONG_MAX|5.004000||p
PERL_ULONG_MIN|5.004000||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSEDDECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn
PL_Sv|5.005000||p
PL_bufend|5.017004||p
PL_bufptr|5.017004||p
PL_check||5.006000|
PL_compiling|5.004050||p
PL_comppad_name|5.017004|
PL_comppad|5.008001|
PL_copline|5.017004||p
PL_curcop|5.004050||p
PL_curpad|5.005000|
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_erro|5.004050||p
PL_error_count|5.017004||p
PL_expect|5.017004||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.017004||p
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PL_in_my|5.017004||p
PL_keyword_plugin|5.011002|
PL_last_in_gv||n
PL_laststatval|5.005000||p
PL_lex_state|5.017004||p
PL_lex_stuff|5.017004||p
PL_lexstr|5.017004||p
PL_modglobal|5.005000||n
PL_na|5.004050||p
PL_no_modify|5.006000||p
PL_ofsgv|5.011000||n
PL_opfreehook|5.011000||n
PL_parser|5.009005||p
PL_peepp|5.007003||n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rpeepp|5.013005||n
PL_rsfp_filters|5.017004||p
PL_rsfp|5.017004||p
PL_rs|5.017004|
PL_signals|5.008001||p
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madlex||
madparse||
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magic_set_all_env
magic_setarylen
magic_setcolxfrm
magic_setdbline
magic_setdefelem
magic_setenv
magic_sethint
magic_setisa
magic_setmglob
magic_setnkeys
magic_setpack
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magic_setregexp
magic_setsig
magic_setsubstr
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my_htobei
my_htobes
my_htole16
my_htole32
my_htole64
my_htolei
my_htoles
my_htonl
my_kid
my_letoh16
my_letoh32
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my_letohi
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my_pclose
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my_snprintf
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save_hdelete[5.011000]
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save_helem[5.004050]
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save_list[]
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sv_catpvf|5.004000|v
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sv_catpvn_mg|5.013006|
sv_catpvn_nomg|5.007002|p
sv_catpvn
sv_catpvsvs_flags|5.013006|
sv_catpvsvs_mg|5.013006|
sv_catpvsvs_nomg|5.013006|
sv_catpvsvs|5.009003|p
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sv_pvbyteen_force
sv_pvbyteen
sv_pvbyte
sv_pvutf8_force
sv_pvutf8
sv_pv
sv_recode_to_utf8
sv_ref
sv_release_COW
sv_replace
sv_report_used
sv_reset
sv_rvweaken
sv_sethek
sv_setiv
sv_setiv_mg
sv_setivf_mg
sv_setivf_nocontext
sv_setivf
sv_setiviv
sv_setpvn
sv_setpvn_mg
sv_setpvs
sv_setref
sv_setref_iv
sv_setref_nv
sv_setref_pvn
sv_setref_pvs
sv_setref_pv
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sv_setsv_cow
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wrap_op_checker
write_no_mem
write_to_stderr
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xml_dump_all
xml_dump_attr
xml_dump_eval
xml_dump_form
xml_dump_indent
xml_dump_packsubs
xml_dump_packsubs
xml_dump_vindent
xs_apiversion_bootcheck
xs_version_bootcheck
yyerror
yyerror
yyerror
yyexpect
yyexpect
yyexpect
yyexpect
yyexpect
yyexpect

);
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {
if (/^}/) {
if (exists $API{$function->[0]}) {
my @n = find_api($function->[1]);
push @{$depends{$function->[0]}}, @n if @n
}
undef $function;
}
else {
$function->[1] .= $_;
}
}
$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};

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$replace = $1 if m{^[\s]*$rcce\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace = $2 if $replace and m{^[\s]*#s*define\s+(\w+)\s+(?:(\s+)?\((\w+)\))?\s*$};
$replace = $2 if m{^[\s]*$rccs\s+Replace\s+\$(w+)\s+$rcce\s*$};
$replace = $2 if m{^[\s]*$rccs\s+Replace\s+\$(w+)\s+$rcce\s*$};

if (m{^[\s]*$rccs\s+(\w+)\s+depends\s+on\s+(\w+)\s+$rcce\s*$}) {
  my @deps = map { s/\s+//g; S_ } split /,\s/, $3;
  for $d (map { s/\s+//g; S_ } split /,\s/, $1) {
    push @{$depends{$d}}, @deps;
  }
}

$need = 1 if m{^[\s]*#if\s+defined\(\(\(\w+)\)\)\\s*$};

for (values %depends) {
  my %s;
  $s_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{\'api-info\'}) {
  my $f;
  my $count = 0;
  my $match = $opt{\'api-info\'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{\'api-info\'}\E$";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "\n=== $f ===\n\n";
    my $info = 0;
    if ($API{$f}{base} || $API{$f}{todo}) {
      my $base = format_version($API{$f}{base} || $API{$f}{todo});
      print "Supported at least starting from perl-$base.\n";
      $info++;
    }
    if ($API{$f}{provided}) {
      my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
      print "Support by $ppport provided back to perl-$todo.\n";
      print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
    }
    print "Depends on: \n\n" if exists $depends{$f};
    print "\nHints:\n\n" if exists $hints{$f};
    print "\nWarnings:\n\n" if exists $warnings{$f};
    $info++;
  }
  if ($info) {
    print "No portability information available.\n" unless $info;
    $count++;
  }
}
$count or print "Found no API matching \'$opt{\'api-info\'}\'.\n";
if (exists $opt{'list-provided'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $hints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my $flags = @flags ? '  [' . join(', ', @flags) . ']' : ' ';
    print "$f$flags
    
    exit 0;
  }
  exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -.c.inc -.xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
  my %seen;
  for (@ARGV) {
    if (-e) {
      if (-f) {
        push @files, $_ unless $seen{$_}++;
      }
      else { warn "'$_' is not a file.
    }
    } else {
      my @new = grep { -f } glob $_
        or warn "'$_' does not exist.
    push @files, grep { !$seen{$_}++ } @new;
  }
  }
  else {
    eval {
      require File::Find;
      File::Find::find(sub {
        $File::Find::name =~ /($srcext)/i
        and push @files, $File::Find::name;
      },
      );
    }
    if ($@) {
      print "$@"
      exit 0;
    }
  }
} else {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;

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defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = @ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /\^\$HS*\$SHS*include[\^\r\n]+\^\bQ\$ppport\^\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "|$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ Ab(?:Perl_.?$match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ AbPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (exists $API{$func}{base} || $API{$func}{base} > $opt{compat-version}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}{$func} = @deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
        for ($func, @deps) {
          $file{needs}{$_} = 'static' if exists $need{$_};
        }
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{compat-version}) {
      if ($c =~ /\^\$func\b/) {
        $file{uses_todo}{$func}++;
      }
    }
  }
}

while ($c =~ /\^\$HS*\$SHS*define\$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$_}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$_}++;
  } else { warning("Possibly wrong #define $1 in $filename") }
}

for qw(uses needs uses_todo needed_global needed_static) {
  for $func (keys %{$file{$_}}) {
    push @{$global{$_}{$func}}, $filename;
  }
}
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {
warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
{$func$1(}g);

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for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}");
    $file{changes} += ($c =~ s/$func/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
    if ($file{uses}{$func}) {
        if (exists $file{uses_deps}{$func}) {
            diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));
        } else {
            diag("Uses $func");
        }
    }
    $warnings += hint($func);
}

unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
            format_version($API{$func}{todo}), ", even with $ppport\n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = "";
    if (not exists $file{uses}{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^#define NEED_$func/NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = "";
    if (not exists $global{uses}{$func}) {
        $message = "No need to define NEED_$func\_GLOBAL if $func is never used";
    } elsif (exists $file{needs}{$func}) {
        $message = "No need to define NEED_$func\_GLOBAL if $func is never used";
    } else {
        $message = "No need to define NEED_$func\_GLOBAL when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^#define NEED_$func\_GLOBAL/NEED_$func\_GLOBAL\b.*$LF//mg);
    }
}
if ($file{needs}[$func] eq 'extern') {
    $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
} elsif ($file{needs}[$func] eq 'static') {
    $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
}

if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL;b.*$LF//mg);
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = "";

    for $func (sort keys %{$file{needs}}) {
        my $type = $file{needs}[$func];
        next if $type eq 'extern';
        my $suffix = $type eq 'global' ? '_GLOBAL' : "");
        unless (exists $file{"needed_$type"}[$func]) {
            if ($type eq 'global') {
                diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
            } else {
                diag("File needs $func, adding static request");
            }
            $pp .= "\#define NEED_$func$suffix\n";
        } else {
        }
    }

    if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+).*$/\$pp/m)) {
        $pp = "";
        $file{changes}++;
    }

    unless ($file{has_inc_ppport}) {
        diag("Needs to include '$ppport'");
        $pp .= qq(#include "$ppport\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/^\$(\$HS*#$HS*define$HS+NEED_\w+.*)\$/\$pp/ms)
            || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/\$pp/m)
            || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.*\s*?)^/$1\$pp/m)
            || ($c =~ s/^/$pp/);
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include \$ppport\":");
        $file{changes} += ($c =~ s/^\/$HS*?#\$HS*include.*\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcces/$ccs$ccom[$ix] $ce/;
    } else {
        $c =~ s/$rccs$ix$rcces/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : "");
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : "");
my $warn = $warnings ? " ($warnings warning$s) " : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, "$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: "$!");
            }
        }
    } else {
        error("No copy specified, refusing to write new file");
    }
}
elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
        unless ($patch_opened) {
            if (open PATCH, ">$opt{patch}") {
                $patch_opened = 1;
            } else {
                error("Cannot open '$opt{patch}' for writing: $!");
                delete $opt{patch};
                $opt{changes} = 1;
                goto fallback;
            }
        } mydiff(*PATCH, $filename, $c);
    } else {
        fallback:
        info("Suggested changes");
        mydiff(*STDOUT, $filename, $c);
    } else {
        my $s = $file{changes} == 1 ? '' : 's';
        info("$file{changes} potentially required change$s detected");
    } else {
        info("Looks good");
    }
}

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return @{$@ eq ""} }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }
}
if (!defined $diff and try_use('Text::Diff')) {
    $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
    $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
}

if (!defined $diff) {
    $diff = run_diff('diff -u', $file, $str);
}

if (!defined $diff) {
    $diff = run_diff('diff', $file, $str);
}

if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff {
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = "
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
        }
    }
}
return $diff;
}

unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}
return undef;
}

sub rec_depend
{
    my($func, $seen) = @_;  
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !:$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^((d+).\(d+\).\(d+\)\$/) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\.\[\d_]+$/) {
        die "cannot parse version '$ver'
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /((d+).\(d\[3\]\).\(d\[3\]\))/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 & & $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'
        }
    }

    return ($r, $v, $s);
sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+/\.\d{3}\d{3}/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'"
        }
        $s /= 10;

        $ver = sprintf "%.3d", $r, $v;
        $s > 0 and $ver .= sprintf "_.%02d", $s;

        return $ver;
    }

    return sprintf "%.d.%.d", $r, $v, $s;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "*** ", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}
}
my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++) {
my $warn = $warnings{$func};
$warn =~ s!^!*** !mg;
print "*** WARNING: $func\n", $warn;
$rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
my $hint = $hints{$func};
$hint =~ s/^/ /mg;
print " --- hint for $func ---\n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+\S+/$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}
sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
$copy =~ s/^(?=\S+)/ /gms;
$self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP

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if (@ARGV && $ARGV[0] eq '--unstrip') {
  eval { require Devel::PPPort; };
  \$@ and die "Cannot require Devel::PPPort, please install.\n";
if (eval $Devel::PPPort::VERSION < $VERSION) {
  die "$0 was originally generated with Devel::PPPort $VERSION.\n"
  . "Your Devel::PPPort is only version $Devel::PPPort::VERSION.\n"
  . "Please install a newer version, or --unstrip will not work.\n"
};
Devel::PPPort::WriteFile('$0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of $0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X $0 --unstrip

END

\$/ms;

my($pl, $c) = $self =~ /(.^DATA\_\_\_)\.(.*)/m;
$c =~ s{\n\n(\^\^[^\^]*\^*+(?:[^\^]*\^*+)* /\n[\^\^]\n)*\n}\1 \n}\1s+*\!img;
$c =~ s!\^\^\n!!mg;
$c =~ s!\^[^\^]*\^[^\^]*\#s+*\!img;
$c =~ s!\^[^\^]+!!img;

open OUT, ">$0" or die "cannot strip $0: $\n";
print OUT "$pl\$c\n";

exit 0;
}

__DATA__
/*

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/* zlib.h -- interface of the 'zlib' general purpose compression library 
version 1.2.8, April 28th, 2013

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jloup@gzip.org          madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for 
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

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* Copyright (C) 1995-2003, 2010 Jean-loup Gailly.
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*/

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/* zutil.h -- internal interface and configuration of the compression library
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/* crc32.c -- compute the CRC-32 of a data stream
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*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors. This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/

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DMIDecode Python Extension Module shadows the DMIDecode utility

DMIDecode Python Extension Module

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@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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Also add information on how to contact you by electronic and paper mail.

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@example
@var{program} Copyright (C) @var{year} @var{name of author}
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@end example

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@c man end

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

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

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

Section 6 states terms for distribution of such executables.

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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You should have received a copy of the GNU Library General Public
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MA 02110-1301, USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence the
version number 2.1.]
@end display

@appendixsubsec Preamble

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

This license, the Lesser General Public License, applies to some
specially designated software---typically libraries---of the Free
Software Foundation and other authors who decide to use it. You can use
it too, but we suggest you first think carefully about whether this
license or the ordinary General Public License is the better strategy to
use in any particular case, based on the explanations below.
When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License''). Each licensee is addressed as ``you''.

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You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- The modified work must itself be a software library.
- You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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exercise the right to control the distribution of derivative or collective works based on the Library.

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@item You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

@end enumerate

For an executable, the required form of the `work that uses the Library' must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.556 ftp-server 1.1.1

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1.557 libva 1.8.3-1.el7

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1.559 encoder 1.2.2

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1.560 jbosgi-vfs30 1.2.1.Final-redhat-1

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1.561 sssd 1.16.4-21.el7

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* /opt/cola/permits/1135880174_1613624046.95/0/jcl-over-slf4j-1-7-30-sources-1-jar/META-INF/maven/org.slf4j/jcl-over-slf4j/pom.xml

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1.563 shrinkwrap-api 1.1.2.redhat-1

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* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/classloader/ShrinkWrapClassLoader.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/formatter/FormattingConstants.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/Archive.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/container/ResourceContainer.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/importer/ExplodedImporter.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/importer/ArchiveImporter.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/exporter/ZipExporter.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/asset/UrlAsset.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/asset/ClassAsset.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/SecurityActions.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/Path.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/Paths.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/Asset.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/container/ManifestContainer.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/Filters.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/SecurityActions.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/formatter/VerboseFormatter.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org/jboss/shrinkwrap/api/formatter/Formatter.java
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* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-jar/org.jboss.shrinkwrap/api/ClassLoaderSearchUtil.java
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jar/org/jboss/shrinkwrap/api/serialization/ZipSerializableView.java
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jar/org/jboss/shrinkwrap/api/Configuration.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-
jar/org/jboss/shrinkwrap/api/asset/ByteArrayIOUtil.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-
jar/org/jboss/shrinkwrap/api/importer/TarGzImporter.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-
jar/org/jboss/shrinkwrap/api/exporter/TarExporter.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-
jar/org/jboss/shrinkwrap/api/IllegalArchivePathException.java
* /opt/cola/permits/1132217530_1613127142.73/0/shrinkwrap-api-1-1-2-redhat-1-sources-
jar/org/jboss/shrinkwrap/api/importer/StreamImporter.java

1.564 paratype-pt-sans-fonts 20101909-3.el7
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%global fontname paratype-pt-sans
%global fontconf 57-%{fontname}
%global archivename PTSans.zip

%global common_desc
The PT Sans family was developed as part of the “Public Types of Russian \ Federation” project. This project aims at enabling the peoples of Russia to \ read and write their native languages, using free/libre fonts. It is \ dedicated to the 300-year anniversary of the Russian civil type invented by \ Peter the Great from 1708 to 1710, and was realized with financial support \ from the Russian Federal Agency for Press and Mass Communications. \ \ The fonts include support for all 54 title¹ languages of the Russian \ Federation as well as more common Western, Central European and Cyrillic \ blocks making them unique and a very important tool for modern digital \ communications. \

PT Sans is a grotesque font based on Russian type designs of the second part \ of the 20th century. However, it also includes very distinctive features of \ modern humanistic design, fulfilling present day aesthetic and functional \ requirements.

It was designed by Alexandra Korolkova, Olga Umpleva and Vladimir Yefimov \ and released by ParaType.

¹ A “title” language is named after an ethnic group.
Name: %{fontname}-fonts
Version: 20101909
Release: 3{%?dist}
Summary: A pan-Cyrillic typeface

Group: User Interface/X
License: OFL
URL: http://www.paratype.com/public/
Source0: http://www.fontstock.com/public/PTSans_OFL.zip
Source10: %{name}-fontconfig.conf
Source11: %{name}-caption-fontconfig.conf

BuildArch: noarch
Requires: fontpackages-filesystem
BuildRequires: fontpackages-devel

%description
%common_desc

This package includes the four basic styles and two narrows styles for economic setting.

%_font_pkg -f %{fontconf}.conf PTS*.ttf PTN*.ttf
%doc *.txt

%package -n %{fontname}-caption-fonts
Summary: A pan-Cyrillic typeface (caption forms for small text)
BuildRequires: fontpackages-devel

%description -n %{fontname}-caption-fonts
%common_desc

This package includes 2 captions styles for small text sizes.

%_font_pkg -n caption -f %{fontconf}-caption.conf PTC*.ttf
%doc *.txt

%prep
%setup -q -c

for txt in *.txt ; do
  if $(echo "$txt" | grep -q "rus\.*txt") ; then
    iconv --from=UTF-16 --to=UTF-8 "$txt" > "$txt.1"
  else
...
iconv --from=WINDOWS-1251 --to=UTF-8 "$txt" > "$txt.1"
fi
sed -i 's/\r/"$txt.1"
touch -r "$txt" "$txt.1"
mv "$txt.1" "$txt"
done

%build

%install
install -m 0755 -d %{buildroot}%{_fontdir}
install -m 0644 -p *.ttf %{buildroot}%{_fontdir}
install -m 0755 -d %{buildroot}%{_fontconfig_templatedir} \
   %{buildroot}%{_fontconfig_confdir}
install -m 0644 -p %{SOURCE10} \
   %{buildroot}%{_fontconfig_templatedir}/%{fontconf}.conf
install -m 0644 -p %{SOURCE11} \
   %{buildroot}%{_fontconfig_templatedir}/%{fontconf}-caption.conf
for fconf in %{fontconf}.conf \
   %{fontconf}-caption.conf ; do
   ln -s %{_fontconfig_templatedir}/$fconf \
   %{buildroot}%{_fontconfig_confdir}/$fconf
   done

%changelog
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 20101909-3
  - Mass rebuild 2013-12-27

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 20101909-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Fri Nov 30 2012 Parag <paragn AT fedoraproject DOT org> - 20101909-1
  - Resolves:rh#882107 - source files does not match with upstream

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 20100408-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Fri Jan 13 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 20100408-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Tue Feb 08 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 20100408-2
- Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Sun Jul 25 2010 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 20100408-1
    — Update to latest upstream release
    — Switch to the OFL version

* Thu Feb 18 2010 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 20100112-3
    — Remove vestigial dep in caption subpackage

* Sat Feb 13 2010 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 20100112-2
    — Update for review

* Sun Jan 17 2010 Nicolas Mailhot <nicolas.mailhot at laposte.net>
  - 20100112-1
    — Initial release

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* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/JsonDataException.java
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* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3.jar/com/squareup/moshi/JsonScope.java
* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3.jar/com/squareup/moshi/JsonUtf8Writer.java
* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3.jar/com/squareup/moshi/JsonReader.java
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* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/JsonClass.java

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

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* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/CollectionJsonAdapter.java
* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/internal/Util.java
* /opt/cola/permits/1199756599_1630579387.69/0/moshi-1-8-0-sources-3-jar/com/squareup/moshi/JsonAdapter.java
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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------
Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------
Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

------

Oracle OpenJDK

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

* java.sun.security.ssl

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

------

OW2

The following artifacts are licensed by the OW2 Foundation according to the
terms of http://asm.ow2.org/license.html

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

------

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.588 jline-terminal 3.15.0

1.588.1 Available under license:

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Found in path(s):
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-
jar/org/jline/utils/AttributedStringBuilder.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-
jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-
jar/org/jline/terminal/impl/AbstractTerminal.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-
jar/org/jline/terminal/impl/PosixPtyTerminal.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-
jar/org/jline/terminal/impl/ExternalTerminal.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-
jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-
jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-
jar/org/jline/utils/Curses.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-
jar/org/jline/utils/AttributedStyle.java
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* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-
jar/org/jline/utils/PumpReader.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-
jar/org/jline/utils/NonBlockingPumpReader.java
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black
maroon
green
olive
navy
purple
teal
silver
grey
red
lime
yellow
blue
fuchsia
aqua
white
grey0
navyblue
darkblue
blue3
blue3a
blue1
darkgreen
deepskyblue4
deepskyblue4a
deepskyblue4b
dodgerblue3
dodgerblue2
green4
springgreen4
turquoise4
Found in path(s):
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/colors.txt
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* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/InputStreamReader.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/package-info.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1095753892_1601493761.43/0/jline-terminal-3-15-0-sources-jar/org/jline/utils/OSUtils.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_ctlc, xsb, xb
no_pad_char, npc, NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, .5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
text_width, lw, lw
text_lines, lines, li
text_lines_of_memory, lm, lm
text_magic_cookie_glitch, xmc, sg
text_max_attributes, ma, ma
text_max_colors, colors, Co
text_max_pairs, pairs, pa
text_maximum_windows, wnum, MW
text_no_color_video, ncv, NC
text_num_labels, nlab, Nl
text_padding_baud_rate, pb, pb
text_virtual_terminal, vt, vt
text_width_status_line, wsl, ws
text_bit_image_entwining, bitwin, Yo
text_bit_image_type, bitype, Yp
text_buffer_capacity, bufsz, Ya
text_buttons, btns, BT
text_dot_horz_spacing, spinh, Yc
text_dot_vert_spacing, spinv, Yb
text_max_micro_address, maddr, Yd
text_max_micro_jump, mjum, Ye
text_micro_col_size, mcs, Yf
text_micro_line_size, mls, Yg
text_number_of_pins, npins, Yh
text_output_res_char, orc, Yi
text_output_res_horz_inch, orhi, Yk
text_output_res_line, orl, Yj
text_output_res_vert_inch, orvi, Yl
text_print_rate, cps, Ym

Wide_char_size, widcs, Yn

acs_chars, acsc, ac

back_tab, cbt, bt

bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
change_scroll_region, csr, cs
char_padding, rmp, rP
clear_all_tabs, tbc, ct
clear_margins, mgc, MC
clear_screen, clear, cl
clr_bol, el1, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cufl, nd
cursor_to_II, II, II
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
enacs, enacs, eA
exter_alt_charset_mode, smacs, as
enter_am_mode, smam, SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smdc, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, smwidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
enter_protected_mode, prot, mp
enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmde, ed
exit_doublewide_mode, rwidm, ZQ
exit_insert_mode, rmir, ei
exit Italics_mode, ritm, ZR
exit_leftward_mode, rlm, ZS
exit_micro_mode, rmicm, ZT
exit_shadow_mode, rshm, ZU
exit_standout_mode, rmso, se
exit_subscript_mode, rsubm, ZV
exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kcbt, kB
key_c1, kc1, K4
key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcrt, @6
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key_ctab, kctab, kt
key_dc, kdc1, kD
key_dl, kdl1, kL
key_down, kcd1, kd
key_eic, krmir, kM
key_end, kend, @7
key_enter, kent, @8
key_eol, kel, kE
key_eos, ked, kS
key_exit, kexit, @9
key_f0, kf0, k0
key_f1, kf1, k1
key_f10, kf10, k;
key_f11, kf11, F1
key_f12, kf12, F2
key_f13, kf13, F3
key_f14, kf14, F4
key_f15, kf15, F5
key_f16, kf16, F6
key_f17, kf17, F7
key_f18, kf18, F8
key_f19, kf19, F9
key_f2, kf2, k2
key_f20, kf20, FA
key_f21, kf21, FB
key_f22, kf22, FC
key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH
key_f28, kf28, FI
key_f29, kf29, FJ
key_f3, kf3, k3
key_f30, kf30, FK
key_f31, kf31, FL
key_f32, kf32, FM
key_f33, kf33, FN
key_f34, kf34, FO
key_f35, kf35, FP
key_f36, kf36, FQ
key_f37, kf37, FR
key_f38, kf38, FS
key_f39, kf39, FT
key_f4, kf4, k4
key_f40, kf40, FU
key_f41, kf41, FV
key_f42, kf42, FW
reset_3string, rs3, r3
reset_file, rf, rf
restore_cursor, rc, rc
row_address, vpa, cv
save_cursor, sc, sc
scroll_forward, ind, sf
scroll_reverse, ri, sr
select_char_set, scs, Zj
set_attributes, sgr, sa
set_background, setb, Sb
set_bottom_margin, smgb, Zk
set_bottom_margin_parm, smgbp, Zl
set_clock, sclk, SC
set_color_pair, scp, sp
set_foreground, setf, Sf
set_left_margin, smgl, ML
set_left_margin_parm, smglp, Zm
set_right_margin, smgr, MR
set_right_margin_parm, smgrp, Zn
set_tab, hts, st
set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
start_bit_image, sbim, Zq
start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
text, docr, Zw
to_status_line, tsl, ts
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
bit_image_carriage_return, bicr, Yv
bit_image_newline, binel, Zz
bit_image_repeat, birep, Xy
char_set_names, csnm, Zy
code_set_init, csin, ci
color_names, colornm, Yw
define_bit_image_region, defbi, Yx
device_type, devt, dv
display_pc_char, dispc, S1
end_bit_image_region, endbi, Yy
enter_pc_charset_mode, smpch, S2
enter_scancode_mode, smsc, S4
exit_pc_charset_mode, rmpch, S3
exit_scancode_mode, rmsec, S5
get_mouse, getm, Gm
key_mouse, kmous, Km
mouse_info, minfo, Mi
pc_term_options, pctrm, S6
pkey_plab, pfxl, xl
req_mouse_pos, reqmp, RQ
scancode_escape, scesc, S7
set0_des_seq, s0ds, s0
set1_des_seq, s1ds, s1
set2_des_seq, s2ds, s2
set3_des_seq, s3ds, s3
set_a_background, setab, AB
set_a_foreground, setaf, AF
set_color_band, setcolor, Yz
set_lr_margin, smglr, ML
set_page_length, sline, YZ
set_tb_margin, smgtb, MT
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohtm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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1.592 bash-completion 2.1-6.el7

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try:
    from setuptools import setup
except ImportError:
    from distutils.core import setup
import os.path

def getversion(fname):
    """Get the __version__ reading the file: works both in Python 2.X and 3.X, whereas direct importing would break in Python 3.X with a syntax error""
    for line in open(fname):
        if line.startswith('__version__ '):
            return eval(line[13:])
    raise NameError('Missing __version__ in decorator.py')

VERSION = getversion(os.path.join(os.path.dirname(__file__), 'src/decorator.py'))

if __name__ == '__main__':
    setup(name='decorator',
          version=VERSION,
          description='Better living through Python with decorators',
          long_description=open('README.txt').read(),
          author='Michele Simionato',
          author_email='michele.simionato@gmail.com',
          url='http://pypi.python.org/pypi/decorator',
          license='BSD License',
          package_dir = {'': 'src'},
          py_modules = ['decorator'],
          keywords="decorators generic utility",
          platforms=['All'],
          classifiers=['Development Status :: 5 - Production/Stable',
                      'Intended Audience :: Developers',
                      'License :: OSI Approved :: BSD License',
                      'Natural Language :: English',
                      'Operating System :: OS Independent',
                      'Programming Language :: Python',
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                      'Topic :: Utilities'],
          use_2to3=True,
          zip_safe=False)

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Decorator module
================
Installation
-------------

If you are lazy, just perform

$ easy_install decorator

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute project.

If you prefer to install the full distribution from source, including the documentation, download the tarball, unpack it and run

$ python setup.py install

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing
--------

For Python 2.5, 2.6, 2.7 run

$ python documentation.py

for Python 3.X run

$ python documentation3.py

You will see a few innocuous errors with Python 2.5, because some inner details such as the introduction of the ArgSpec namedtuple and Thread.__repr__ changed. You may safely ignore them.

You cannot run the tests in Python 2.4, since there is a test using the with statement, but the decorator module is expected to work anyway (it has been used in production with Python 2.4 for years). My plan is to keep supporting all Python versions >= 2.4 in the core module, but I will keep the documentation and the tests updated only for the latest Python versions in both the 2.X and 3.X branches.
Finally, notice that you may run into trouble if in your system there is an older version of the decorator module; in such a case remove the old version.

Documentation
--------------

There are various versions of the documentation:

- `HTML version (Python 2)`_
- `PDF version (Python 2)`_
- `HTML version (Python 3)`_
- `PDF version (Python 3)`_


Repository
-----------

The project is hosted on GoogleCode as a Mercurial repository. You can look at the source here:

http://code.google.com/p/micheles/source/browse/#hg%2Fdecorator

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Metadata-Version: 1.1
Name: decorator
Version: 3.4.0
Summary: Better living through Python with decorators
Home-page: http://pypi.python.org/pypi/decorator
Author: Michele Simionato
Author-email: michele.simionato@gmail.com
License: BSD License
Description: Decorator module

:Author: Michele Simionato
:E-mail: michele.simionato@gmail.com
:Requires: Python 2.4+
Installation
-------------

If you are lazy, just perform

```
$ easy_install decorator
```

which will install just the module on your system. Notice that Python 3 requires the easy_install version of the distribute project.

If you prefer to install the full distribution from source, including the documentation, download the tarball, unpack it and run

```
$ python setup.py install
```

in the main directory, possibly as superuser.

.. _tarball: http://pypi.python.org/pypi/decorator
.. _distribute: http://packages.python.org/distribute/

Testing
--------

For Python 2.5, 2.6, 2.7 run

```
$ python documentation.py
```

for Python 3.X run

```
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```

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Keywords: decorators generic utility
Platform: All
Classifier: Development Status :: 5 - Production/Stable
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Classifier: Natural Language :: English
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
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Classifier: Topic :: Software Development :: Libraries
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Found in path(s):

1.595 webkitgtk3 2.4.11-2.el7

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

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1.611 libaio 0.3.109-13.el7

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In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

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

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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

Preamble

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

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

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based
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stating that you changed the files and the date of any change.

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charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If
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and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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Version 1.1 - 26 February 2007

PREAMBLE

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```java
/**
 * <p>Encodes and decodes to and from Base64 notation.</p>
 * <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
 * <p>Example:</p>
 * <code>String encoded = Base64.encode( myByteArray );</code>
 * <code>byte[] myByteArray = Base64.decode( encoded );</code>
 * <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass various pieces of information to the encoder. In the "higher level" methods such as encodeBytes( bytes, options ) the options parameter can be used to indicate such things as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered dialects.</p>
 * Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>, Section 2.1, implementations should not add line feeds unless explicitly told to do so. I've got Base64 set to this behavior now, although earlier versions broke lines by default.</p>
 * The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:</p>
 * <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>
 * to compress the data before encoding it and then making the output have newline characters.</p>
 * Also...</p>
 * Change Log:
 */
```
* <ul>
* <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the
* value 01111111, which is an invalid base 64 character but should not
* throw an ArrayIndexOutOfBoundsException either. Led to discovery of
* mishandling (or potential for better handling) of other bad input
* characters. You should now get an IOException if you try decoding
* something that has bad characters in it.</li>
* <li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
* string ended in the last column; the buffer was not properly shrunk and
* contained an extra (null) byte that made it into the string.</li>
* <li>v2.3.5 - Fixed bug in \{@link #encodeFromFile\} where estimated buffer size
* was wrong for files of size 31, 34, and 37 bytes.</li>
* <li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
* the Base64.OutputStream closed the Base64 encoding (by padding with equals
* signs) too soon. Also added an option to suppress the automatic decoding
* of gzipped streams. Also added experimental support for specifying a
* class loader when using the
* \{@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)\}
* method.</li>
* <li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
* footprint with its CharEncoders and so forth. Fixed some javadocs that were
* inconsistent. Removed imports and specified things like java.io.IOException
* explicitly inline.</li>
* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
* final encoded data will be so that the code doesn't have to create two output
* arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using the \{@link #encodeBytesToBytes(byte[])\} family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff).</li>
* <li>v2.3.1 - Added \{@link #encodeBytesToBytes(byte[], int, int, int)\} and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.</li>
* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:</li>
* <ul>
* <li>Does not break lines, by default.</li>
* <li>Throws exceptions instead of returning null values.</li>
* (especially those that may permit the GZIP option) use IO streams, there
* is a possibility of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOException
* rather than return null if ever there's an error. I think this is more
* appropriate, though it will require some changes to your code. Sorry,
* it should have been done this way to begin with.</li>
* <li>Removed all references to System.out, System.err, and the like.</li>
* </ul>
* Shame on me. All I can say is sorry they were ever there.

* <em>Throws NullPointerExceptions and IllegalArgumentExceptions</em> as needed such as when passed arrays are null or offsets are invalid.

* Cleaned up as much javadoc as I could to avoid any javadoc warnings.

* This was especially annoying before for people who were thorough in their own projects and then had gobs of javadoc warnings on this file.

* ul
* li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~<lt; 40 bytes).
* li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
  * ol
  * li>The default is RFC3548 format.
  * li>Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548.
  * li>http://www.faqs.org/rfcs/rfc3548.html
  * li>Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfc1940.html
  * /ol
* li>Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new Base64 dialects.
* /li>
* /p
* li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.
* li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).
* li>Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.
* li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (*int* OR *tt* s that you "OR" together).
* li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using *tt* is being compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (*int* OR *tt* s that you "OR" together).
* li>v1.5 - Output stream passes on flush() command but doesn't do anything itself. This helps when using GZIP streams.
* li>v1.4 - Added the ability to GZip-compress objects before encoding them.
* li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream...
* where last buffer being read, if not completely full, was not returned.</li>
*<li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
*<li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>
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* periodically to check for updates or to contribute improvements.
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* @author Robert Harder
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* @version 2.3.7
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1023216565_1591382474.96/0/resteasy-jaxrs-2-2-3-ga-sources-jar/org/jboss/resteasy/util/Base64.java

1.628 systemd 219-67.el7_7.2

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1.631 gawk 4.0.2

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of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

a) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by the
Corresponding Source fixed on a durable physical medium
customarily used for software interchange.

b) Convey the object code in, or embodied in, a physical product
(including a physical distribution medium), accompanied by a
written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

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procedures, authorization keys, or other information required to install
and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source. The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information. But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed. Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
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unpacking, reading or copying.

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Version 2, June 1991

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

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

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

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

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

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

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

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

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

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(which use some of those functions and data) to form executables.

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"Source code“ for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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identifiable sections of that work are not derived from the Library,
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.634 jradius-extended 1.1.6
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1.648 gnome-calculator 3.28.2-1.el7
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There, I hope that clears things up for you.

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(So hat z.B. eine Funktion zum Berechnen von Quadratwurzeln einen von der Anwendung unabhängigen genau definierten Zweck. Deshalb verlangt 2.Absatz d, dass jede von der Anwendung bereitgestellte Funktion oder von dieser Funktion benutzte Tabelle optional sein muss: Auch wenn die Anwendung sie nicht bereitstellt, muss die Quadratwurzelfunktion trotzdem noch Quadratwurzeln berechnen.)

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<sect2 id="sect4" label="4">
<title>Paragraph 4</title>

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<para>Wenn die Weitergabe von Objektcode durch das Angebot eines Zugangs zum Kopienabzug von einem angegebenen Ort erfolgt, dann erfüllt das Angebot eines gleichwertigen Zugangs zum Kopieren des Quelltextes von demselben Ort die Anforderung, auch den Quelltext weiterzugeben, obwohl Dritte nicht verpflichtet sind, den Quelltext zusammen mit dem Objektcode zu kopieren.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Paragraph 5</title>

<para>Ein Programm, das nichts von irgendeinem Teil der Bibliothek Abgeleitetes enthält, aber darauf ausgelegt ist, mit der Bibliothek zusammenzuarbeiten, indem es mit ihr compiliert oder gelinkt wird, nennt man ein Werk, das die Bibliothek nutzt. Solch ein Werk, fr sich allein genommen, ist kein von der Bibliothek abgeleitetes Werk und fällt daher nicht unter diese Lizenz. Wird jedoch ein Werk, das die Bibliothek nutzt, mit der Bibliothek gelinkt, so entsteht ein ausführbares Programm, das ein von der Bibliothek abgeleitetes Werk (weil es Teile der Bibliothek enthält) und kein Werk, das die Bibliothek nutzt ist. Das ausführbare Programm fällt daher unter diese Lizenz.</para>

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<para>Wenn solch eine Objektdatei nur numerische Parameter, Datenstruktur-Layouts und Zugriffsfunktionen sowie kleine Makros und kleine Inlinefunktionen (zehn Zeilen lang oder krzer) benutzt, dann unterliegt die Benutzung der Objektdatei keinen Beschränkungen, ohne Rücksicht darauf, ob es rechtlich gesehen ein abgeleitetes Werk ist. (Ausführbare Programme, welche diesen Objektcode plus Teile der Bibliothek enthalten, fallen jedoch..."
weiterhin unter die Bestimmungen von Paragraph 6).</para>

<p>Als Ausnahme von den Bestimmungen der vorstehenden fünf Paragraphen dürfen Sie auch ein Werk, das die Bibliothek nutzt, mit der Bibliothek kombinieren oder linken, um ein Werk zu erzeugen, das Teile der Bibliothek enthält, und dieses unter Bedingungen ihrer eigenen Wahl weitergeben, sofern diese Bedingungen Bearbeitungen für den eigenen Gebrauch des Empfängers und ein Rekilitationen (reverse engineering) zum Beheben von Mängeln solcher Bearbeitungen gestatten.</p>

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<li>Liefern Sie das Werk zusammen mit dem vollständig zugehörigen maschinenlesbaren Quelltext der Bibliothek aus, und zwar einschließlich jeglicher in dem Werk angewandteränderungen (wobei dessen Weitergabe gemäß den Bedingungen der Paragraphen Paragraph 1 und Paragraph 2 erfolgen muss); und wenn das Werk ein ausführbares, mit der Bibliothek gekoppeltes Programm ist, dann liefern Sie es zusammen mit dem vollständig zugehörigen maschinenlesbaren Werk, das die Bibliothek nutzt, in Form von Objektkode und/oder Quelltext, so dass der Benutzer die Bibliothek verändern und dann erneut linken kann, um ein verändertes ausführbares Programm zu erzeugen, das die veränderte Bibliothek enthält. (Es versteht sich, dass der Benutzer, der die Inhalte von Definitionsdateien in der veränderten Bibliothek verändert, nicht notwendigerweise in der Lage sein wird, die Anwendung neu zu compilieren, um die veränderten Definitionen zu benutzen.)</li>


<li>Liefern Sie das Werk zusammen mit einem mindestens drei Jahre lang gültigen schriftlichen Angebot, demselben Benutzer die oben in Paragraph 6, Absatz (a) genannten Materialien zu Kosten, welche die reinen Weitergabekosten nicht berühren, zur Verfügung zu stellen.</li>

</orderedlist>
Wenn die Weitergabe des Werks dadurch erfolgt, dass die Möglichkeit des Abrufens einer Kopie von einem bestimmten Ort angeboten wird, bieten Sie gleichwertigen Zugang zum Kopieren der oben angegebenen Materialien von dem gleichen Ort an.

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Fr ein ausführbares Programm muss die verlangte Form des Werks, das die Bibliothek nutzt, alle Daten und Hilfsprogramme mit einschließen, die man braucht, um daraus das ausführbare Programm zu reproduzieren. Doch gilt eine spezielle Ausnahme: Die weiterzugebenden Materialien brauchen nicht alles das zu enthalten, was normalerweise (in Quelltext-Form oder in binärer Form) mit den Hauptbestandteilen (Compiler, Kern usw.) des Betriebssystems, auf denen das ausführbare Programm laufen, weitergegeben wird, es sei denn, das ausführbare Programm gehört selbst zu diesem Hauptbestandteil.

Es kann vorkommen, dass diese Anforderung im Widerspruch zu Lizenzbeschränkungen anderer, proprietärer Bibliotheken steht, die normalerweise nicht zum Betriebssystem gehören. Ein solcher Widerspruch bedeutet, dass Sie nicht gleichzeitig jene proprietären Bibliotheken und die vorliegende Bibliothek zusammen in einem ausführbaren Programm, das Sie weitergeben, verwenden dürfen.

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Egy nyomtatott knyv esetben a &lt;quote&gt;Cmlap&lt;/quote&gt; megt, a cmlapot, illetve brmely azt kiesztott ov oldalt jelli, amely a jelen Licencben eltô cmlaptartalom kifejezéhez szkőszes. Az olyan formátum munkknál, amelyek nem rendelkeznek effajta cmlappal, a &lt;quote&gt;Cmlap&lt;/quote&gt; a munka cmnek legjobban kiemelt vitozathoz legkzelebb es, m a szeg trz megel megel szegvezetek jelli.
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Megkrjnk, mde nem ktelezzk nt arra, hogy minden esetben, amikor nagyobb plátnyzm terjesztse kezd, mar jval ez megelzen ipjen kapcsolatba a link linkend="fdl-document">Dokumentum</link> szerzivel, annak rdekben, hogy megkaphassza tlk a Dokumentum esetleges jabb vltozatt.

MDOSTSOK

neknak lehetsge van a link linkend="fdl-document">Dokumentum</link> link linkend="fdl-modified">Mdostott</link> Vltozatnak sokszorostsa s terjesztse a link linkend="fdl-section2">2.</link> s link linkend="fdl-section3">3.</link> szakaszok fenti rendelkezsei alapin, feltve, hogy a Mdostott Vltozatot kizrlag jelen Licenc feltteleivel sszhangban teszi kzz, ahol a Mdostott Vltozat a Dokumentum szerept tlti be, ezttal lehetőség biztosztva annak terjesztse s mdostrs brkinek, aki csak hozzjut egy plánnyhoz. Mindezen fell, a Mdostott Vltozat az albbi kvetelmnyeknek is meg kell, hogy feleljen:

Cmlapon link linkend="fdl-document">Dokumentum</link> (s ha van, a bortkon) tntessen fel egy a link linkend="fdl-document">Dokumentum</link>, illetve brmely korbbi vltozattl elt crmet (amelyeknek, ha vannak, a Dokumentum Elzmnyek szakaszban kell szerepelnik). Egy korbbi vltozat crmt csak akkor hasznhatja, ha annak szerze engedlyzte azt.

Cmlapon szerzkknt sorolja fel a link linkend="fdl-modified">Mdostott Vltozatban</link> elvgtott vltozatsokr felels termesztes vagy jogi szemlyeket, tovbb a link linkend="fdl-document">Dokumentum</link> f szerzi kzl legkevesebb tt (vagy mindet, ha tl kevesebben vannak) kivve, ha ezen felttel all k nt felmentik.

Cmlapon a link linkend="fdl-modified">Mdostott Vltozat</link> kzztetlrt felels szemlyt ttesse fel kiadknt.

Cmlapon a link linkend="fdl-modified">Mdostott Vltozat</link> sszes szerzi jogi figyelmeztetst hagyja rintetlenl.

Sajt mdostsaira vonatkozoz is tegyen kzz egy szerzi jogi megjegyzst, a tbbi ilyen jelleg figyelmeztets mellett.
Rtgtn a szerzi jogi figyelmeztetsek a jelen Licenci felhasznlat a jelen Licenc feltteleinek megfelelen.

A fenti kéziratban hagyja rintetlenl a Nem Vltoztathat szakaszt, illetve a Nnm Vltoztathat szakaszt, illetve a dokumentum licencben elrt teljes listjt.

Mellkelje a jelen Licenc egy eredeti példányt.

Az Elzmnyek elnevez szakaszt, illetve annak cmt szintn hagyja rintetlenl, emellett adjon hozz egy j elemet, amely minimilisan tartalmazza a Mdostott Vltozat cmt, kiadsi vt, tovbb a szerz, illetve a kiad nevt, a Cmlapon lthatkhoz hasonlan. Amennyiben a licencben nem tartalmaz semmifile szakaszt, gy hozzon ltre egyet, amely tartalmazza a dokumentum cmt, kiadsi vt, tovbb a szerz, illetve a kiad nevt, a Cmlapon lthatkhoz hasonlan; majd ezt kettv adjon hozz egy j, a Mdostott Vltozatra vonatkoz elemet, a fentiekkkel szszhangban.

Ne tegyen vltoztatokat a megadott ltsz példny pldnny nyilvnos hlzati elrhetsgt (ha van ilyen) illeten, vagy hasonlkpp, a dokumentum alapjul szolg korbbi vltozatok hlzati helyre vonatkozan. Ezek az Elzmnyek szakaszb is szerepelhetnek. Csak abban az esetben hagyhatja el egyes korbbi vltozatok hlzati elrhetsgt, ha azok legkevesebb nyvvel a dokumentum elt ksztekek, vagy ha maga az alkot engedlyezte azt.

Brmely QuoteKsznetnyilvnts cmt, vagy QuoteAjnlsek cmt hagyja rintetlenl, tovbb gondoskodjon arrl, hogy azok tartalma s hangvtele az egyes hozzjrulkat, s/vagy az ajnlsek illeten vltozatlan maradjon.

A szakaszok szmozsa, vagy brmely azzal egyenrt jells nem tartozik a szakaszcmek kt.

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 46280
Trljan minden "Hozzjruls" elnevez szakaszt. Effajta szakaszok nem kpehetik rszt a <link linkend="fdl-modified">Mdostott Vltozatnak</link>.

Ne nevezzen t semmilyen ltez szakaszt "Hozzjruls" elnevezre, vagy olyasmire, amely emben a <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszokkal tkzhet.

Ha a <link linkend="fdl-modified">Mdostott Vltozat</link> j bevezet szakaszokat tartalmaz, vagy olyan fggelkeket, melyek <link linkend="fdl-secondary">Msodlagos szakasznak</link> minelnk, m nem tartalmaznak a Dokumentumbl szrmaz anyagot, abban az esetben, beltsa szerint, e szakaszok nmelyikt, vagy akr az szszet besorolhatja nem vltottathatknt. Ehhez nem kell mst tennie, mint felsorolni a szban fog cmeket a <link linkend="fdl-invariant">Mdostott Vltozat</link> licencnek Nem Vltoztathat szakaszok listjb. E cmeknek hatrozottan el kell klnlnie minden egyb szakaszcmtl.

Hozzjruls szakaszt csak akkor adhat a Dokumentumhoz, ha az kizrlag a <link linkend="fdl-modified">Mdostott Vltozatra</link> utal megjegyzseket tartalmaz pl dul msok recenziira vonatkozkan, vagy hogy egy szervezet a szveg egy szabvny mrvad defincjaknt ismerte el.

A <link linkend="fdl-cover-texts">Cmlapszveg</link> gyannt egy legfeljebb t szbl szvegrszt adhat meg, a <link linkend="fdl-cover-texts">Htlapszveg</link> esetn pedig 25 szt fzhet a <link linkend="fdl-modified">Mdostott Vltozatnak</link> cmek vel. Bortszvegeinek a <link linkend="fdl-cover-texts">Bgere</link> Brmely termzetes vagy jogi szeml csak s kizrlag egy Cmlapszveg s egy Htlapszveg rszt adhat (akr kzewtn keresztl) a Dokumentumhoz. Ha a <link linkend="fdl-document">Dokumentum</link> mr rendelkezik Bortszvegvel ehhez a vltothoz, mert korban n adta hozz, vagy az a szervezet, amelynek nevben n fellp, akkor nem adhat hozz msik Bortszveget; a rgit mindazonltal lecserlt, abban az esetben, ha az azt hozzad korbbi kiad egytrelmen engedylezi.

A kzs <link linkend="fdl-document">Dokumentum</link> szerzi s kiadi ezzel a Licenccel nem jrlnak hozz nevk felhasznlnsra, a <link linkend="fdl-modified">Mdostott Vltozat</link> npszerstsre, s nem tmogatjk azt.

A kombinlt munknak a jelen Licenc mindssze egy pldnyt kell tartalmaznia, az egymssal tfdsben lv <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszok pedig kivlthatak egy szegzett pldnyal. Amennyiben bbb Nem Vltoztathat szakasz szerepelne ugyanazon cmnel, m eltr tartalommal, gy alaktsa t minden egyes szakasz cm olyan mdon, hogy mg rja zrbel az eredeti szerz s kiad nevt (ha ismeri) vagy egy egyedi sorszmot. Ha szksges, a Nem Vltoztathat szakaszok cmeivel vgeze el a fenti mdostoskot a kombinlt munka licencben.
A kombinált munkban az eredeti dokumentumok sszes "Elzmnyek" elnevezés szakasz szze kell olvasztania, miáltal egy szefgg "Elzmnyek" elnevezés szakasz jn ltre; hasonlkpp kell eljrnia a "Ksznetnyilvnts" elnevezés, illetve az "Ajnsok" elnevezés szakaszok tekintetben. Ugyanakkor minden "Elzmnyek" "Hozzjruls" elnevezés szakasz trlnie kell.

DOKUMENTUMGYJTEMNYEK

A <link linkend="fdl-document">Dokumentumbl</link>, illetve brmely egyb, a jelen Licenc hatlya alatt kiadott dokumentumbg gyjtemnyt ltrehozni, s az egyes dokumentumokban tallhat licenceket egyetlen pldnnyal kivltani, feltve, hogy a gyjtemnyben szerepl sszes dokumentum esetn minden ms tekintetben kveti a jelen Licenc feltteleit azok sz szerinti sokszorostsra vonatkozan.

Tetszse szerint ki is emelhet egy meghatrozott dokumentumot a gyjtemnybl, tovbb terjesztheti azt jelen Licenc felttelei alapjn, feltve, hogy a szban forg dokumentumhoz mellkeli a jelen Licenc egy pldnyt, s minden egyb tekintetben betartja jelen Licenc elrsait a dokumentum sz szerinti sokszorostsra vonatkozan.

A <link linkend="fdl-document">Dokumentum</link> s annak szrmazkainak klnll, vagy fggetlen dokumentumokkal, illetve munkkkal val sszfse egy kzs trolsi, vagy terjrszti egysgen "gyjtemnynek" nevezend, amennyiben az sszfse eredmnyekppen rnyns szerzi jogi felttelek nem korltozzk nagyobb mrtkben az sszfse felhasznlnak jogait, mint amennyire azt az egyes szetvek teszik. Amikor a Dokumentum rsze egy gyjtemnynek, akkor a jelen Licenc nem rnyns a gyjtemny azon rszeire, amelyek nem a Dokumentumbg szrmaztatott munk. Amennyiben a <link linkend="fdl-section3">3. szakasz</link> <link linkend="fdl-cover-texts">Bortszvegekre</link> vonatkoz rendelkezsei alkalmazhatk a Dokumentum e pldnaira, s a Dokumentum a teljes szszegzsnek kevesebb, mint felt teszi ki, gy a Dokumentum Bortszvegeit olyan mdon is el lehet helyzni a bortkon, hogy azok csak magt a Dokumentumot fogik kzre, vagy a bortknak megfelel elektronikus formban, amennyiben a Dokumentum elektronikus formban tallhat. Minden ms esetben a teljes sszegzs bortlapjain kell feltnteti a fenti szvegeket.

FORDTS

A fordts egyfajta mdostsnak tekinthet, gy a <link linkend="fdl-document">Dokumentum</link> lefordott pldnayai a <link linkend="fdl-section4">4. szakasz</link> rendelkezsei alapjn terjeszthetik. A <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszok lefordotthoz kln engedlyt kell krni a szerzi jogtulajdonost, mindazonnal kztethetk a lefordott viltozatok is, ha az eredeti Nem Vltoztathat szakaszokat is belefoglalja a munkba. E Licenc lefordtsra, valamint minden, a Dokumentumhoz tartoz Licencmellkletre, illetve az esetleges Garancik Kizsaira ugyanek a felttelek rnynyek, vagyis a lefordott viltozatok csak akkor jelenhetnek meg, ha mellette ott vannak az eredeti, angol nyelv Licenc, a mellkletek s kzsok szervei is. Amennyiben eltrs mutatkozn az eredeti viltozatok, illetve a fordts kzt, gy a Licenc, a mellkletek s kzsok angol nyelv eredeti tekintend mrvadnak.

FORDTSS

A fords egyfajta mdostsnak tekinthet, gy a <link linkend="fdl-document">Dokumentum</link> lefordott pldnyaw a <link linkend="fdl-section4">4. szakasz</link> rendelkezsei alapjn terjeszthetik. A <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszok lefordotthoz kln engedlyt kell krni a szerzi jogtulajdonost, mindazonnal kztethetk a lefordott viltozatok is, ha az eredeti Nem Vltoztathat szakaszokat is belefoglalja a munkba. E Licenc lefordtsra, valamint minden, a Dokumentumhoz tartoz Licencmellkletre, illetve az esetleges Garancik Kizsaira ugyanek a felttelek rnynyek, vagyis a lefordott viltozatok csak akkor jelenhetnek meg, ha mellette ott vannak az eredeti, angol nyelv Licenc, a mellkletek s kzsok szervei is. Amennyiben eltrs mutatkozn az eredeti viltozatok, illetve a fordts kzt, gy a Licenc, a mellkletek s kzsok angol nyelv eredeti tekintend mrvadnak.
MEGSZNS

A jelen Licencben egyértelmen kiírtak kereteken kívül tílos a <link linkend="fdl-document">Dokumentum</link> brüminen sokszorostsa, mdostsa, továbblicencelse, vagy terjesztse. Minden ezzel szembeni sokszorostsi, mdostsi, továbblicencelsi, vagy terjesztksi ksrlet a jelen Licencben meghatározott jogok automatikus megsznt vonja maga utn. Ugyanakkor azok a felek, akik nn kereszt jutottak msolathoz vagy jogosultsgokhoz, nem veszik el azokat, amg maradktalanul betartj e Licenc elrsait.</para>

<title>MEGSZNS</title>

<title>JELEN LICENC JVBENI JAVTSAI</title>


<title>SZAVTAS</title>

A Licenc minden vltozata egyedi verziszmmal van elltva. Ha a <link linkend="fdl-document">Dokumentum</link> jelen Licenc egy konkrt, szmozott verzjira <quote>vagy brmely jabb verzira</quote> hivatkozik, gy nnek a szban fgg vltzat, vagy brmely jabb a Free Software Foundation Ital (nem vztaknt) kiadott verzi feltteleinek kvetsre lehetsge van. Ha a Dokumentum nem ad meg semmilyen verziszmot, gy brmely, a Free Software Foundation Ital valaha (nem vztaknt) kiadott vltzat megfelel.</para>

<title>ENGEDLYT</title>

Ha a jelen Licencet egy n Ital rt dokumentumban kvnja hasznlni, akkor mellkelje hozz a Licenc egy pldnnyt, tovbb vezesse r az albbi szerzi jogi s licenckzlemnyeket, rgtn a cmlapot kveten:</para>

<blockquote>
Copyright (C) V AZ N NEVE.</blockquote>

Engedlyt adunk nnek a jelen dokumentum sokszorostsr, terjesztstre s/vagy mdostra a Free Software Foundation Ital kiadott GNU FDL 1.1-es, vagy brmely azt kvet verzjainak felttelei alapjn. Nincs <link linkend="fdl-invariant">Nem vltzathat</link> szakasz, nincs <link linkend="fdl-cover-texts">Cmlapszveg</link>, nincs <link linkend="fdl-cover-texts">Htlapszveg</link> A jelen licenc egy pldnnyt a <quote>GNU Free Documentation License</quote> elnevez szakszal tallja.</para>

<title>ENGEDLYT</title>

Amennyiben nincsenek <link linkend="fdl-invariant">Nem vltzathat szakaszok</link>, akkor ahelyett a rsz helyt, hogy melyek nem vltzathatat, rja azt, hogy <quote>Nem tartalmaz Nem vltzathat szakaszokat</quote>. Amennyiben nincsenek <link linkend="fdl-cover-texts">Cmlapszvegek</link>, akkor <quote>Cmlapszveg felsoruja</quote> helyett, rja azt, hogy <quote>Cmlapszveget nem tartalmaz</quote>; hasonlan jrjon el a <link linkend="fdl-cover-texts">Htlapszveg</link> esetben.</para>

Amennyiben a dokumentum nem egytrelm programkpdlkat is tartalmaz, gy azt javasoljuk, hogy e pldkat egy vlasztsa szerinti szabad szoftver licenc alatt kzlje mint pldul a <ulink type="http" url="http://www.gnu.org/copyleft/gpl.html"> GNU General Public License</ulink>, hogy lehet tegye a kdk szabad szoftverekben val alkalmazst.</para>

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A jelen licencdokumentumot brki szabadon lemsolhatja s a pontos mso1atait terjesztheti, de a mdostsa tilos.

A legtbb szoftver licencei azzal a szandkkal kszltek, hogy minl kevesebb lehetseget adjanak a szoftver megvltottatrsa s terjesztsre. Ezzel szemben a GNU GPL clja, hogy garantla a szabad szoftver msolsnak s terjesztsnek szabadsgt, eztlt biztostva a szoftver szabad felhasznlhatsgt minden felhasznlszmra.

A legtbb szoftver licencei azzal a szandkkal kszltek, hogy minl kevesebb lehetseget adjanak a szoftver megvltottatrsa s terjesztsre. Ezzel szemben a GNU GPL clja, hogy garantla a szabad szoftver msolsnak s terjesztsnek szabadsgt, eztlt biztostva a szoftver szabad felhasznlhatsgt minden felhasznlszmra.
A legtöbb szoftver licencei azzal a szándékmal szóló, hogy minél kevesebb lehetőséget adjanak a szoftver megvilágítotatásra és terjesztésre. Ezzel szemben a GNU GPL clja, hogy garantálja a szabad szoftver módosításait és terjesztését minden felhasználó számára. A GPL szabályai vonatkoznak a Free Software Foundation legtöbb szoftverre, illetve minden olyan programra, melynek szerzője gyárt, hogy ezt használja a szerző jog megjelölésekor. (A Free Software Foundation egyes szoftverei a GNU LGPL vonatkozásban.) Brízi használhatja a programjaiban a GPL-t a szerző jogi megjegyzésnél.

A szabad szoftver megjellel nem jelenti azt, hogy a szoftvernek nem lehet rajta. A GPL licencei clja, hogy garantálja a szabad szoftver módosításait és terjesztését (s e szolgáltatás akár díj felszámítva), a forrás kod elérhetőségét, hogy brízi szabadon módosítsa a szoftvert, vagy felhasználja a rszeit j szabad programokban; s hogy módosításokat rendelhet az ezt a lehetőséget.

A szerző jogainak védelmén korlátosokat kell hozni, amelyek megtiltják, hogy brízi megtagadjassa ezeket a jogokat módosítási esetekben, vagy ezekről való lemondásra kénytelenben brízi módosításokat. Ezek a megszorítások bizonyos felelősséget jelentenek azok számára, akik a szoftver módosítják terjesztik vagy módosítják.

A jogok védelmében korlátosokat kell hozni: a szabad szoftverre vonatkozó jogok védelmében az eredeti szerző jogai és a jelen licence biztosítja az eredeti szerző jogait, illetve illetve a szabad szoftver forrását. Az egyes szerzők a maguk védelme elvett, hogy mindenki megértsse: a jelen szabad szoftverre nincs jogsértés. Ha a szoftver módosított, akkor mindenki, aki a módosított változat kapja, tudnia kell, hogy az nem az eredeti, gyártott és legalábbis a megfelelően biztosított tisztviselőknek sem lehet a jog alapját az eredeti szerző jogai szerint.
Vgl, a szabad szoftver ltt llandan fenyegetik a szoftverszabadalmak. El szeretnünk kerlni annak veszlyt, hogy a szabad program terjeszti szabadalmat jegyezhessenek be r, ezáltal sajt szellemi tulajdonságval kpev tegyk a programot. Ennek megelzsehez tisztizni kvnjuk: szabadalom szabad szoftverrel kapcsolatban csak mindenki itali szabad hasznalatra jegyezhet be, vagy egyáltaln nem jegyezhet be.

A msolsra, terjesztsre, mdostsra vonatkoz pontos szablyosk s felttelek:

A MSOLSRA, TERJESZTSRE S MDOSTSRA VONATKOZ FELTTELEK S KIKTSEK

0. szakasz

Ez a licenc minden olyan programra vagy munkra vonatkozok, amelynek a szerzi jogi megjegyzesben a jog tulajdonosa a kvetkez szveget helyezte el: a GPL-ben foglaltak alapjn terjeszthet. Az albbiakban a Program kifejez brmely ilyen programra vagy munkra vonatkozok, a Programon alapul munka pedig magt a programot vagy egy szerzi joggal vdett munkt jelenti: vagyis olyan munkt, amely tartalmazza a programot vagy annak egy rszlett, mdosttban vagy mdostatlanul s/vagy ms nyelvre fordva. (Az albbiakban a fordts minden egyb megkts nlkl beletartozik a Program munks a Programon alapul munka egy rszlett (fggetlenl attl, hogy ez a Program futtatsval jtt-e ltre). Ez teht a Program mnds fgg.)

1. szakasz

A Program forrskdja mdosts nlkl msolhat s brmely adathordzn terjeszthet, feltve, hogy minden egyes pldnyon pontosan szerepel a megfelel szerzi jogi megjegyzs, illetve a garancia elutas; rintetlenl kell hagyni minden erre a szablyozsra s a garancia teljes hinya utal szveget s a jelen licencedokumentumot is el kell juttatni mindazokhoz, akik a Programot kapjik.

2. szakasz

A Program vagy annak egy rsze mdosthat, gy a Programon alapul munka jn ltre. A mdosts ezutn az mdosts frd s/ vagy ms nyelvre fordva. (Az albbiakban a fordts minden egyb megkts nlkl beletartozik a Program munks.)
Minden olyan munkt, amely rszben vagy egzszben tartalmazza a Programot vagy a Programon alapul, olyan szabályokkal kell kiadni vagy terjeszteni, hogy annak hasznlati joga harmadik szemly rszre licencdjmentesen hozzáférhet legyen, a jelen dokumentumban tallhat feltelleknek megfelelően.</para>

Ha a mdostott Program interaktvan olvassa a parancsokat futs kzbenn, akkor gy kell elkszteni, hogy a megszokott mdon trtn indtskor megjelentsen egy zenetet a megfelel szerzi jogi megjegyzssel s a garancia hinyra utal kzlssel (vagy ppen azzal az informcival, hogy miknt juthat valaki garancihoz), illetve azzal az informcival, hogy brki terjesztheti a Programot a jelen feltelleknek megfelelően, s arra is utalst kell tenni, hogy a felhasznlnik miknt tekintheti meg a licenc egy plldnyt. <note>
Kivitel:<title>
ha a Program interaktv ugyan, de nem jelent meg hasonl zenetet, akkor a Programon alapul munknak sem kell ez tennie.</para>
</note></para>

Ezek a feltellek a mdostott munkra, mint egszre vonatkoznak. Ha a munka azonosthat rszei nem a Programon alapulnak s fgetlen munkkknt elknnt azonosthat, akkor ez a szablyozs nem vonatkozik ezekre a rszekre, ha azok kln munkaknt kerlek terjesztsre. Viszont, ha ugyanez a rsz az egz szzeknt kerl terjesztsre, amely a Programon alapul munka, akkor az egz terjesztse csak a jelen dokumentum alapjn lehetsges, amely ebben az esetben a jogokat minden egyes felhasznln szmra kiterjeszti az egzszre tekintet nkl arra, hogy melyik rsz ki rta.</para>

E szvegrsznek teht nem az a clja, hogy msok jogait elvegye vagy korltozza a kizrlag sajt maga ltal rt munkkr; a cl az, hogy a jogok gyakorlsa szablyozva legyen a Programon alapul illetve a gyjemnmes munkk terjesztse esetben.</para>

Ezenkvl ms munkknak, amelyek nem a Programon alapulnak, a Programmal (vagy a Programon alapul munkval) ksz adathordozn vagy adattroln szerepeltets nem jelenti a jelen szablyoz rnyessgt azokra is.</para>

A Program (vagy a Programon alapul munka a <link linkend="sect2">2. szakasz</link> megfelelően) msolhat s terjeszthet trykd vagy vgrehajthat kd formjban az <link linkend="sect1">1. szakasz</link> s a <link linkend="sect2">2. szakasz</link> foglaltak szerint, amennyiben az albbi feltellek is teljesnek: <orderedlist numeration="loweralpha">
</orderedlist>

A teljes, gp ltal rtelmezhet forrskd ksr az anyagot, amelynek terjesztse az <link linkend="sect1">1. szakasz</link> s a <link linkend="sect2">2. szakasz</link> foglaltak szerint trtnk, jellemzen szoftverterjesztsre hasznlt adathordozn; vagy, <para>
</para>

A legalbb hrom vre szlan rsban vllalja, hogy brmely kls szemlynek rendelkezzsre ll a teljes gp ltal rtelmezhet forrskd, a fizikai tovbbst fedez szegznl nem nagyobb dtj az 1. s 2. szakaszban foglaltak szerint szoftverterjesztsre
használt adathordozó; vagy.\</para>
</listitem>
</listitem>
</para>
a megfelel forrásérték terjesztésre vonatkozan megkapott tőkezats kseri az anyagot. (Ez az alternatva csak nem
kereskedelmi terjesztés esetén alkalmazhat abban az esetben, ha a terjeszt a Programhoz a trgykd vagy forrás
formában jutott hozz az ajnlattal egyt a fenti b. cikkeinek megfelel.)</para>
</listitem>
</orderedlist></para>

<para>Egy munka forrásdíja a munknak azt a formát jelenti, amelyben a mdosta sorok eldöntes végzési szoks.
Egy vgrejáthat program esetében a teljes forrás a tartalmazott szöveg és modul forrásdíjon belül, tovább a kapszold
felleldefinesz fájlok s a fordító vezérl parancsfájlok. Egy specifik kivételd a forrásdíknak nem kell tartalmáznia normál
esetben a vgrejáthat kd futtatsra szolgál operációs rendszer fbb rászeik (kernel, fordítóprogram stb.) terjesztett rászei
(forrás vagy bináris formban), kivéve, ha a komponens maga a vgrejáthat llomnyt kseri.\</para>

<para>Ha a vgrejáthat program vagy trgykd terjesztése a forrásdíj hozzáért egy megadott helyen biztosít sorban
világítja, akkor ez egyenrtk a forrásdíj terjesztésével, br msoknak nem kell a forrst lemsolniuk a trgykdral egyt.</para>

<sect2 id="sect4" label="4"><title>4. szakasz</title>

A Programot csak a jelen Licencben lertaknak megfelelően szabad lemsolni, terjeszteni, mdosta s
allicencbe adni. Az egyb mdon trtn msols, mdosta, terjesztés s allicencbe des rnytelen, s azonnal rnytelen a
dokumentumban megadott jogosultségeket. Mindazonáltal azok, akik a Licencet megszegtt kaptak plnok vagy
jogokat, tovább gyakorolhatják a Licenc letál meghatározott jogaikat mindaddig, amg teljesen megfelelnek a Licenc
feltételeinek.</sect2>

<sect2 id="sect5" label="5"><title>5. szakasz</title>

nek nem ktelez elfogadnia ezt a szabályozást, hiszen nem rta al. Ezen kvl viszont semmi ms nem ad
jogot a Program terjesztésre s mdosta. Ezeket a cselekedeteket a trvny bnteti, ha nem a jelen szerzi jogi szabályozs
keretei köztt trtnknk. Mindezek miatt a Program (vagy a Programon alapul munka) terjesztése vagy mdosta a jelen
dokumentum szabályainak, s azon bell a Program vagy a munka mdosta, msolsa vagy terjesztésre vonatkoz szöveg
feltételeinek elfogadást jelenti.</sect2>

<sect2 id="sect6" label="6"><title>6. szakasz</title>

Mindenn alkalommal, amikor a Program (vagy az azon alapul munka) továbbadja trtnik, a Programot
megkap személy automatikusan hozzút az eredeti licenctulajdonos szrmaz licencbehez, amely a jelen szabályok szerint
biztosítja a jogot a Program msolsra, terjesztésre s mdosta. Nem lehet semmilyen mdon tovább korlózni a fogad
flnk az itt megadott jogaik. A Program továbbadja nem felels harmadik személyekkel betartatni a jelen
szabályokat.</sect2>
7. szakasz

Ha brsgi hatrozat, szabadalomsrts vlelme, vagy egyb (nem kizrlag szabadalmakkal kapcsolatos) okbl olyan feltteleknek kell megfelelnie (akr brsgi hatrozat, akr megllapods, akr brmi ms eredmnyekpp), amelyek ellenteseik a jelen felttelekkel, az nem menti fel a terjeszt a jelen felttelek figyelembevele, vagy a terjeszt nem lehetsges a jelen Licenc s az egyb felttelek ktelezettsgeinek egyttes betartsval, akkor tilos a Program terjesztse. Ha pldul egy szabadalmi szerzds nem engedi meg egy program jogdj nlkli tovvbterjesztst azok szmra, akik kztve vagy kzeitlen megkajpik, akkor az egyetlen mdja, hogy eleget tegyen valaki mindkt felttel az, hogy ell a program terjesztstl.

Ennek a szakasznak brmely rsze rvnytelen, vagy nem rvnyesthet valamely krimny folytny, akkor a szakasz maradk rszt kell alkalmazni, egyb esetekben pedig a szakasz egssz alkalmazand.

Ennek a szakasznak nem az a clja, hogy a szabadalmak vagy egyb hasonl jogok megsrtsre sztnzn brkit is; mindssze meg szeretn vdeni a szabad szoftver terjesztsi rendszernek egysgt, amelyet a szabad kzreadst szablyoz feltelrendszek teremtenek meg. Sok ember nagymrtkben jult hozz az e rendszer keretben terjesztett, klnle szoftverekhez, s szmt a rendszer kvetkezetes alkalmazsra; azt a szerz/adomnyoz dnti el, hogy a szoftvert ms rendszer szerint is kzz kvnj-a tenni, s a licencet kapk ezt nem befolysolhatjik.

E szakasz clja, hogy pontosan tisztzza azt, ami elgondolsunk szerint a jelen licenc tbbi rsznak a kvetkezmnye.

8. szakasz

Ha a Program terjesztse s/vagy hasznlata egyes orszgokban nem lehetsges akr szabadalmak, akr szerzi jogokkal vdt felletek miatt, akkor a Program szerzi jogainak eredeti tulajdonosa, aki a Programot ezen szablyozs alapjn adj krzre, egy explicit fldrajzi megkst adhat a terjesztstse, s egyes orszgokat kizrh. Ebben az esetben gy tekintend, hogy a jelen licenc ezt a megkst is tartalmazza, ugyangy mintha csak a f szvegben lenne lerva.

9. szakasz

A Free Software Foundation idrl idre kiadja a General Public License dokumentum fellvizsglt s/vagy jabb vltozatait. Ezek az jabb dokumentumok az elz szellemen kszlnk, de rzletekben klnbhetnek, hogy j problmkat vagy agglyokat is kezeljenek.

A dokumentum minden vltozata egy megklnbztet verziszmmal eltva jelenik meg. Ha a Program szerzi jogi megjegyzsben egy bizonyos vagy annl <quote>jabb verzi</quote> van megjellve, akkor lehetsg van akr a megjellt, vagy a Free Software Foundation Ital kiadott ksbbi verziban lert felttelek kvetsre. Ha nincs ilyen megjellt verzi, akkor lehetsg van a Free Software Foundation Ital valaha kibocstott brmelyik dokumentum alkalmazsra.
10. szakasz

A Programot ms szabad szoftverbe, amelynek szerzi jogi szabályozás klnbzik, csak akkor ptheti be, ha a szerzti erre engedélyt szerzett. Abban az esetben, ha a program szerzi jogainak tulajdonosa a Free Software Foundation, akkor a Free Software Foundation cmre kell rni; nha kivelt tesznk. A dnts a kvetkez kt el szem elt tartval fog trtni: megmaradjon a szabad szoftveren alapul munkk szabad llapota, valamint segtse el a szoftver jrafelhasznlst s megosztst.

11. szakasz

GARANCIAVOLLALS HINYA

MIVEL A JELEN PROGRAM HASZNLATI JOGA DJMENTES, AZ ALKALMAZHAT JOGSZABLYOK LTAL BIZTOSTOTT MAXIMLIS MRTKBEN VISSZAUTASTJUK A PROGRAMHOZ A GARANCIA BIZTOSTST. AMENNYIBEN A SZERZI JOGOK TULAJDONOSAI RSBN MSKNT NEM NYILATKOZNAK, A PROGRAM A "JELEN LLAPOTBAN" KERI, KIADSRA, MINDENFLE GARANCIALLALS NLKL, LEGYEN AZ KIFEJEZETT VAGY BELERTETT, BELERTVE, DE NEM KIZRLAGOSAN A FORGALOMBA HOZHATSGRA VAGY ALKALMAZHATSGRA VONATKOZ GARANCIKAT. A PROGRAM MINSGBL S MKDSBL FAKAD SSZES KOCKZAT A FELHASZNLT TERHELI. HA A PROGRAM HIBSAN MKDIK, A FELHASZN LakNAK MAGNAK KELL VOLLALNIA A JAVTSHOZ SZKSGES MINDEN KLTSGET.

12. szakasz

AMENNYIBEN A HATLYOS JOGSZABLYOK VAGY A SZERZI JOGOK TULAJDONOSAI RSOS MEGLLAPODSBAN MSKNT NEM RENDELKEZNEK, SEM A PROGRAM SZERZIE, SEM MSOK, AKIK MDOSTOTT K/VAGY TERJESZTETTK A PROGRAMOT A FENTIEKNEK MEGFELELEN, NEM TEHETK FELELSS A KROKRT, BELERTVE MINDEN VLETLEN, VAGY KVETKEZMNYES KRT, AMELY A PROGRAM HASZNLATBL VAGY A HASZNLAT MEGAKADLYOZSBL SZRMAZIK (BELERTVE, DE NEM KIZRLAGOSAN AZ ADATVESZTST S A HELYTELEN ADATFELDOLGOZST, VALAMINT A MS PROGRAMOKKAL VAL HIBS EGYTTMKDST), MG AKKOR SEM, HA EZEN FELEK TUDATBAN VOLTAK, HOGY ILYEN KROK KELETKEZHETNEK.
Preambule

Koprovn a distribuce doslovch kopi tohoto licennho dokumentu jsou dovoleny komukoliv, jeho zmny jsou vak zakzny.

Softwarov licence jsou vtinou navreny tak, e vm odebraj prvo svobodnho sdlen a prav program. Smyslem GNU General Public License je naproti tomu zaruít svobodu ke sdlen a pravm svobodnho softwaru - pro zajit svobodnho pstupu k tomuto softwaru pro vechny jeho uivatele.
Softwarov licence jsou v tinou navyny tak, e vm odebraj prvo svobodnho sdlen a prav program. Smyslem GNU General Public License je naproti tomu zaruit svobodu ke sdlen a pravm svobodnho softwaru - pro zjit svobodnho pstupu k tomuto softwaru pro vechy jeho uivatele. Tato General Public License se vztahuje na vtnu softwaru nadace Free Software Foundation a na jakkoli jin program, jeho autor se piklon k jejmu pouvn. (Nkter dal software od Free Software Foundation je namsto toho pokryt GNU Lesser General Public License.) Mete ji rovn pout pro sv programy.</para>

Pokud mluvme o svobodnm softwaru, mme na mysli svobodu, nikoliv cenu. Nae General Public License je navrena pro zjit toho, e mete svobodn it kopie svobodnho softwaru (a tovat si poplatek za tuto slu, pokud chete), e obdrte zdrojov kd anebo jej mete zskat, pokud ho chcete, e mete tento softwar modifikovat nebo jeho sti pout v novch svobodnch programech; a e vte, e tyto vci smte dlat.</para>

Abychom mohli vae prva chnit, musme vytvoit omezen, kter zak komukoli vm tato prva odeprat nebo vs dat, abyste se tchto prv vzdal. Tato omezen se promtaj do jistch povinnost, kterm muste dostt, pokud te kopie dotynho softwaru anebo ho modifikujete.</para>

Napklad, te-li kopie takovho programu, a ji zdarma nebo za poplatek, muste poskytnout pjemcm vechna prva, kter mte sm. Muste zaruit, e pjemci rovn dostanou anebo mohou zskat zdrojov kd. A muste jim ukzat tyto podmnky, aby znali sv prva.</para>

We protect your rights with two steps:

We protect your rights with two steps:

Kvli ochran kadho autora i ns samotnch chceme zajistit, aby kad chpal skutenost, e pro svobodn software neplat dn zrky. Je-li software nkm jinm modifikovn a posln dle, chceme, aby pjemci vdli, e to, co maj, nen originl, take jakkoliv problmy vnesen jinmi se neodraz na reputaci pvodnch autor.

Konen, kad svobodn program je neustle ohroen softwarovmi patenty. Pejeme si zamezit nebezpe, e redistributoi svobodnho programu obdr samostatn patentov osvden a tm uin program vznn. Abychom tomu zamezili, deklarovali jsme, e kad patent mus bt bu vydn s tm, e umouje kadmu svobodn uii, anebo nesm bt vydn vbec.
Pesn ustanoven a podmnky pro koprovn, en a modifikaci jsou uvedeny dle.</para>

</sect1>

<title>Ustanoven a podmnky pro koprovn, distribuci a modifikaci</title>

<sect2 id="sect0" label="0">
<title>Paragraf 0</title>

<T PARA>Tato licence se vztahuje na kterkoliv program i jin dlo, kter obsahuje zmouk, umstnou v nm dritelem autorskch prv, o tom, e dlo me bt eno podle ustanoven GNU General Public License. V dalm textu znamen <quote>program</quote> kad takov program nebo dlo a <quote>dlo zaloen na programu</quote> znamen bu program samotn anebo kad jin dlo z nj odvozen, kter podl autorksmu zkonu: tm se mn dlo obsahuje program nebo jeho st, bu doslovn anebo s modifikacemi, poppad v peklad do jinho jazyka. (Nadle je peklad zahrnovn bez omezen pod pojem <quote>modifikace</quote>.) Kad uivatel licence je oznaovn jako <quote>vy</quote>.\</para>

Jin innosti ne koprovn, en a modifikace nejsou pokryty touto licenc; sahaj mimo jej rmec. Akt sputn programu nen omezen a vstup z programu je pokryt pouze tehdy, jestlie obsah vstupu tvo dlo zaloen na programu (nezvisle na tom, zda bylo vytvoeno innost programu). Posouzen platnosti pedchoz vty zvis na tom, co program dl.</sect2>

<title>Paragraf 1</title>

<T PARA>Smte koprovat a it doslovn kopie zdrojovho kdu programu tak, jak jste jej obdrel a na libovolmn mdiu, za pedpokladu, e na kad kopii viditeln a leit zveejnte zmouk o autorskch prvech a absenci zruky; ponechte nedoten vechny zmouky vztahuje se k tto licenci a k absenci zruky; a dte kadmu pjemci spolu s programem kopii tto licence.</para>

Za fyzick akt penesen kopie mete dat poplatek a podle vlastnho uven mete nabdnout za poplatek zrn ochranu.</sect2>

<title>Paragraf 2</title>

YOU MAY MODIFY YOUR COPY OR COPIES OF THE PROGRAM OR ANY PORTION OF IT, THUS FORMING A WORK BASED ON THE PROGRAM, AND COPY AND DISTRIBUTE SUCH MODIFICATIONS OR WORK UNDER THE TERMS OF <link linkend="sect1">SECTION 1</link> ABOVE, PROVIDED THAT YOU ALSO MEET ALL OF THESE CONDITIONS:

You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
<listitem>
<para>You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.</para>
</listitem>

<listitem>
<para>If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.
</para>

<note>
<title>Exception:</title>
<para>If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
</para>
</note>
</listitem>

<para>Tyto požadavky se vztahuj k modifikovanému dlu jako celku. Pokud lze identifikovat sti takovho dla, které nejsou odvozeny z programu a mohou být samy o sob rozumně považovány za nezvislý a samostatný dla, pak se tato licence a její ustanovení nevztahuj na tyto sti, jsou-li eny jako nezvislé dla. Avak jakmile tyt sti rozumíte jako st celku, jin je dlo založeno na programu, musí být rozděleno podle ustanovení tto licence tak, e povolen poskytnutí dalm uživatelům se raz na cel dlo, tedy na vechny jeho sti bez ohledu na to, kdo kterou st napsal.</para>

<para>Smyslem tohoto paragrafu tedy není skn práv na dlo zcela napsan vmi ani poprvé práv na nmu; skutečným smyslem je vkon práva na ien distribuce odvozených nebo kolektivních dla založených na programu.</para>

<para>Použ spojen jiné dla, je nen na programu založeno, s programem (anebo dlem založenm na programu) na pamávinci nebo distribučních médii neuvázuje toto dlo do posbírné tto licence.</para>
</sect2>

<sect2 id="sect3" label="3">
<title>Paragraf 3</title>
</sect2>
You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

Accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

Accompany it with a written offer, valid for at least three years, to give any
third party, for a charge no more than your cost of physically performing source
distribution, a complete machine-readable copy of the corresponding source code,
to be distributed under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,

Accompany it with the information you received as to the offer to distribute
the corresponding source code. (This alternative is allowed only for noncommercial
distribution and only if you received the program in object code or executable form
with such an offer, in accord with Subsection b above.)
<sect2 id="sect5" label="5">
<title>Paragraf 5</title>

<p>Nen va povinnost tuto licenci pijmout, protoe jste ji nepodepsal. Nic jinho vm vak nedv monost koprovat nebo it program nebo odvozen dla. V ppad, e tuto licenci nepijmete, jsou tyto innosti zkonem zakzny. Tm pdem modifikac anebo enm programu (anebo kadho dla zaloenho na programu) vyjadujete sv podzen se licenci a vem jejm ustanovenm a podmnkm pro koprovan, modifikovn a en programu a dlna na nm zaloench.</p>
</sect2>

<sect2 id="sect6" label="6">
<title>Paragraf 6</title>

<p>Pokad, kdy redistribuuujete program (nebo dlo zaloen na programu), zskv pjmce od pvodnho dritele licence prvo koprovat, modifikovat a it program v souladu s tmto ustanovenmi a podmnkmi. Nesmte klst dn dal pekky vkonu zde zaruench pjmcovch prv. Nejste odpovdn za vymhn dodrovn tto licence tetmi stranami.</p>
</sect2>

<sect2 id="sect7" label="7">
<title>Paragraf 7</title>

<p>Jsou-li vm z rozhodnut soudu, obvinnm z poruen patentu nebo z jakhokoli jinho dvodu (nejen v souvislosti s patenty) uloen takov podmnky (a ji pkazem soudu, smlouvou nebo jinak), kter se vyluuj s podmnkmi tto licence, nejste tm osvobozen od podmnek tto licence. Pokud nemete it program tak, abyste vyhovl zrove s vyjden zm zmazkym vyplvajcem z tto licence a jinm platnmm vznkem, nesmte jej v dsledku toho it vbce. Pokud by napklad patentov osvden nepovoloval bezplatnou redistribuci programu vemi, kdo vam piinnm zskaj pmo nebo nepmo jeho kopie, pak by jedin mon zpsob jak vyhovt zrove patentovmu osvden i tto licenci spoval v ukonen distribuce programu.</p>

<p>Pokud by se za njakch specifickch okolnost jevila nkter st tohoto paragrafu jako neplatn nebo nevynutiteln, povauje se za smrodatnou rovnovha vyjden tmto paragrafem a paragraf jako celek se povauje za smrodatn za jinch okolnost.</p>

<p>Smyslem tohoto paragrafu nenavdt vs k poruovn patent i jinch ustanoven vlastnickho prva, anebo tato ustanoven zpochybovat; jedinm jeho smyslem je ochrana integrity systmu en svobodnho softwaru, kter je podloen veejmi licennimi pedpisy. Mnoz lid poskytli sv pspvy do irokho okruhu softwaru enho tmto systm, spolehnuve se na jeho dsled uplatov; zle na autorovi/drci, aby rozhodl, zda si peje it software pomoc njakho jinho systmu a dn uivatel licence neme takov rozhodnut zpochybovat.</p>

<p>Smyslem tohoto paragrafu je zevrubn osvlt to, co je povaovno za dsledek plynouc ze zbytku tto licence.</p>
</sect2>
Paragraf 8

Pokud je en i pouit programu v nkterch zemch omezeno bu patenty anebo autorskzy chrnnmi rozhranmi, me dritel pvodnch autorskch prv, kter svuje program do psobnosti tto licence, pidat vslovn omezen pro geografick en, vyluujc takov zem, take en je povoleno jen v tch zemch nebo mezi tmi zemmi, kter nejsou tnto zpsobem vyloueny. Tato licence zahrnuje v tomto ppad takov omezen pesn tak, jako by bylo zapsno v textu tto licence.</para>

Paragraf 9

Free Software Foundation me as od asu vydvat upraven nebo nov verze General Public License. Takov nov verze se budou svm duchem podobat souasn verzi, v jednotlivostech se vak mohou liit s ohledem na nov problmy i zm.</para>

Kad verzi je pidleno rozliujc slo verze. Pokud program specifikuje slo verze, kter se na nj vztahuje, a vecchny nsluduj verze, mete se podle uven dit ustanoveni a podmnkami bu to konkrtn verze anebo kterkoliv nsluduj verze, kterou vydala Free Software Foundation. Jestlie program nespecifikuje slo verze tto licence, mete si vybrat libovolnou verzi, kterou kdy Free Software Foundation vydala.</para>

Paragraf 10

Pokud si pejete zahrnout sti programu do jinch svobodnch program, jejich distribun podmnky jsou odlin, zalet autorovi dost o povolen. V ppad softwaru, k nmu vlastn autorsk prva Free Software Foundation, napite Free Software Foundation; nkdy inne vjimky ze zde uvedench ustanoven. Nae rozhodnut bude vedeno dvma cli: zachovnm svobodn povahy vech odvozenin naeho svobodnho softwaru a podporou sdlen a optovnho vyuit softwaru obecn.</para>

ZRUKA SE NEPOSKYTUJE

Paragraf 11

VZHLEDEM K BEZPLATNMU POSKYTNUT LICENCE K PROGRAMU SE NA PROGRAM NEVZTAHUJE DN ZRUKA, A TO V ME POVOLEN PLATNM ZKONEM. POKUD NEN PSEM
STANOVENO JINAK, POSKYTUJ DRITEL AUTORSKCH PRV POPPAD JIN STRANY PROGRAM
TAK, JAK JE, BEZ ZRUKY JAKHOKOLI DRHU, A VSLOVN NEBO VYPLVAJC, VETN, ALE NIKOLI JEN, ZRUK PRODEJNOSTI A VHODNOSTI PRO URIT EL. POKUD JDE O KVALITU A VKONNOST PROGRAMU, LE VEKER RIZIKO NA VS. POKUD BY SE U PROGRAMU PROJEVLY ZVADY, PADAJ NKLADY ZA VECHNU POTEENOU DRBU, OPRAVU I NPRAVU NA V VRUB.
Paragraf 12

V DNM PPAD, S VJIMKOU TOHO, KDY TO VYADUJE PLATN ZKON, ANEBO KDY TO BYLO PSEMN ODSOUHLASENO, VM NEBUDA DN Z DRITEL AUTORSKCH PRV ANI DN JIN STRANA, KTER SM MODIFIKOVAT I IT PROGRAM V SOULADU S PEDCHOZMI USTANOVENMI, ODPOVDNI ZA KODY, VETN VECH OBECNCH, SPECILNCH, NAHODILCH NEBO NSLEDNCH KOD VYPLVAJCCH Z UVN ANEBO NESHOPNOSTI UVAT PROGRAMU (VETN, ALE NIKOLI JEN, ZTRTY NEBO ZKRESLEN DAT, NEBO TRVALCH KOD ZPSOBENCH VM NEBO TETM STRANM, NEBO SELHN FUNKCE PROGRAMU V SOUINNOSTI S JINMI PROGRAMY), A TO I V PPAD, E TAKOV DRITEL AUTORSKCH PRV NEBO JIN STRANA BYLI UPOZORNNI NA MONOST TAKOVCH KOD.
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Section 3

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<para>
</sect2>

<sect id="sect11" label="11">
<title>Section 11</title>

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<para>
</para>

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particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

</para>

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</para>

<para>This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

</para>

<sect2 id="sect12" label="12">
<title>Section 12</title>

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</para>

</sect2>

<sect2 id="sect13" label="13">
<title>Section 13</title>

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</para>

</sect2>
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</para>
</sect2>
</sect1>
</article>

Software libreaz hitz egiten dugunean, askatasunari buruz arila, eta ez prezioari buruz. Gure Lizentzia Publiko Orokorren xedea da software librearen kopia batetik (eta, nahi izanez gero, zerbitzu horregatik) askatasuna duzula ziurtatzea, iturburu-kodean dago dazlu edo, nahi izanez gero, hartzea etorki edo dazlu bermatzea, softwarea edo software zatiak beste programa libre berri batzuen erabiltzea eskubidea dazlu segurtatzea eta gauza horiek egin ditzekeela jakinaraztea.


Zure eskubideak babesteko, banatzaileek zuri eskubide hauek ukatzea edo eskubide horiei uko egin araztea debekatzea eta eragozteko mugak jarri behar ditugu. Mugaketa horien ondorioz, liburutegia aldatu edo kopia batetik badituzu, zenbait erantzukizun hartuko ditugu zure gain.

Bi urratsez osatutako metodoarekin babesten ditugu zure eskubideak: (1) liburutegiaren egile-eskubideak erregistratzen ditugu, eta (2) liburutegia kopiatzeko, banatze eta/edo aldatzeko legezko baimena ematen dizun lizentzia eskaintzen dizugu.

Banatziaiek babesteko, argi utzi nahi dugu liburutegi break ez duela bermerik. Norbaitek liburutegia aldatzen eta banatzen badu, hartziaiekin jakin behar dute haiek dutena ez dela jatorrizko bertsioa, eta, beraz, besteren batek sortutako arazoak ez dutela jatorrizko egiaren ospea kaltetuko.


GNU softwarearen zati handiena, liburutegi batzuk barne, GNU Lizentzia Publiko Orokorren baldintzapean dago. GNU Hedadura Txikiagoko Lizentzia Publiko Orokorra liburutegi jakin batzuei aplikatzen zaie, eta Lizentzia Publiko Orokorretik asko desberdintzen da. Lizentzia hori liburutegi batzuetan erabiltzen dugu programa libreak ez diren programen liburutegietara estekatu ahal izateko.


Beste kasu batzuetan, liburutegi jakin bat programa ez-libreadu erabiltzeko baimena emateak software librea jende gehiagok erabiltzea ahalbidetzen du. Adibidez, GNU C Liburutegia programa ez-libreadu erabiltzeko baimenari esker, jende gehiagok erabiltzen ditu GNU sistema eragile osoa eta bere aldaera, hau da, GNU/Linux sistema eragilea.

Hedadura Txikiagoko Lizentzia Publiko Orokorra erabiltzailearen askatasuna gutxiago babestu arren, liburutegiarekin eskuratutako programa baten erabiltzailea programa hori liburutegiaren bertsio aldatu batean erabiltzeko askatasuna eta baliabideak ematen dizkio.

Softwarea kopiatzeko, banatzeko eta aldatzeko baldintza zehatzak dituztu jarraian: arretaz irakurri zein den liburutegian onartutako lanaren eta liburutegia erabiltzen duen lanaren arteko ezberdintasuna. Lehenengo lanak liburutegitik eratorritako kodea da; bigarren lana, ahdiz, liburutegiarekin konbinatu.

---

<i>Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 46325</i>
KOPIATZEKO, BANATZEKO ETA ALDATZEKO BALDINTZAK

0. atala
Hedadura Txikiagoko Lizentzia Publiko Orokor honen (<quote>Lizentzia hau</quote> ere deitu) baldintzapean banatu daitekeela adierazten duen oharra jarri baldin baidin badio egile-eskubideen jabeak software-liburutegi bati edo beste prograama bati, lizentzia-kontratu hau aplikatuko zaio liburutegi edo programa horri. Lizentziadun oro adierazteko, <quote>zu</quote> erabiltzen da.

Liburutegia software-funtzioen eta/edo datuen bilduma bat da, exekutagarriak sortzean aplikazio-programekin behar bezala estekatzeko prestatuak (aplikazio-programek funtzio eta dato horietakoa batzuk erabiliz dituzte).

Liburugien iturburu-kode osoa jaso bezala kopiatu eta banatu dezakezu edozein euskarritan, baldin eta kopia bakoitzari behar bezala eta ikusteko moduan jartzen badiozu egile-eskubideen oharra eta bermerik ez duela dioen oharra; Lizentziari eta bermerik ezarri dagokion ohar guztiak oso-osorik uzten baditu; eta Lizentziaren kopia Liburutegiarekin batera banatzen baduzu.

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4. atala

Liburutegia kopiatu edo banatu dezakezu (edo Liburutegian oinarritutako lana, Liburutegiarekin lan egiteko diseinatua dagoenean (harekin konpilatuta edo estekatuta), "Liburutegia erabiltzen duen lana" deitzenez zaiola. Horrelako lanak, bakarka, ez dira Liburutegitik eratorritako lanak, eta beraz, Lizentzia honen esparrutik kanpo daude. Hala ere, "Liburutegia erabiltzen duen lana" bat Liburutegiarekin estekatzen baduz, exekutagarri bat sortzen du eta hori Liburutegiaren eratorria da (Liburutegiaren zatia baihitu), eta ez "Liburutegia erabiltzen duen lana" deitzenez zaiola. Horrelako lanak, bakarka, ez dira Liburutegitik eratorritako lanak, eta beraz, Lizentzia honen baitan sartzen da. (Liburutegiaren zatia dituzten exekutagarriak "Liburutegia erabiltzen duen lana" baino ez.)

Basateko objektu-fitxategi batek zenbakizko parametroak, datu-egituraren diseinuak eta gehigarriak, makro txikiak eta barneko funtzio txikiak (hamar lerro edo gutxiago luzeran) soilik erabiltzen badiatu, objektu-fitxategiaren erabilera mugatu gabe egongo da. Legalki lan eratorria den edo ez kontuan hartu gabe. (Objektu-kodea eta Liburutegiaren zatia dituzten exekutagarriak "Liburutegia erabiltzen duen lana" baino ez.)

Bestela, lana Liburutegiaren eratorria bada, lanaren objektu-kodea "Liburutegia erabiltzen duen lana" baino ez kontuan hartu gabe. (Objektu-kodea eta Liburutegiaren zatia dituzten exekutagarriak "Liburutegia erabiltzen duen lana" baino ez.)
dezakezu, betiere, baldintza horiek lana aldatzen uzten badute bezeroak erabili ahal izateko eta ingeniaritzak alderantzikutzen uzten badute aldaketa horiek arazteko.</para>

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<orderedlist numeration="loweralpha">
  <listitem>
    <para id="sect6a">
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    </para>
  </listitem>
  <listitem>
    Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
  </listitem>
  <listitem>
    Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link> above, for a charge no more than the cost of performing this distribution.
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Exekutagarrientzat, behar den Liburutegia erabiltzen duen lanak exekutagarria kopiatzeko behar diren datu eta programa-utilitateak eduki behar ditu. Nolanahi ere, aparteko salbuespen gisa, banatzen den materialak ez dauka exekutatzeko erabiltzen den sistema eragilearen osagai nagusiekin (konpiladorea, nukleo eta abar) banatu ohi den guztia eman beharrik (iturburu nahiz bitar moduan), baldin eta osagaia bera ez bada exekutagarriarekin batera banatzen.

Baliteke baldintza hori liburutegien jabeari buruz lizentzian ezartzen diren mugekin kontraesanean egotea (normalean ez dira sistema eragilearekin batera etortzen). Kontraesan horrek esan nahi du ezin dituzula biak batera erabili banatzen duzun exekutagarri batean.

Liburutegian oinarritutako lana diren liburutegi-eginbideak elkarren ondoan jar ditzakezu liburutegi bakarrean, Lizentzia honetan aipatzen ez diren beste liburutegi-eginbide batzuen batera, eta horrelako liburutegi konbinatuak banatu ditzakezu, betiere Liburutegian oinarritutako lanaren eta beste liburutegi-eginbide batzuen banaketa bereizia onartzen bada, eta zuk bi gauza hauek egiten badituzu:
Debekatuta dago lizentzia honen baitan espresuki adierazitakoa bete gabe Liburutegia kopiatu, aldatu, azpilizentziatu, estekatu edo banatzeko. Beste era batean Liburutegia kopiatu, aldatu, azpilizentziatu, estekatu edo banatzeko saio oro deusea izango da, eta Lizentzia honen baitan dauzkazun eskubideak automatikoki kendu egingo zaizkizun. Dena den, Lizentzia honen pean zuregandik kopiarak edo eskubideak jaso dituztenei ez zaizkie lizentziak kenduko, baldintza guztiak betetzen dituzte bitartean.


Atal honen zatiren bat baliogabea edo beteenezina bada egoera berezirik batean, atalaren gainerrako guzti aplikatu beharko da, eta atala bere osotasunean aplikatu beharko da beste egoeretan.

Atal honen xedea ez da patenteak edo jabetza-eskubidea eskakizunak ez betetzerako bultzatzea edo halako eskakizunen baliozkotasuna utxatza; atal honen xede bakarra da software librearen banaketa-sistemaren zuzentasuna babestea, lizentziak publikoen bidez bideratzen bai. Sistema horren baitan banatutako software ugariari ekarpen oparoa egin dio jende askok, sistema modu iraunkorrean aplikatuko delakoan. Egile/emailearen esku dago
erabakitzea beste sistemaren baten bidez banatu nahi duen edo ez, eta lizentziadun batek ezin du halako erabakirik inposatu.</para>

<para>Atal honek argi eta garbi utzi nahi du zer den Lizentziaren zatiaren ondoriozat jotzen dena.</para>

<sect2 id="sect12" label="12">
<title>12. atala</title>

<para>Zenbait herrialdetan Liburutegiaren banaketa edo/eta erabilerako mugatzen baldin badute patenteen edo copyrightdun interfazeen bidez, jatorrizko copyrighta duenak geografikoki mugatu ahal izango du banaketa herrialde horiek kanpoan utzeko, banaketa baztertu gabeko herrialdeetan edo horien artean soilik egin dadin. Halako kasuetan, mugaketa hori Lizentzia honetan sartuta geratuko da, Lizentziaren gorputzean idatzita egongo balitz bezala.</para>

<sect2 id="sect13" label="13">
<title>13. atala</title>

<para>Free Software Foundation-ek noizean behin Hedadura Txikiagoko Lizentzia Publiko Orokorren bertsio berrikusia berri horiek bertsio berriagoan izango dira dira espirituz, baina arazo edo kezka berriei aurre egin beharko dietenez, litekeena da zehatz-mehatz bat ez etortzea.</para>


<sect2 id="sect14" label="14">
<title>14. atala</title>

<para>Banaketa-baldintza batera eziznak dituzten beste programa libre batzuetan sartu nahi baditzu Liburutegiaren zatiak, idatz iraiozu egileari baimena eskatzea, Free Software Foundation-en esku baldin badaude jabetza intelektualeko eskubideak, idatz eazu Free Software Foundation-era, batzuetan salbuespenak egiten baititugu halakoetan. Gure erabakia bi helburu hauen araberakoa izango da: gure software libretik eratorritako lan guztien egoera libreia mantentzea, eta, oro har, softwarea partekatua eta berrerabilia izan dadin sustatzea.</para>

<sect2 id="sect15" label="15">
<title>BERMERIK EZA</title>

<para>LIBURUTEGIAREN LIZENTZIA DOAN EMATEN DENEZ, LIBURUTEGIAK EZ DU BERMERIK, LEGE APLIKAGARRIAK ONARTZEN DUEN NEURRIAN, AURKAKORIK ADIERAZTEN EZ DEN KASUETAN, JABETZA INTELEKTUALEKO ESKUBIDEA DUTE NEK ETA/EDO BESTE ALDERDI BATZUEK LIBURUTEGIA DAGOEN-FADENO EZKUTEN ESKUBIDEA DUTE MUDATU ETA/EDO BESTE ALDERDI BATZUEK LIBURUTEGIA DADOEN-FADOENEAN EMATEN DUTE INOLAKO
BERMERIK GABE, EZ ESPRESUKI ADIERAZITAKORIK ETA EZ INPLIZITURIK, BARNE HARTUZ, BAINA HORRETARA MUGATU GABE, MERKATURATZEKO EDO XEDE JAKIN BATERAKO EGOKITASUNAREN BERMEA. LIBURUTEGIAREN KALITATEARI ETA ERRENDIMENDUARI DAGOKIONEZ, ZURE GAIN DAGO ARRISKU GUZTIA. LIBURUTEGIAREN AKATSIA IZANGO BALU, KONPONTZEKO EDO ZUZENTZEKO BEHarreko ZERBITZU GUZTIENT KOSTUA ZURE GAIN HARTU BEHARKO ZENUKE.</para>

</sect2>

<sect2 id="sect16" label="16">
<title>16. atala</title>
<para>LEGE APLIKAGARRIAK EDO IDATZIZ JASOTAKO BORONDATEZKO AKORDIO BATEK HALA ESKATZEN DUELAKO EZ BADA, EZIN IZANGO DIOZU JABETZA INTELEKTUALEKO ESKUBIDEDUNARI EDO GOIAN BAIMENTZEN DEN BEZALA LIBURUTEGIA BIRBANATU EDO ALDA DEZAKEEN BESTE ALDERDI BATI ERANTZUKIZUNIK ESKATU EZ KALTEENGATIK, EZ LIBURUTEGIAREN ERABILERAREN EDO ERABILTZEKO EZGAITASUNAREN ONDORIOZ SOR LITEZKEEN KALTE OROKOR, BEREZI, GEHIGARRI EDO ONDORIOZKOENGATIK (BESTEAK BESTE, DATUAK GALITZEA EDO HONDATZEA, EDO ZUK EDO BESTE NORBAITEN JASANDako GALERAK, EDO BESTE SOFTWARE BATEKIN LAN EGITEKO LIBURUTEGIAREN HUTS EGITENEN BAT), NAHIZ ETA ESKUBIDEDUNARI EDO BESTE NORBAIT HORRi KALTEAK IZAN LITEZKEELA AURRETIK ABISATU IZAN.</para>
</sect2>
</sect1>
</article>
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

46335
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<note>
<title>Exception:</title>
<para>
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
</para>
</note>

<para>
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</para>

<para>
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.
</para>

<para>
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</para>

<sect2 id="sect3" label="3">
<title>Section 3</title>

<para>
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Sections 1 and 2 above provided that you also do one of the following:

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</para>

<para>
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.
</para>

<para>
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</para>

<para>
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
</para>

</sect2>

<sect2 id="sect8" label="8">
<title>Section 8</title>
</sect2>

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</para>

</sect2>

<sect2 id="sect9" label="9">
<title>Section 9</title>
</sect2>

<para>
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Dokumentuaren <quote>Bertsio aldatua</quote> esaten denean, Dokumentu hau osorik
edo zati batean biltzen duen edozein lan adierazten da, hau da, kopia literalak, aldaketak dituena edo beste hizkuntza batera itzulitakoa.</para>


<quote id="fdl-invariant">Atal aldaezinak</quote> <link linkend="fdl-secondary">Atal sekundario</link> jakin batzuk dira; <link linkend="fdl-document">Dokumentua</link> Lizentzia honen baldintzen pean argitaratzen dela esaten duen oharrean zehazten dira Atal aldaezinen izenburoak.</para>

<quote id="fdl-cover-texts">Azaleko testuak</quote> testu zati laburrak dira eta Aurreko azaleko testu edo Atzeko azaleko testu gisa aipatzen dira <link linkend="fdl-document">Dokumentua</link> Lizentzia honen pean argitaratzen dela dioen oharrean.</para>

<quote id="fdl-transparent">Dokumentu</quote>aren kopia <quote>gardena</quote> makina bidez irakurtzeko moduko kopia da eta, gainera, publiko orokorra erabiltzeko moduko formatuduna, zuzenean testu-editore arruntekin ikusi eta edita daitekeena, edo, pixelearen osatuta irudia bada, pintatzeko editore orokorrako editatzeak modukoak edo, marrazkia edo, marrazki-editore oso erabilgarriekin editatzeak modukoak; horrez gain, testu-formatatezaietan sargai edo input gisa erabiltzen dute daitekeena, edo testu-formatatezaiak sargai gisa onartzen duten formatuetako batera automatikoki itzul daitekeena. Beste eko bateko fitxategi-formatu Gardenean egindako kopia, irakurtzeko aldatu ahal izateko diseinatutako marka-sistema duena, ez da Gardena. <quote>Gardena</quote> ez den kopiarri <quote>opako</quote>/quote> deitzen zaio.</para>


<quote id="fdl-section2" label="2">KOPIA LITERALAK</quote>

<quote id="fdl-document">Dokumentua</link> edozein euskarritan kopiatu eta banatu dezakezu, komertzialki zein ez-komertzialki, baldin eta Lizentzia hau, copyright-oharrak eta Dokumentuari lizentzia hau aplikatzen zaiola adierazten duen lizentzia-oharra jartzen bazaie kopia guztiei, eta Lizentzia honi beste inolako
baldintzarik gehitzen ez bai. Egiten edo banatzen dituzun kopietan ezin da erabili irakurketa edo kopia egitea eragozten edo kontrolatzen duen inolako baliabide teknikorik. Nolanahi ere, kopia egitearen truke ordainda jasotzea onartzen da, Kopia asko banatzen baduzu (hurrengo atalean zehazten da kopurua), <link linkend="fdl-section3">3. ataleko</link> baldintzak ere bete behar dituzu. </para>

Goian azaldutako baldintza berdinen pean kopia mailegutan ere utz ditzakezu, eta kopia jendaurrean erakutsi ere bai.</sect1>

KANTITATE HANIAK KOPIATZEA</sect1>


Azaletan jarri beharreko testuak luzeegiak badira, azalak horiek maila berdinean izan behar dute nabarmenak eta ikusteko modukoak. Horrez gainera, beste material batzuk ere gehi ditzake ditzakezua azaleatan. Azaletara mugatutako aldaketekin egindako kopiak, <link linkend="fdl-document">Dokumentu</link>aren tituluaren mantentzen bada eta baldintza horiek betez egiten badira, kopia literalzat jo daiteke beste alderdi batzuei dagokienez.</sect1>

Bestalde, <link linkend="fdl-document">Dokumentu</link>aren kopiatu ataleko baldintzak betez baditu, kontuan izanik betiere Bertso aldauta Lizentzia honen pean banatu behar duzu, Bertso aldauta izanik Dokumentuaren funtzioa beteko duena, eta, beraz, Bertso aldauta banatzeko edo aldatzeko baimena eman behar diozula kopia bat duen edonori. Horrez gainera, honako hauek egin behar dituzu Bertso Aldatuan:
Titulu-orriaren (eta azaletan, azalik badu) Dokumentuarena eta aurreko bertsioea ez den beste edozein titulu bat erabili behar duzu (aurreko bertsiorik badago, Dokumentuaren Historiarean zerrengatuta egongo da). Aurreko bertsio horietako baten titulu bera erabili dezakezu, baldin eta jatorrizko argitaratzaileak horretarako baimena ematen badu.</para>
</listitem>

<Titulu-orri> an autore gisa, Bertsio aldatuaren pertsona edo erakunde baten izena jarri behar duzu, eta, horrekin batera, Dokumentuaren bost egile nagusien izena gutxienez (eta bost baino gutxiago badira, guztiena).</para>
</listitem>

<Titulu-orri> an argitaratzailearen izena jarri behar duzu, argitaratzaile gisa.</para>
</listitem>

Dokumentuaren copyright-ohar guztiak gorde behar dituzu.</para>
</listitem>

Zure aldaketei dagokien copyright-oharra gehitu behar duzu beste copyright-oharren ondoan.</para>
</listitem>

Copyright-oharen jarraian, Lizentzia-ohar bat ikusten behar duzu, jendearekin baimena emateko. Bertsio aldatua erabil dezake Lizentzia horren baldintzen pean, beheko Eranskinean azaltzen den bezala.</para>
</listitem>

Lizentzia-ohar horretan Dokumentuaren lizentzia-oharrean adierazitako Adaldeak Azaleko testu guztien zerrenda gorde behar duzu.</para>
</listitem>

Lizentzia honen kopia ere, aldaketarak gabe jarri behar duzu.</para>
</listitem>

Historia izeneko atala gorde behar duzu, baita bere tituluak ere, eta gutxienez Bertsio aldatuaren izenburua, urtea, autore berriak eta argitaratzaila aipatuko
dituen elementu bat gehitu behar diozu, Titulu-ori an agertzen den bezala. Historia izeneko atalak ez badago Dokumentu an, zeuk sortu beharko duzu, Dokumentuaren titulua, urtea, autoreak eta argitaratzailea adierazteko Dokumentuaren Titulu-orrian agertzen den bezala, eta, gainera, Bertxio aldatua deskribatzeko beste elementu bat gehitu beharko duzu aurreko esaldian azaldutako moduan.

Dokumentuaren kopia Gardena publikoki atzitzeko Dokumentu an ematen den sare-helbidea gorde behar da, eta, era berean, Dokumentuaren oinarri izan diren aurreko bertxioentzat ematen diren sare-helbideak ere bai. Helbide horiek Historia atalean sar daitezke. Sare-helbideak ez dira nahitaez jarri behar, Dokumentua bera baino gutxienez lau urte lehenago argitaratutako lanari dagozkionak baldin badira, edo horretarako baimena ematen badu bertxioaren jatorrizko argitaratzaileak.

Eskertzak edo Eskaintzak izeneko edozein atalean, atalaren titulua gorde behar da, eta ataleko eskertza edota eskaintza bakoitzean egileak darabilen gai eta tonua errespetatu behar dira.

Errespetatu Dokumentuaren Atal aldaezin guztiak, testuak eta tituluak batere aldatu gabe. Atal-zenbakiak edo haien baliokideak ez dira atalaren tituluaren zatitzat hartzen.


Lehendik dagoen atal bati ez jarri Oniritziak titulua ez eta Bertxio aldatuaren lizentzia-oharrean. Titulu horiek gainerako atalen tituluen ezberdinak izan behar dute.

Bertxio aldatuak gai nagusia buruzko atal berriak edo eranskinak baditu, Bertxio aldatuaren sekundario</para>


Oniritziak titulua duen atala gehi dezakezu, baldin eta zure Bertxio aldatu</para>
adibidez, adituak egindako ikuskatzea edo erakunde batek testua estandartzat onartu duela, eta abar--.</para>

<p>Gehienez bost hitz dituen pasartea gei dezakezu &lt;link linkend="fdl-cover-texts"&gt;Aurreko azaleko testu&lt;/link&gt; gisa, eta gehienez 25 hitzeko pasartea &lt;link linkend="fdl-cover-texts"&gt;Atzeko azaleko testu&lt;/link&gt; gisa &lt;link linkend="fdl-modified"&gt;Bertsio aldatu&lt;/link&gt;aren &lt;link linkend="fdl-cover-texts"&gt;Azaleko testu&lt;/link&gt;en zerrrendaren bukaera. Aurreko azaleko testu bakar bat eta Atzeko azaleko testu bat gei daiteke entitate baten bidez (edo entitate batek egindako egokitzapenen bidez). Dagoeneko &lt;link linkend="fdl-document"&gt;Dokumentu&lt;/link&gt;ak azaleko testuak baldin badauak azal berarentzat, aurretik zuk edo zu ordezkatzen zaituen entitateak gehitutakoak, ezingo duzu beste testurik gehitu, baina naiki izanez gero, lehendik dagoena ordeztu dezakezu, testu zaharra gehitu zuen argitaratzailearen baimen esplizitua baldin baduzu.&lt;/para&gt;

<p>Lizentzia honen bidez &lt;link linkend="fdl-document"&gt;Dokumentu&lt;/link&gt;aren autoreak (edo autoareek) eta argitaratzaileak (edo argitaratzaileek) ez dute baimenik ematen haien izenak publizitatean erabiltzeko edo &lt;link linkend="fdl-modified"&gt;Bertsio aldatu&lt;/link&gt;aren &lt;link linkend="fdl-cover-texts"&gt;Azaleko testu&lt;/link&gt;en zerrendaren bukaeran. Aurreko azaleko testu bakar bat eta Atzeko azaleko testu bat gei daiteke entitate baten bidez (edo entitate batek egindako egokitzapenen bidez). Dagoeneko &lt;link linkend="fdl-document"&gt;Dokumentu&lt;/link&gt;ak azaleko testuak baldin badauak azal berarentzat, aurretik zuk edo zu ordezkatzen zaituen entitateak gehitutakoak, ezingo duzu beste testurik gehitu, baina naiki izanez gero, lehendik dagoena ordeztu dezakezu, testu zaharra gehitu zuen argitaratzailearen baimen esplizitua baldin baduzu.&lt;/para&gt;

<p>Lizentzia honen pean argitaratutako beste dokumentu batzuekin konbina dezakezu &lt;link linkend="fdl-document"&gt;Dokumentua&lt;/link&gt;, goian &lt;link linkend="fdl-section4"&gt;4. atalean&lt;/link&gt; biltzen diren baldintzak betetzen badituzu eta bateratzean jatorrizko dokumentuen &lt;link linkend="fdl-invariant"&gt;Atal aldaezin&lt;/link&gt; guztiak sartzen badituzu aldatu gabe eta guztiak Atal aldaezin gisa zerrendatuta zure lan konbinatuaren lizentzia-oharrean.&lt;/para&gt;

<p>Lan konbinatuak Lizentzia honen kopia bakarra baino ez du behar, eta hainbat &lt;link linkend="fdl-invariant"&gt;Atal aldaezin&lt;/link&gt; berdin badaude, kopia bakarraren ordeztu daitezke. Izena baina eduki ezberdina duten hainbat Atal aldaezin baldin badaude, atal bakoitzaren tituluak desberdindu eta titulu bakar bihur ezazu, bukaera autorearekin edo argitaratzailearen izena jarriz parentesi artean, edo errepikatzen ez den zenbaki bat. Egin ezazu egokitzapen bera Atal aldaezinen zerrendako atal-tituluetan, lan konbinatuaren lizentzia-oharrean.&lt;/para&gt;

<p>Konbinazioan, jatorrizko dokumentuetan &lt;quote&gt;Historia&lt;/quote&gt; titulua duten atalak konbinatu behar dituzu, eta &lt;quote&gt;Historia&lt;/quote&gt; tituluden atal bakar bat osatu. Era berean, &lt;quote&gt;Eskertzak&lt;/quote&gt; eta &lt;quote&gt;Eskaintzak&lt;/quote&gt; tituluak dituzten atal guztiak bateratu. &lt;quote&gt;Oniritziak&lt;/quote&gt; tituluak duten sezkio guztiak, aldiz, ezabatu egin behar dituzu.&lt;/para&gt;

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</para>
</sect1>

<sect1 id="fdl-section7" label="7">
<title>LAN INDEPENDENTEAK GAINERATZEA</title>
<pre><para>&lt;link linkend="fdl-document"&gt;Dokumentua&lt;/link&gt; edo dokumentuaren eratorriak beste dokumentu edo lan bereizi batzuekin batera elkartzea --biltegi-bolumen batean edo banaketarako euskarri batean-- ez da Dokumentuaren &lt;link linkend="fdl-modified"&gt;Bertso aldatu&lt;/link&gt;tzat jotzen bere osotasunean, non eta ez den konpilazioaren-gatik konpilazio-copyrightik eskatzen. Horrelako konpilazioei &lt;quote&gt;agregazio&lt;/quote&gt; esaten zaie, eta Lizentzia hau ez zaie aplikatuko Dokumentuarekin batera konpilazioan sartutako gainerako lanei, konpilazioan sartu izanagatik bakarrik, baldin eta ez badira Dokumentuaren lan eratorriak. &lt;link linkend="fdl-cover-texts"&gt;Azaleko testu&lt;/link&gt;ari dagokion &lt;link linkend="fdl-section3"&gt;3. ataleko&lt;/link&gt; betebeharra Dokumentuaren kopia hauei aplikatzerik baldin badago, Dokumentuak agregazioaren barnean biltzen duten azaletan bakarrik jar daitezke Azaleko testuak Dokumentua agregazio osoaren laurdena baino txikiagoa bada. Bestela, agregazio osoa inguratzen duten azaletan jarri behar dira testu horiek.</para>
</sect1>

<sect1 id="fdl-section8" label="8">
<title>ITZULPENA</title>
<pre><para>Itzulpena aldaketatzat jotzen da, eta, beraz, &lt;link linkend="fdl-document"&gt;Dokumentu&lt;/link&gt;aren itzulpenak &lt;link linkend="fdl-section4"&gt;4. ataleko&lt;/link&gt; baldintzen pean batanun ditzakezu. &lt;link linkend="fdl-invariant"&gt; Atal aldaezin&lt;/link&gt;en orde izultzen bitarteko, copyright-jabean baimena behar da, baina Atal aldaezin batzuen edo guztien itzulpenak jar ditzakezu Atal aldaezin horien jatorrizko bertsoioen batera. Lizentzia honen itzulpena ere jar dezakezu, baldin eta ingeleszko jatorrizko bertsoa ere jartzen baduzu. Lizentzia honen itzulpena eta jatorrizko ingeleszko bertsoia bat ez badatoz, jatorrizko bertsoak balioko du.</para>
</sect1>

<sect1 id="fdl-section9" label="9">
<title>AMAIERA</title>
<pre><para>Lizentzia honen baitan espresuki adierazitakoa betetzen ez bada, debekatuta dago &lt;link linkend="fdl-document"&gt;Dokumentu&lt;/link&gt;aren kopiaitzea, aldatzea, azpilizentziatzea edo banatzea. Dokumentua beste edozein eratan kopiatu, aldatu, azpilizentziatu edo banatzea saio oro deuseza izango da, eta Lizentzia honek ematen dizkizun eskubideak automatikoki kenduko zaizkizun. Dena den, Lizentzia honen pean zuregandik kopiak edo eskubideak jasoz dituztenei ez zaizkie lizentziak kenduko, baldintza guztiak betetzen dituzten bitartean.</para>
</sect1>

<sect1 id="fdl-section10" label="10">
<title>LIZENTZIA HONEN ETORKIZUNeko BERRIKUSPENAK</title>

<p&gt;Lizentziaren bertso bakoitzak bertso-bizik desberdindua dauka. &lt;link linkend="fdl-
Dokumentuaren zehazten bada Lizentzia honen bertsio-zenbaki jakin bat <quote>edo bertsio berriago bat</quote> dagokiola, zehaztutako bertsioko baldintzak edo Free Software Foundation-ek argitaratutako (ez zirriborro gisako) bertsio berriago bateko baldintzak betetzeko aukera izango duzu. Dokumentuak ez badu Lizentzia honen bertsio-zenbakirik zehazten, Free Software Foundation-ek argitaratutako bertsioetako edozein aukeratu dezakezu (baina ez zirriborro gisa argitaratutakoa).

</sect1>

<title>Eranskina</title>

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<blockquote>
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</blockquote>

<para><link linkend="fdl-invariant">Atal aldaezin</link>ik ez baduzu, idatzi <quote>Atal aldaezinik gabe</quote> aldaezinak zein diren adierazi beharrean. Ez baduzu <link linkend="fdl-cover-texts">Aurreko azaleko testu</link>r, idatzi <quote>Aurreko azaleko testurik gabe</quote> <quote>Aurreko azaleko testu hauekin: ZERRENDADA</quote> jarri beharrean, eta gauza bera <link linkend="fdl-cover-texts">Atzeko azaleko testu</link>ekin.</para>

<para>Zure dokumentuak programa-kodearen adibide ez-tribialik baldin badago, adibide horiek paraleloan argitaratzea gomendatzen dizugu eta zeuk aukeratu software librearen lizentzia eman nahi diezun, <ulink type="http" url="http://www.gnu.org/copyleft/gpl.html">GNU Lizentzia Publiko Orokorra</ulink> lizentzian esaterako, software libre gisa erabil ahal izan daitezzen.</para>

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<title>GNU Lesser General Public License</title>
</articleinfo>
A legtöbb szoftver licencéi azzal a szándékot tették, hogy minél kevesebb lehetőséget adjanak a szoftver megváltoztatásra és terjesztésre. Ezzel szemben a GNU GPL licenccsalja, hogy garantálja a szabad szoftver műsorkodásnak és terjesztésnek szabadsgát, ezáltal biztosítva a szoftver szabad felhasználhatóság minden felhasználó számára.

A jelen licencdokumentumot brki szabadon lemosolhatja s a pontos műsoraival terjesztheti, de a módosítást tilos.</para>

A legtöbb szoftver licencei azzal a szándékot tették, hogy minél kevesebb lehetőséget adjanak a szoftver megváltoztatásra és terjesztésre. Ezzel szemben a GNU GPL licenccsalja, hogy garantálja a szabad szoftver műsorkodásnak és terjesztésnek szabadsgát, ezáltal biztosítva a szoftver szabad felhasználhatóság minden felhasználó számára.

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brki szabadon módosíthassa a szoftvert, vagy felhasználhassa a rögzített szabad programokban; s hogy msok megismerhessek ezt a lehetséget.</para>

Ez a licenc, a Lesser General Public License (LGPL) vonatkozik a Free Software Foundation speciálisan kialakított szoftvercsomagjaira - jellemzén programknyvtrakra - illetve minden olyan szoftvercsomagra, amelynek szerzje gy dnt, hogy ezt használja a szerző jog megjelölésekor. n is használhatja, de azt javasoljuk, az alábbi magyarázatok alapja elszó gondolja t, hogy ez a licenc, vagy a szokós GPL (GNU General Public License) szint-e jobb kézdelmi stratégiának.</para>

A szabad szoftver megjells nem jelenti azt, hogy a szoftvernek nem lehet ra. A GPL licencek eljárására, hogy garantálja a szabad szoftver módosítóinak szabad terjesztét (s e szolgáltatottsak akár díj felszámítását), a forrásbeli elhetség, hogy brki szabadon módosíthassa a szoftvert, vagy felhasználhassa a rögzített szabad programokban; s hogy msok megismerhessek ezt a lehetséget. </para>

A szerző jogainak védelme korlátozásokat kell hozni, amelyek megtiltják, hogy brki megtagadhassa ezeket a jogokat mokt, vagy brki mst ezekről val lemondásra knyvszertsen. Ezek a megszorítszok bizonyos felelősségeket jelentenek azok szmra, akik a szoftver módosítait terjesztik vagy módosítják.</para>

Ha valaki pldul egy ilyen programknyvtr módosította terjesztéi, akr ingyen vagy bizonyos szeg fejben, a vonatkozó minden jogot tovább kell adnia a fogad feléknél. Biztostani kell tovább, hogy megkapják vagy legalábbis megkaphassák a forrásbelit is. s a jelen dokumentumban szerepl licencfelületeteket is el kell juttatni, hogy tiszta legyenek a jogaiakkal.</para>

A jogok védelme kől lll: (1) a programknyvtr szerző jogainak védelmelel (2) a jelen licenc biztosítja, amely jogalapot biztosít a programknyvtr módosításra, terjesztésre s/vagy módosításra.</para>

Az egyes terjesztők védelme világoss akarjuk tenni: a jelen szabad programknyvtrra nincs jöllés. Ha a programknyvtrat módosított és továbbít, akkor mindenkinek, aki a módostott változatot kapja, tudnia kell, hogy az nem az eredeti, gy a mokit alakozott hibknak nem lehet hatalma az eredeti szerz kinevre.</para>

Vgl, a szabad szoftver itt Ilandan fenyegetik a szoftverszabadalmak. El szeretnénk kerülni annak veszlyt, hogy a szabad program terjesztői szabadalmakat jegyezhessenek be r, ezáltal sajt széleli tulajdonsz pkez tegyek a programot. Ennek rdeken ragaszkodunk hozzá, hogy a programknyvtr egy változatát kapcsolatban megszerezett bővílet szabadalmi engedélynek szubhangban kell lennie a jelen licencben tagolt teljesen szabad használat.</para>

A legtöbb GNU szoftverre, belértve egyes programknyvtrakat is, a normál GNU General Public License (GPL) feltételei vonatkoznak. Ez a licenc, a GNU Lesser General Public License (LGPL), meghatározzott programknyvtrakra vonatkozik, s elgg eltr a normál GNU General Public License-t. Ezt a licencet azért alkalmazzuk bizonyos programknyvtrakhoz, hogy engedélyezhessék a beiktatás nem szabad programokba is. </para>

Az ilyen programok szieszzerkesztene egy programknyvtrral, függetlenül attól, hogy statikusan vagy egy megosztott programknyvtr használatát, a kettő kombináció jogilag kiz munkának, az eredeti programknyvtr leszmazottjainak szint. A normál GNU General Public License (GPL) feltételek ezért csak akkor engedi az ilyen szieszzerkesztést, ha a teljes kombináció megefél a szabad telitleinek. A GNU Lesser General Public License (LGPL) azonban kevés szigorú rendelkezéseknél kisnak a programknyvtrral szieszzerkesztésrıl.</para>

Azért <quote>Lesser</quote> General Public License-nek hívjuk ezt a licencet, mert kevesebb test a felhasználás szabadsgnak védelme rdekben, mint a normál GNU General Public License (GPL). Szintén kevesebb elnyt
nyit a tbbi szabadsofтвер-fejlesztnek a versenytrs, nem szabad programokkal szemben. Az ilyen elny miatt hasznljuk magunk is a norml GNU General Public License-t (GPL) szmos programknyvtrhoz. Nhny specilis esetben azonban a GNU Lesser General Public License (LGPL) hasznlata elnyeseb.</para>

<para>Ritkn ugyan, de plpl elfordulhat, hogy igy van egy meghatrozott programknyvtrnak a lehet legszlesebb krben trtn elterjesztsre, hogy az vlhasson a de facto szabvnny. Ehhez engedlyezni kell, hogy a nem szabad programok is hasznlassz a programknyvtrat. Gyakoribb eset az, hogy egy szabad programknyvtr ugyanazt a feladatot ltja el, mint a szles krben hasznlt nem szabad programknyvtrak. Ebben az esetben igen kevs elny szmazik a programknyvtr kizrlag szabad szoftverekben felhasznlrsa val korltozsnak, teht ilyenkor is az LGPL feltteleit hasznljuk.</para>

<para>Megint ms esetekben egy adott programknyvtr nem szabad programokban felhasznlnak engedlyezze azt jelenti, hogy tbb ember hasznalhat szabad szoftvert. Plpl a GNU C Programknyvtr felhasznlna nem szabad programokban azt jelenti, hogy sokkal tbb ember hasznalhatja a teljes GNU opercis rendszert, illetve annak vltozat, a GNU/Linux opercis rendszert.</para>

<para>Br az LGPL kevsb vdi a felhasznlnk szabadsgt, azt azonban garantlja, hogy a Programknyvtrral sszeszerkesztett program felhasznlnja jogosult legyen a program hasznlatra a Programknyvtr mdostott vltozatval is.</para>

<para>A molsra, terjesztsre s mdostsra vonatkoz pontos szabhok s felttelek az albbiakban olvashatik. Nagyon fontos megklnbzteti a <quote>programknyvtron alapul munka</quote> s a <quote>programknyvtrat felhasznln munka</quote> fogalmakat. Az elbbi a programknyvtrbl szmaz kdot tartalmaz, mg az utbbi a futshoz ignyli a programknyvtrat.</para>

<sect1 id="terms" label="none">
<title>A MSOLSRA, TERJESZTSRE S MDOSTSRA VONATKOZ FELTTELEK S KIKTSEK</title>

<sect2 id="sect0" label="0">
<title>0. szakasz</title>
<br>
<para>Ez a licenc minden olyan programknyvtra vagy egyg programra vonatkozik, amelyhez a szerzi jog tulajdonosa vagy egyg jogosult fl azt a megjegyzst ftze, hogy az a jelen LGPL-ben (ms nven a <quote>jelen Licencben</quote>) foglaltak alapjn terjeszhet. Minden engedlyezs cmzettje <quote>n</quote>. </para>

<para> <quote>Programknyvtr</quote> alatt fggvnyek s/vagy adatok olyan gyjtemnyt rtjk, amely gyjtemnyt rtjk, amely gy lett elkszte, hogy knyelmesen szzesperesztet legyen alkalmazsprogramokkal (amelyek a fggvnyek s az adatok egy rszt hasznljik), vgrehajthat fik elkszte. </para>

<para>Az albbiakban a <quote>Programknyvtr</quote> kifejez brmily ilyen programknyvtra vagy munkra vonatkozik, a <quote>Programknyvtron alapul munka</quote> pedig magt a Programknyvtrt vagy egy szerzi joggal vdett munkt jelenti: vagyis olyan munkt, amely tartalmazza a Programknyvtrt vagy annak egy rszlett, mdostva vagy mdosts nkll s/vagy ms nyelvre fordva. (Az albbiakban a fordts minden egyg megkts nkll beleartozik a <quote>mdosts</quote> fogalmba.)</para>

<para>Egy munka <quote>Forrskdj</quote> a munknak az a formtuma, amelyben a mdostsok elvgsze a legegyszerbben kivitelezhet. Egy programknyvtr esetben a teljes forrskd az Itlal tartalmazott sszes modul forrskdj
jelenti, valamint minden hozz tartoz illesztdefincis fjl, valamint a programknyvtr ford tst s teleptst szabloyz parancsjlokat.</para>

<para>A jelen Licenc a msolson, terjesztsen s mdostson kvl ms tevkenysgre nem vonatkozik, azok a hatlyn kvl esnek. A Programknyvtrat hasznl program futtatsa nincs korlozoa, illetve a program kimenetre is csak abban az esetben vonatkozik ez a szabloyozs, ha az tartalmazza a Programknyvtron alapul munka egy rszlett (fggetlenl attl, hogy a Programknyvtrat hasznlt-e egy eszkzben a megrshoz). Az, hogy ez igaz-e, a Programknyvtr, illetve a Programknyvtrat hasznl program mdksl fgg.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>1. szakasz</title>
<para>A Programknyvtr forrskdja mdosts nlkl msolhat s brmely adathordozn terjeszthet, feltve, hogy minden egyes plndyon pontosan szerepel a megfelel szerji jogi megjegyzs, illetve a garanciavllals elutasza; ritetlenl kell hagyni minden erre a szabloyozsra s a garancia teljes hinyra utal szveget s a jelen licencedokumentumot is el kell juttatni mindazokhoz, akik a Programknyvtrat kapj.</para>

<para>Felszmthat dj a mslat fizikai tovbbtsa fejben, illetve ellenszolgltats fejben garancilis tmogs is biztosthat.</para>

</sect2>

<sect2 id="sect2" label="2">
<title>2. szakasz</title>
<para>A Programknyvtr msolatai vagy azok egy rsze mdosthat, amely gy a Programknyvtron alapul munkt alkot. A mdosts ezutn az <link linkend="sect1">1. szakasz</link> adott felttelek szerint tovbb terjeszthet, ha az albbi felttelek is teljeslnek: <orderedlist numeration="loweralpha">
<li><para>A mdostott munknak magnak is programknyvtnak kell lennie.</para></li>
<li><para>A mdostott fjlokat el kell ltni olyan megjegyzssel, amely feltnteti a mdosts vgz nevt s a mdostsok dtumt.</para></li>
<li><para>A teljes munkt olyan szabloyokkal kell kiadni vagy terjeszteni, hogy annak hasznlati joga harmadik szemly rszre licencedjentenesen hozzfrhet legyen, a jelen Licencnek megfelelen.</para></li>
<li><para>Ha a mdostt Programknyvtr egy rsze egy olyan fggvnyre vagy adattblo hivatkozik, amelyet egy, az adott rszt hasznl alkalmazsprogram biztost, s nem egy tadott argumentumrl van sz annak meghvsakor, akkor mindent el kell kvetni annak rdekben, hogy amennyiben az alkalmazs nem biztstja a szksges fggvnyt vagy adattblt, az adott rsz akkor is mdklpes maradjon, s vgehajtsa, amit csak a mdksl addan elvgezhet.</para></li>
<li><para>(Ha pldul egy programknyvtr egy fggvnye nyugygyk szmt, akkor annak a clja teljesen jl definiit, az alkalmazstl fggetlenl. Vagyis a 2d alpont azt kveti meg, hogy a fggvny szmra az alkalmazs tal biztstott fggvny vagy adattbla opcionlis legyen: ha az alkalmazs nem biztst ilyet, a ngyzetygk fggvnynek akkor is ngyzetygkkel kell tudnia szmtani.)</para></li>
</orderedlist>

</sect2>
<sect2 id="sect1" label="1"><title>1. szakasz</title>

Ezek a feltételek a mdostott munkra, mint egysre vonatkoznak. Ha a munka azonosítható rszei nem a Programknyvtron alapulnak s független munkakként elkülöníti azonosítható, akkor ez a szabályozs nem vonatkozik ezekre a rszekre, amennyiben azok kln munkaknt kerlnk terjesztnek. Viszont, ha ugyanez a rs az egz rszeknt kerl terjesztstre, amely a Programknyvtron alapul munka, akkor az egz munka terjesztse csak a jelen dokumentum alapjkn lehetsges, amely ebben az esetben a jogokat minden egyes felhasznál szmra kiterjeszti a munka egyszre tekintet nkl arra, hogy melyik rszt ki rt.</sect1>

E szvegrsznek teht nem az a clja, hogy msok jogait elvegye vagy korltozza a kizrlag sajt maga ltal rt munkkr; a cl az, hogy a jogok gyakorlrsa szabályozva legyen a Programknyvtron alapul illetve a gyjtemnyes munkk terjesztse esetben.</sect2>

Ezenkvl ms munkknak, amelyek nem a Programknyvtron alapulnak, a Programknyvtrral (vagy a Programknyvtron alapul munkval) kzs adathordozn vagy adattroln szerepeltetse nem jelenti a jelen szablyok rvnyessgt azokra is.</sect2>

Miutn a mdosts megtrtn, az visszafordthatatlan az adott pldnrya vonatkozan, vagyis a GNU General Public License fog vonatkozni annak sszes tovbbi msolatra s az abbl a pldnbyl szrmaztatott sszes munkra.</sect2>

Ez a lehetsg akkor hasznos, ha a Programknyvtr kdjnak egy rszt egy olyan programba akarja illeszteni, amelyik nem programknyvtr.</sect2>

A Programknyvtr (vagy a programknyvtron alapul munka a <link linkend="sect2">2. szakasz</link> megfelelen) msohat s terjeszteth trgykd vagy vghrajthat kd formjban az <link linkend="sect1">1. s</link> s <link linkend="sect2">2. szakasz</link> s szakaszban foglaltak szerint, feltve, hogy a teljes, gp ltal rtlemezhet forrskd ksr az anyagot, amelynek terjesztse az<link linkend="sect1">1. s</link> s <link linkend="sect2">2. szakasz</link> szakaszban foglaltak szerint trtnik, jellemzen szoftverterjesztse hasznlt adathordozn.</sect2>

Ha a trgykd terjesztse azt jelenti, hogy lehetsg van lemslni egy meghatrozott helyr, akkor ez teljesti a forrskd terjesztstre vonatkoz ktelezettsget, br a harmadik felek nem telesek a forrskdot a trgykddal egytt lemslni.
Az olyan Programkönyvtrat, amely nem tartalmazza a Programkönyvtr semmilyen részek lesemzottját, de
gy készült, hogy a Programkönyvtrral együttkepjön, hozzáfords vagy hozzáféréses tön, <quote>Programkönyvtrat használ
munkának</quote> nevezzük. Az ilyen munkák előzetesen nem szükséges a Programkönyvtr szemzatotott munkának,
y a jelen Licenc hatályban kül esnek. </para>

Egy, a <quote>Programkönyvtrat használ munka</quote> s a Programkönyvtr szemzatotott azonban egy
olyan végrehajtható fel t eredményez, amelyik a Programkönyvtr szemzatotott munkja (hiszen tartalmazza a
Programkönyvtr részeit), nem pedig a <quote>Programkönyvtrat használ munka</quote>. A végrehajtható fel által
vonatkozik a jelen Licenc. A <link linkend="sect6">6. szakasz</link> tagjája az ilyen végrehajtható felak terjesztésnek
feltételeit.

Ha egy <quote>Programkönyvtrat használ munka</quote> egy olyan fejlesztői anyagot használja, amelyik a
Programkönyvtr része, akkor a munka trégykdja lehet a Programkönyvtr szemzatotott munkja, akkor is, ha maga a
forrás nem az. Az, hogy ez igaz-e, különben fontos, ha az adott munka szemzatotott munkahoz a Programkönyvtr része
is, vagy ha a munka nagyobb is egy programkönyvtr. Azt, hogy ez mikor igaz, a trény nem szabályozza pontosan.

Ha egy ilyen objektumfájl csak numerikus paramétereket, adatstruktura-elrendezéseket, -hozzáféréseket, kisebb
makrkat és kisebb begyazott függvényeket (nem több, mint két könyvtár) használ, akkor az objektumfájl hasznalata nem
korlátozott, független attól, hogy szemzatotott munka-e vagy sem. (A trégykdott s a Programkönyvtr része
tartalmaz végrehajtható felak továbbra is a <link linkend="sect6">6. szakasz</link> hatálya al tartoznak.)

Ellenkező esetben, ha a munka a Programkönyvtr szemzatotott munkja, akkor a trégykdja terjeszthet a <link
linkend="sect6">6. szakasz</link> feltételeinek megfelelően. A munka tartalmaz végrehajtható fel ak szintén a <link
linkend="sect6">6. szakasz</link> hatálya al esnek, akkor is, ha a hozzájuk összekapcsolható a Programkönyvtrral
szemzatotott munkával.

A fenti szakaszok kivételként egy, a <quote>Programkönyvtrat használ munka</quote> egyesthet vagy
szemzatotott munkával, hogy ltrejzett egy olyan munka, amely tartalmazza a Programkönyvtr részeit, s az
ilyen munka terjeszthet az n ítál vlasztott feltételek szerint is, feltéve, hogy ezek a feltételek megengedik a munka
szabad módosítását a vsl sajt hasznalatára s az ilyen módosítások hibakeresztre szolgál visszafejti. 

A munka minden egyes pldnny t megfelelően jelzési kell, hogy a Programkönyvtr használja, s hogy a
hasznalatot a jelen Licenc szabályozza. Melléknei kell a jelen Licenc egy pldnnyt. Ha a munka végrehajts kben szerzi
jogi megjegyzéseket jelent meg, akkor ezek két szerepelnek kell a Programkönyvtr szerzi jogi megjegyzéseknak is,
valamint egy hivatkozásnak, amely a felhasznált a jelen Licenc egy pldnnyhoz irányítja. Tovább az alábbiak egyik
biztosítani kell: orderedlist numeration="loweralpha">

A munka mell mellékleti kell a Programkönyvtr teljes, gppel olvasható forráskijt, jelzéshez, hogy a

Egy megfelel megosztott Programknyvvr-mechanizmus használata a Programknyvvrval s szszèresztszhez. Megfelel mechanizmus az olyan, amely (1) futsi idben a programknyvvr egy, mr a felhaszn szmtgprendszen megtallhat pldn yt hasznla, nem pedig bemsolja a programknyvvr egyes fggvnyeit a vgrejhatat fjba, tovbb (2) megfelelen mkdik a programknyvvr mdostott vttozatval is, ha a felhasznl egy olyat telept, feltve, hogy a mdostott verzi interfse kompatibilis azzal a verzival, amelyikkel a munka kszlt.</para>

A munkhoz egy legalbb hrom vig rnyes rsos ajnlat mellkelse, hogy ugyanazon felhaszn szmra a <link linkend="sect6a">6.a alszakaszban</link> meghatrozott anyagokat biztostja, nem nagyobb dfot, mint a jelen terjeszts dja.</para>

Vgrehajhat fjl esetben a <quote>Programknyvvrat hasznl munka</quote> elvrt formjnak tartalmaznia kell minden adatot s segdprogramot, amelyre szksg van a bellk szrmaz vgrejhatat fj ellhtshoz. Specilis kivetlkn a terjesztett anyagoknak nem kell semmi olyat tartalmaznia, amelyek norml esetben azon opercis rendszer f rszeivel (fordt, kernel stb.) egytt kerlnek terjesztsre (akr forrskdnt, akr binris formban), amelyen a vgrejhatat fj futni fog, kivve, ha a komponens maga a vgrejhatat fjllal egytt rkezik. </para>

Elfordulhat, hogy ez a kvetelmny ellentmond ms szellemi tulajdont kpez programknyvvrak licencorltozsainak, amelyek norml esetben nem jrnak az opercis rendszer mell. Az ilyen ellentmonds azt jelenti, hogy nem hasznhatja azokat s a Programknyvvrat egytt egy terjeszteni kvnt vgrejhatat fjban.</para>

A munkhoz egy legalbb hrom vig rnyes rsos ajnlat mellkelse, hogy ugyanazon felhaszn szmra a <link linkend="sect6a">6.a alszakaszban</link> meghatrozott anyagokat biztostja, nem nagyobb dfot, mint a jelen terjeszts dja.</para>

A munkhoz egy legalbb hrom vig rnyes rsos ajnlat mellkelse, hogy ugyanazon felhaszn szmra a <link linkend="sect6a">6.a alszakaszban</link> meghatrozott anyagokat biztostja, nem nagyobb dfot, mint a jelen terjeszts dja.
<sect2 id="sect8" label="8">
<title>8. szakasz</title>
<para>A Programknyvtrat csak a jelen Licencben lertaknak megfelelen szabad lemsolni, terjeszteni, mdostani s allicencbe adni. Az egyb mdon val msols, mdosts, terjeszts s allicencbe ads rvnytelen, s azonnal rvnytelen a dokumentumban biztosott jogosultsgokat. Mindazonlt azok, akik a Licencet megszegtl kaptak pldnyokat vagy jogokat, tovb gyakorolhatják a Licenc Ittal meghatrozott jogaikat mindaddig, amg teljes mrtkben megfelelnek a Licenc feltteleinek. </para>
</sect2>

<sect2 id="sect9" label="9">
<title>9. szakasz</title>
<para>Nem ktelez elfogadnia ezt a szablyozst, hiszen nem rta al. Ezen kvl viszont semmi ms nem ad jogokat a Programknyvtr vagy a szrmaztatott munkk terjesztsre s mdostsra. Ezeket a cselekedeteket a trvny bnteti, ha nem a jelen szerzi jogi szablyozs keretei kztt trtnnek. Mindezek miatt a Programknyvtr (vagy a Programknyvtron alapul munka) terjeszts vagy mdosta a jelen dokumentum szablyainak, s azon bell a Programknyvtr vagy a munka mdostsra, msolsra vagy terjesztsre vonatkoz sszes felttelnek elfogadst jelenti. </para>
</sect2>

<sect2 id="sect10" label="10">
<title>10. szakasz</title>
<para>Minden alkalommal, amikor a Programknyvtr (vagy az azon alapul munka) tovbbadsa trtnik, a Programknyvtrat megkap szemly automatikusan hozzjut az eredeti licencutalajdonostl szrmaz licenchez, amely a jelen szablyok szerint biztosja a jogot a Programknyvtr msolsra, terjesztsre, szerkesztshez felhasznlsra s mdostsra. Nem lehet semmilyen mdon tovbb korltozni a fogad flnek az itt megadott jogait. A Programknyvtr tovbbadja nem feels harmadik szemlyekkel betartatni a jelen szablyokat. </para>
</sect2>

<sect2 id="sect11" label="11">
<title>11. szakasz</title>
<para>Ha brsgi hatrozat, szabadalomsrts vleme, vagy egyb (nem kizrlag szabadalmakkal kapcsolatos) okbl olyan feltteleknek kell megfelelnie (akr brsgi hatrozat, akr megallpods, akr brmi ms eredmnyekpp), amelyek
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<para>Ha ennek a szakasznak brmely rsze rvnytelen, vagy nem rvnyesthet valamely krlmny folytn, akkor a szakasz fennmarad rszt kell alkalmazni, egyb esetekben pedig a szakasz egsze alkalmazand.</para>

<para>Ennek a szakasznak nem az a clja, hogy a szabadalmak vagy egyb hasonli jogok megsrtsre sztnzzn brkit is; mindssze meg szeretn vdeni a szabad szoftver terjeszttsi rendszernek egysgt, amelyet a szabad kreadst szablyoz felttelrendszernek teremtenek meg. Sok ember nagymrtkben jrult hozz az e rendser keretben terjesztett, kifile szoftverekhez, s szmt a rendser kvetkezetes alkalmazsra; azt a szerz/adomnyoz dnti el, hogy a szoftvert ms rendser szerint is kzz kvjja-e tenni, s a licencet kapk ezt nem befolysohatj.</para>

<para>E szakasz clja, hogy pontosan tiszttzza azt, ami elgondolsunk szerint a jelen licenc tbbi rsznek a kvetkezmnye.</para>

<sect2 id="sect12" label="12">
<title>12. szakasz</title>

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<sect2 id="sect13" label="13">
<title>13. szakasz</title>

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<sect2 id="sect14" label="14">
<title>14. szakasz</title>

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</sect2>

<sect2 id="sect15" label="15">
<title>GARANCIAVLLALS HINYA</title>
<subtitle>15. szakasz</subtitle>

<formula><para>MIVEL A JELEN PROGRAMKNYVTR HASZNLATI JOGA DJMENTES, AZ ALKALMAZHAT JOGSZABLYOK LTAL BIZTOSTOTT MAXIMLIS MRTKBEN VISSZAUTASTJUK A PROGRAMKNYVTRHOZ A GARANCIA BIZTOSTST. AMENNYIBEN A SZERZI JOGOK TULAJDONOSAI RSBN MSKNT NEM NYILATKOZNAK, A PROGRAMKNYVTR A JELEN LLAPOTBAN KERL KIADSRA, MINDENFLE GARANCIAVLLALS NLKL, LEGYEN AZ KIFEJEZETT VAGY BELERTETT, BELERTVE, DE NEM KIZRLAGOSAN A FORGALOMBAHOZHATSGRA VAGY ALKALMAZHATSGRA VONATKOZ GARANCIKAT. A PROGRAMKNYVTR MINSGBL S MKDSBL FAKAD SSZES KOCKZAT A FELHASZNLT TERHELI. HA A PROGRAMKNYVTR HIBSAN MKDIK, A FELHASZNLNNAK MAGNAK KELL VLLALNIA A JAVTSHOZ SZKSGES MINDEN KLTSGET.</para>
</sect2>

<sect2 id="sect16" label="16">
<title>16. szakasz</title>

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Les llicencies de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrariament, les Llicencies pbliques generals de GNU estan pensades per a garantir-vos la llibertat de compartir i modificar el programari lliure, per tal d'assegurar que el programari sigui lliure per a tots els seus usuaris i usuries.

Quan parlem de programari lliure ens referim a la llibertat, no al preu. Les nostres llicencies pbliques generals estan pensades per assegurar que tinguem la llibertat de distribuir cpies del programari lliure (i de cobrar per aquest servei, si voleu); que rebeu el codi font o que, si el voleu, el pugueu rebre; que pugueu modificar el programari o fer-ne servir parts en programes lliures nous; i que sapigueu que podeu fer totes aquestes coses.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.
Per protegir els vostres drets, cal que apliquem restriccions que prohibeixin a tothom de negar-vos aquests drets o demanar-vos que hi renunciïeu. Aquestes restriccions suposen determinades responsabilitats per a vs si distribueu còpies del programari o si el modifiqueu.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.
When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a
work based on the library and a work that uses the library. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called this License). Each licensee is addressed as you.

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

The Library, below, refers to any such software library or work which has been distributed under these terms. A work based on the Library means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term modification.)

Source code for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

</sect2>

</sect2>

<sect2 id="sect1" label="1">
<title>Secci 1</title>

<para>Podeu copiar i distribuir còpies literals del codi font de la biblioteca tal com el rebue, en qualsevol mitjà, sempre que publiquéu en cada còpia, de manera adient i ben visible, una nota de copyright i una renúncia de garantia; manteniu intactes tots els avisos que fan referència a aquesta llicència i a l'absència de garanties de cap mena; i distribueu una còpia d'aquesta llicència juntament amb la biblioteca.</para>

<para>Podeu cobrar un preu per l'acte físic de trametre una còpia i podeu, si així ho voleu, oferir alguna garantia a canvi d'un preu.</para>

</sect2>

</sect2>

<sect2 id="sect2" label="2">
<title>Secci 2</title>

<para>Podeu modificar la còpia o còpies de la biblioteca o qualsevol tros de la biblioteca i, així, fer una obra basada en la biblioteca, i podeu copiar i distribuir aquestes modificacions o obres sota els termes de la Secció 1 anterior, sempre que també compliu les condicions següents: <ol numeration="loweralpha">
    <li>The modified work must itself be a software library.</li>
    <li>You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.</li>
    <li>If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of
its purpose remains meaningful.
</para>

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

<para>Aquests requeriments afecten l'obra modificada com un tot. Si hi ha parts identificables que no estan derivades de la biblioteca, i es poden considerar raonablement com a obres independents i separades en si mateixes, aleshores aquesta llicència i els seus termes no s'apliquen a aquelles parts quan les distribueu com a obres separades. Per quan distribueu aquestes mateixes parts integrades en un tot que sigui una obra basada en la biblioteca, la distribució del tot s'ha de fer d'acord amb els termes d'aquesta llicència, i els permisos atorgats a altres beneficiaris abasten el tot sencer i, per tant, totes i cadascuna de les parts, independentment de qui les hagi escrites. </para>

<para>Això doncs, la intenció d'aquesta sec ció no s' reclama o disputa-vos cap dret a codi que haguéu escrit del tot vs mateix. La intenció és aviat exercir el dret a controlar la distribució d'obres derivades o collectives basades en la biblioteca.</para>

<para>In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
</para>

<sect id="sect3" label="3">
<title>Secció 3</title>

<para>You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
</para>
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a work that uses the Library. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a *work that uses the Library* with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a *work that uses the library*. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

As an exception to the Sections above, you may also combine or link a *work that uses the Library* with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

No esteu obligat a acceptar aquesta llicncia, ja que no l'heu signada. Tanmateix, no hi ha cap altra opció que us doni permis per modificar o distribuir la biblioteca o les seves obres derivades. Aquestes accions queden prohibides per la llei si no accepteu aquesta llicncia. Això doncs, en modificar o distribuir la biblioteca o les seves obres derivades, indiqueu que accepteu aquesta llicncia per a fer-ho, i tots els seus termes i condicions per copiar, distribuir o modificar la biblioteca o obres que hi estiguin basades.

Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients’ exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

<sect2 id="sect11" label="11">
<title>Secci 11</title> 

<para>Si, a conseqüència d'una decisi judicial, una demanda per infracció d'una patent o per qualsevol altra raó (no exclusivament relacionada amb patents), se us imposen condicions (tant si s per ordre judicial, acord, o el que sigui) que contraduguin les condicions d'aquesta llicència, no quedeu excusat de les condicions d'aquesta llicència. Si no us s possible distribuir de manera que satisfueu aquestes obligacions que us imposa aquesta llicència i qualsevol altra obligació pertinent, aleshores no podeu distribuir el programa en absolut. Per exemple, si una llicència de patent no permet redissituir gratuïtament la biblioteca a aquells que hagin rebut còpies de vs directament o indirectament, aleshores la nica manera en què podreu satisfar tant així com aquesta llicència seria abstenir-vos completament de distribuir la biblioteca.</para>

<para>Si qualsevol fragment d'aquesta secció queden invalidat o no es pogués fer complir en qualsevol circumstància particular, la intenció és que s'apliqui el balan de la secció, i que s'apliqui la secció en la seva totalitat en altres circumstàncies.</para>

<para>El propòsit d'aquesta secció no s'induirà a infringir cap patent ni cap altre requeriment del dret a la propietat, o a discutir-ne la validesa; l'inc propòsit d'aquesta secció és protegir la integritat del sistema de distribució de programari lliure, que s'implementa amb pràctiques de llicència pública. Molta gent ha fet generoses contribucions a l'ampli ventall de programari distribuït per aquest sistema refiant-se de l'aplicació consistent del sistema; li pertoca a l'autor, autora o donant decidir si vol distribuir programari per algun altre sistema, i un beneficiari de la llicència no pot imposar aquesta elecció.</para>

<para>Aquesta secció pretén deixar del tot clar el que es considera una conseqüència de la resta de la llicència.</para>

<sect2 id="sect12" label="12">
<title>Secci 12</title>

<para>Si hi ha pasos que restringeixen la distribució o l's de la biblioteca, ja sigui per patents o per interfeccions sota copyright, el possessor del copyright original que posi la biblioteca sota aquesta llicència pot afegir limitacions geogràfiques explícites que exclouin aquests pasos, de manera que la distribució només quedi permesa dins dels pasos no exclosos, o entre ells. En tal cas, aquesta llicència incorpora la limitació com si estigués escrita en el text de la llicència.</para>

<sect2 id="sect13" label="13">
<title>Secci 13</title>


The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and any later version, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

ATS QUE LA BIBLIOTECA T UNA LLICNCIA GRATUTA, NO SE N'OFEREIX CAP TIPUS DE GARANTIA, EN LA MESURA PERMESA PER LES LLEIS APLICABLES. LLEVAT DELS CASOS EN QU S'AFIRMI EL CONTRARI PER ESCRIT, ELS LLICENCADORS I/O LES ALTRES PARTS OFEREIXEN LA BIBLIOTECA <quote>TAL COM S</quote>, SENSE CAP TIPUS DE GARANTIA, NI EXPLCITA NI IMPLCITA; AIX INCLU, SENSE LIMITAR-SHI, LES GARANTIES IMPLCITES DE COMERCIALITZACI I ADEQUACI A UN S CONCRET. TOT EL RISC PEL QUE FA A LA QUALITAT I RENDIMENT DE LA BIBLIOTECA S VOSTRE. EN CAS QUE LA BIBLIOTECA RESULTS DEFECTUOSA, VS ASSUMIU TOT EL COST D'ASSISTNCIA, REPARACI O CORRECCI.
Secci 16

<para>A qualquer pessoa permitido copiar e distribuir cópias desse documento de licença, desde que sem qualquer alteração.</para>
</releaseinfo>

<abstract role="description">
<para>As licenças de muitos softwares são desenvolvidas para restringir sua liberdade de compartilhá-lo e mudá-lo. Contrária a isso, a Licença Pública Geral GNU pretende garantir sua liberdade de compartilhar e alterar software livres -- garantindo que o software será livre e gratuito para os seus usuários.</para>
</abstract>

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<sect1 id="preamble" label="none">
<title>Preambulo</title>

<para>As licenças de muitos software são desenvolvidas para restringir sua liberdade de compartilhar e mudá-lo. Contrária a isso, a Licença Pública Geral GNU pretende garantir sua liberdade de compartilhar e alterar softwares livres -- garantindo que o software será livre e gratuito para os seus usuários. Esta Licença Pública Geral aplica-se a maioria dos softwares da Free Software Foundation e a qualquer outro programa cujo autor decida aplicá-la. (Alguns outros softwares da FSF não são cobertos pela Licença Pública Geral de Bibliotecas, no entanto.) Você pode aplicá-la também aos seus programas.</para>

<para>Quando nos referimos a software livre, estamos nos referindo a liberdade, e não a preço. As nossas Licenças Públicas Gerais foram desenvolvidas para garantir que você tenha a liberdade de distribuir cópias de softwares livres (e cobrar por este serviço, se quiser); que você receba o código-fonte ou tenha acesso a ele, se quiser; que você possa alterar o software ou utilizar partes dele em novos programas livres; e que você saiba que pode fazer tudo isso.</para>

<para>Para proteger seus direitos, precisamos fazer restrições que impeçam a qualquer um negar estes direitos ou solicitar que você abdique deles. Estas restrições traduzem-se em certas responsabilidades para você, se você for distribuir cópias do software ou modificá-lo.</para>

<para>Por exemplo, se você distribuir cópias de um programa, gratuitamente ou por alguma quantia, você tem que fornecer aos receptores todos os direitos que você possui. Você tem que garantir que eles também recebam ou possam
Obter o código-fonte. E você tem que mostrar-lhes estes termos para que eles possam conhecer seus direitos.</para>

Ns protegemos seus direitos em dois passos: <orderedlist numeration="arabic">
<li><para>com direitos autorais do software; e</para></li>
<li><para>com a oferta desta licença, que lhe d permissão legal para copiar, distribuir e/ou modificar o software.</para></li>
</orderedlist></para>

Além disso, tanto para a proteção de cada autor quanto a nossa, gostaríamos de nos certificar de que todos entendam que no h qualquer garantia nestes softwares livres. Se o software modificado por algum mais e passado adiante, queremos que seus recebedores saibam que o que eles obtiveram não original, de forma que qualquer problema introduzido por terceiros não interfira na reputação do autor original.</para>

Finalmente, qualquer programa livre ameaçado constantemente por patentes de software. Queremos evitar o perigo de que redistribuidores de software livre obtenham individualmente licenças de patentes, o que teria o efeito de tornar o programa proprietário. Para prevenir isso, deixamos claro que qualquer patente tem que ser licenciada para uso livre e gratuito por qualquer pessoa, ou ento que não seja licenciada.</para>

Os precisos termos e condições para cópia, distribuição e modificação se encontram abaixo.</sect1>

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Esta Licença se aplica a qualquer programa ou outro trabalho que contenha um aviso colocado pelo detentor dos direitos autorais informando que aquele pode ser distribuído sob as condições desta Licença PÚBLICA GERAL. O Programa abaixo refere-se a qualquer programa ou trabalho, e trabalho baseado no Programa significa todo o Programa em si como quaisquer trabalhos derivados, de acordo com a lei de direitos autorais: isto quer dizer um trabalho que contenha o Programa ou parte dele, tanto originalmente quanto com modificações, e/ou tradução para outro idioma. (Doravante tradução est incluído sem limites no termo modificação.) Cada licenciado mencionado como voc.</para>

Atividades alm de cópia, distribuição e modificação no esto cobertas por esta Licença; elas esto fora de seu escopo. O ato de executar o Programa no restrito, e o resultado do Programa coberto apenas se seu conteúdo contenha trabalhos baseados no Programa (independentemente de terem sido gerados pela execução do Programa). Se isso verdadeiro depende do que o Programa faz.</sect2>

Voc pode copiar e distribuir cópias físicas do código-fonte do Programa da mesma forma que voc o recebeu, usando qualquer meio, desde que voc conspçua e apropriadamente publique em cada cópia um aviso de direitos.
Voc pode cobrar pelo ato físico de transferir uma cópia e pode, opcionalmente, oferecer garantia em troca de pagamento.</para>

Voc pode modificar sua cópia ou cópias do Programa, ou qualquer parte dele, assim gerando um trabalho baseado no Programa, e copiar e distribuir essas modificações ou trabalhos sob os termos da <link linkend="sect1">Seção 1</link> acima, desde que você também se atenda a todas estas condições: <orderedlist numeration="loweralpha">

<li>Você tem que fazer com que os arquivos modificados levem avisos proeminentes afirmando que você alterou os arquivos, incluindo a data de qualquer alteração.</li>

<li>Você tem que fazer com que quaisquer trabalhos que você distribua ou publique, e que integralmente ou em partes contenham ou sejam derivados do Programa ou de suas partes, sejam licenciados, integralmente e sem custo algum para quaisquer terceiros, sob os termos desta Licença.</li>

<li>Se o programa modificado normalmente l comandos interativamente quando executados, você tem que fazer com que, quando iniciado tal uso interativo da forma mais simples, seja impresso ou mostrado um anúncio de direitos autorais um e anúncio de que não há qualquer garantia (ou então, que você fornece a garantia) e que os usuários podem redistribuir o programa sob estas condições, ainda informando os usuários como consultar uma cópia desta Licença. <note>

<title>Exceção:</title>

<p>Se o Programa em si é interativo mas normalmente não imprime estes tipos de anúncios, seu trabalho baseado no Programa no precisa imprimir um anúncio.</p>

</note></li>

<li>Estas exigências aplicam-se ao trabalho modificado como um todo. Se seus identificáveis de tal trabalho no forem derivados do Programa, e que podem ser razoavelmente consideradas trabalhos independentes e separados por si, então esta Licença, e seus termos, no se aplicam a esses seíss quando você distribui-los como trabalhos em separado. Mas quando você distribuir as mesmas seíss como parte de um todo, o qual baseado no Programa, a distribuição como um todo deve que se enquadrar nos termos desta Licença, cujas permissões para outros licenciados se estendem ao todo, portanto para cada e toda parte, independente de quem a escreveu.</li>

<li>Desta forma, esta seio no tem a intenção de reclamar direitos ou contestar seus direitos sobre o trabalho escrito inteiramente por você; ao invés disso, a intenção é de exercitar o direito de controlar a distribuição de trabalhos, derivados ou coletivos, baseados no Programa.</li>

<li>Adicionalmente, a mera agregação ao Programa de outro trabalho no baseado no Programa (ou de trabalho

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 46404
baseado no Programa) em um volume de armazenamento ou meio de distribuição no faz o outro trabalho parte do escopo desta Licença.</para>
</sect2>

<sect2 id="sect3" label="3">
<title>Seo 3</title>

<para>Você pode copiar e distribuir o Programa (ou um trabalho baseado nele, conforme descrito na <link linkend="sect2">Seo 2</link>) em código-objeto ou em forma executável sob os termos das <link linkend="sect1">Sees 1</link> e <link linkend="sect2">2</link> acima, desde que você também faça um dos seguintes itens: <orderedlist numeration="loweralpha">
<li><para>O acompanhe com o código-fonte completo correspondente e em forma acessível por máquinas, que deve ser distribuído sob os termos das <link linkend="sect1">Sees 1</link> e <link linkend="sect2">2</link> acima e em meio normalmente utilizado para o intercâmbio de software; ou,</para></li>
<li><para>O acompanhe com uma oferta expressa, válida por pelo menos três anos, de fornecer a qualquer terceiros, com um custo no superior ao custo de distribuição física do material, uma cópia do código-fonte completo e em forma acessível por máquinas, que deve ser distribuído sob os termos das Sees 1 e 2 acima e em meio normalmente utilizado para o intercâmbio de software; ou,</para></li>
<li><para>O acompanhe com a informação que você recebeu em relação oferta de distribuição do código-fonte correspondente. (Esta alternativa permitida somente em distribuição no comercial, e apenas se você recebeu o programa em forma de código-objeto ou executável, com oferta, de acordo com a Subseo b acima.)</para></li>
</orderedlist>

<para>O código-fonte de um trabalho corresponde forma de trabalho preferida para se fazer modificações. Para um trabalho em forma executável, o código-fonte completo significa todo o código-fonte de todos os módulos que ele contém, mais quaisquer arquivos de definição de "interface", mais os "scripts" utilizados para se controlar a compilação e a instalação do executável. Contudo, como exceção especial, o código-fonte distribuído no precisa incluir qualquer componente normalmente distribuído (tanto em forma original quanto binária) com os maiores componentes (o compilador, o "kernel" etc.) do sistema operacional sob o qual o executável funciona, a menos que o componente em si acompanhe o executável.</para>

<para>Se a distribuição do executável ou código-objeto feita através da oferta de acesso a cópias de algum lugar, ento ofertar o acesso equivalente a cópia, do mesmo lugar, do código-fonte equivale distribuição do código-fonte, mesmo que terceiros no sejam compelidos a copiar o código-fonte com o código-objeto.</para>
</sect2>

<sect2 id="sect4" label="4">
<title>Seo 4</title>

<para>Você não pode copiar, modificar, sub-licenciar ou distribuir o Programa, exceto de acordo com as condições expressas nesta Licença. Qualquer outra tentativa de cópia, modificação, sub-licenciamento ou distribuição do Programa vedado, e cancelar automaticamente os direitos que lhe foram fornecidos por esta Licença. No entanto, terceiros que
receberam cpias ou direitos, fornecidos por voc sob os termos desta Licena, no tero suas licenas canceladas, desde que permaneem em total concordncia com ela.</para>
</sect2>

<sect2 id="sect5" label="5">
<title>Seo 5</title>

<para>Voc no  obrigado a aceitar esta Licena, j que no a assinou. No entanto, nada mais o dar permisso para modificar ou distribuir o Programa ou trabalhos derivados deste. Estas eas so proibidas por lei, caso voc no aceite esta Licena. Desta forma, ao modificar ou distribuir o Programa (ou qualquer trabalho derivado do Programa), voc estar indicando sua total aceitao desta Licena para faz-los, e todos os seus termos e condies para copiar, distribuir ou modificar o Programa, ou trabalhos baseados nele.</para>
</sect2>

<sect2 id="sect6" label="6">
<title>Seo 6</title>

<para>Cada vez que voc redistribuir o Programa (ou qualquer trabalho baseado nele), os recebedores adquiriro automaticamente do licenciador original uma licena para copiar, distribuir ou modificar o Programa, sujeitos a estes termos e condies. Voc no poder impor aos recebedores qualquer outra restrio ao exercicio dos direitos ent adquiridos. Voc no  responsvel em garantir a concordncia de terceiros a esta Licena.</para>
</sect2>

<sect2 id="sect7" label="7">
<title>Seo 7</title>

<para>Se, em consequncia de decises judiciais ou alegaes de infringimento de patentes ou quaisquer outras razes (no limitadas a assuntos relacionados a patentes), condies forem impostas a voc (por ordem judicial, acordos ou outras formas) e que contradigam as condies desta Licena, elas no o livram das condies desta Licena. Se voc no puder distribuir de forma a satisfazer simultaneamente suas obrigaes para com esta Licena e para com as outras obrigaes pertinentes, ento como consequencia voc no poder distribuir o Programa. Por exemplo, se uma licena de patente no permitir a redistribuição, livre de “royalties”, do Programa, por todos aqueles que receberem cpias directa ou indiretamente de voc, ento a nica forma de voc satisfazer a ela e a esta Licena seria a de desistir completamente de distribuir o Programa.</para>

<para>Se qualquer parte desta seo for considerada invlida ou no aplicvel em qualquer circunstncia particular, o restante da seo se aplica, e a seo como um todo se aplica em outras circunstncias.</para>

<para>O propsito desta seo no  o de induzi-lo a infringir quaisquer patentes ou reivindicaes de direitos de propiedade outros, ou a contestar a validade de quaisquer dessas reivindicaes; esta seo tem como nico propsito proteger a integridade dos sistemas de distribuição de software livres, o que implementado pela prtica de licenas pblicas. Vrias pessoas tm contribuido generosamente e em grande escala para os software distribuidos usando este sistema, na certeza de que sua aplicao feita de forma consistente; fica a critio do autor/doador decidir se ele ou ela est disposto a distribuir software utilizando outro sistema, e um licenciado no pode impor qualquer escolha.</para>

<para>Esta seo destina-se a tornar bastante claro o que se acredita ser consequencia do restante desta Licena.</para>
</sect2>
<sect id="sect8" label="8">
<title>Seo 8</title>

<para>Se a distribuição e/ou uso do Programa so restringidos em certos países por patentes ou direitos autorais, o detentor dos direitos autorais original, e que colocou o Programa sob esta Licença, pode incluir uma limitação geográfica de distribuição, excluindo aqueles países de forma a tornar a distribuição permitida apenas naqueles ou entre aqueles países ento no excluídos. Nestes casos, esta Licença incorpora a limitação como se a mesma constasse escrita nesta Licença.</para>

</sect>

<sect id="sect9" label="9">
<title>Seo 9</title>

<para>A Free Software Foundation pode publicar versões revisadas e/ou novas da Licença Pública Geral de tempos em tempos. Estas novas versões serão similares em espírito, versão atual, mas podem diferir em detalhes que resolvem novos problemas ou situações.</para>

<para>A cada uma dada um número distinto. Se o Programa especifica um número de versão específico desta Licença que se aplica a ele e a "qualquer nova versão", você tem a opção de aceitar os termos e condições daquela versão ou de qualquer outra versão publicada pela Free Software Foundation. Se o Programa não especifica um número de versão desta Licença, você pode escolher qualquer versão já publicada pela Free Software Foundation.</para>

</sect>

<sect id="sect10" label="10">
<title>Seo 10</title>

<para>Se você pretende incorporar partes do Programa em outros programas livres, cujas condições de distribuição são diferentes, escreva ao autor e solicite permissão. Para o software que a Free Software Foundation detêm direitos autorais, escreva Free Software Foundation; às vezes nos permitimos exceções a este caso. Nossa decisão será guiada pelos dois objetivos de preservar a condição de liberdade de todas as derivadas do nosso software livre, e de promover o compartilhamento e reutilização de software em aspectos gerais.</para>

</sect>

<a name="ausncia-de-garantias"></a>
<sect id="sect11" label="11">
<title>AUSNCIA DE GARANTIAS</title>

<subtitle>Seo 11</subtitle>

<para>UMA VEZ QUE O PROGRAMA LICENCIADO SEM NUS, NO H QUALQUER GARANTIA PARA O PROGRAMA, NA EXTENSO PERMITIDA PELAS LEIS APLICVEIS. EXCETO QUANDO EXPRESSADO DE FORMA EXPRESSA, OS DETENTORES DOS DIREITOS AUTORAIS E/OU TERCEIROS DISPONIBILIZAM O PROGRAMA "NO ESTADO", SEM QUALQUER TIPO DE GARANTIAS, EXPRESSAS OU IMPLÍCITAS, INCLUINDO, MAS NO LIMITADO A, AS GARANTIAS IMPLÍCITAS DE COMERCIALIZAÇAO E AS DE ADEQUAO A QUALQUER PROPSITO. TODO O RISCO RELACIONADO QUALIDADE E DESEMPENHO DO PROGRAMA SEU. SE O PROGRAMA SE MOSTRAR DEFEituoso, VOC ASSUME OS CUSTOS DE TODAS AS MANUTENES, REPAROS E CORREES.</para>

</sect>
EM NENHUMA OCASÃO, A MENOS QUE EXIGIDO PELAS LEIS APLICÁVEIS OU ACORDO EXPRESSO, OS DETENTORES DOS DIREITOS AUTORAIS, OU QUALQUER OUTRA PARTE QUE POSSA MODIFICAR E/OU REDISTRIBUIR O PROGRAMA CONFORME PERMITIDO ACIMA, SERÃO RESPONSABILIZADOS POR VOCÊ POR DANOS, INCLUINDO QUALQUER DANO EM GERAL, ESPECIAL, ACIDENTAL OU CONSEQUENTE, RESULTANTES DO USO OU INCAPACIDADE DE USO DO PROGRAMA (INCLUINDO, MAS NO LIMITADO À, PERDA DE DADOS OU DADOS TORNADOS INCORRETOS, OU PERDAS SOFRIDAS POR VOCÊ OU POR OUTRAS PARTES, OU FALHAS DO PROGRAMA AO OPERAR COM QUALQUER OUTRO PROGRAMA), MESMO QUE TAL DETENTOR OU PARTE TENHAM SIDO AVISADOS DA POSSIBILIDADE DE TAIS DANOS.
We protect your rights with two steps:

1. Copyright the software, and
2. Offer you this license which gives you legal permission to copy, distribute and/or modify the software.
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

<note>
<title>Exception:</title>
<para>
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
</para>
</note>

You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

<orderedlist numeration="loweralpha">
  <listitem>
    Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
Les llicencies de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrariament, la Llicencia pública general de GNU est pensada per a garantir-vos la llibertat de compartir i modificar el programari lliure, per tal d'assegurar que el programari sigui lliure per a tots els seus usuaris i usuries.
Les llicències de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrariament, la Llicència pòblica general de GNU est prevedida per a garantir-vos la llibertat de compartir i modificar el programari lliure, per tal d'assegurar que el programari sigui lliure per a tots els seus usuaris i usüries. Aquesta Llicència pòblica general s'aplica a la majoria de programari de la Free Software Foundation (Fundació per al programari lliure) i a qualsevol altre programat del qual es comprometin a utilitzar-la (alguns altres programam de la Free Software Foundation, en canvi, est protegit per a la Llicència pòblica general per a biblioteques de GNU). També podeu aplicar-la als vostres programes.

Quan parlem de programari lliure ens referim a la llibertat, no al preu. Les nostres llicències pòbliques generals estan pensades per assegurar que tingueu la llibertat de distribuir còpies del programari lliure (i de cobrar per aquest servei, si voleu); que rebreu el codi font o que, si el voleu, el puguueu rebre; que puguueu modificar el programari o fer-ne servir parts en programes lliures nous; i que sapigueu que podeu fer totes aquestes coses.

Per a protegir els vostres drets, cal que apliquem restriccions que prohibeixin a tothom de negar-vos aquestes drets o demanar-vos que hi renuncieu. Aquestes restriccions suposen determinades responsabilitats per a vs si distribueu còpies del programari o si el modificueu.

Per exemple, si distribueu còpies d'un programa, tant si el distribueu de franc com si en feu pagar un preu, heu de donar als destinataris els mateixos drets que teniu vs. Us heu d'assegurar que ells tamb' en rebin o puguin aconseguir-ne el codi font, i els heu de fer saber aquests termes per tal que coneguin els seus drets.

Protegim els vostres drets amb dos passos:
us oferim aquesta llicncia que us dna perms legal per a copiar, distribuir i/o modificar el programari.

A ms a ms, per protegir-nos i protegir l'autor o autora, volem estar segurs que tothom entn que no hi ha cap garantia per a aquest programari lliure. Si alg modifica el programari i el passa, volem que els destinataris spiguen que el que tenen no s l'original, per tal que qualsevol problema que hagin pogut introduir terceres persones no repercutixi en la reputaci de l'autor o autora original.

Finalment, qualsevol programa lliure est constantment amenaat per les patents de programari. Volem evitar el perill que els redistribudors d'un programa lliure acabin obtenint llicncies de patents i que, com a consegucia d'aix, el programa esdevengui propietat exclusiva d'alg. Per evitar-ho, hem deixat clar que, de qualsevol patent, se n'han d'emetre llicncies per a tothom o no emetre'n cap.

Les condicions exactes per a la cpia, distribuci i modificaci sn les segents.
Podeu modificar la còpia o còpies del programa o qualsevol tros del programa i, així, fer una obra basada en el programa, i podeu copiar i distribuir aquestes modificacions o obres sota els termes de la Secció anterior, sempre que també compliu les condicions següents: Heu de fer que els fitxers modificats portin indicacions ben visibles que diguin que heu modificat els fitxers, i hi heu d'escriure la data de la modificació.

Heu de fer que els fitxers modificats portin indicacions ben visibles que diguin que heu modificat els fitxers, i hi heu d'escriure la data de la modificació.

Si el programa modificat normalment llegeix instruccions interactivament quan s'executa, heu de fer que quan s'arrenqui per a aquest s interactiu de la manera ms habitual, imprimeixi o mostri un missatge que inclogui una nota de copyright adient i un avís de que no hi ha garantia (o, si no, que digui que la garantia l'ofereix vs mateix) i que els usuaris poden redistribuir el programa sota aquestes condicions, i que indiqui a l'usuari o usuaress com veure una còpia d'aquesta llicencia.

Si el programa s interactiu per normalment no porta cap indicació com la que s'ha descrit, tampoc cal que les obres que feu basades en el programa en portin cap.

Aquests requeriments afecten l'obra modificada com un tot. Si hi ha parts identifiables que no estan derivades del programa, i es poden considerar raonablement com a obres independents i separades en si mateixes, aleshores aquesta llicencia i els seus termes no s'apliquen a aquelles parts quan les distribueu com a obres separades. Per quan distribueu aquestes mateixes parts integrades en un tot que sigui una obra basada en el programa, la distribució del tot s'ha de fer d'acord amb els termes d'aquesta llicencia, i els permisos atorgats a altres beneficiaris abasten el tot sencer i, per tant, totes i cadascuna de les parts, independentment de qui les hagi escrites.

Així doncs, la intenció d'aquesta secció no s'incrementar o disputar-vos cap dret a codi que hagueu escrit del tot vs mateix. La intenció és aviat exercir el dret a controlar la distribució d'obres derivades o collectives basades en el programa.

A ms a ms, la simple agregació amb el programa o amb una obra basada en el programa d'altres obres no basades en el programa en un volum d'un mitjà d'emmagatzemament o de distribució no posa aquestes altres obres sota l'umbre de la llicència.
Puede copiar y distribuir el programa (o una obra basada en el programa, según la [sección 2](#sect2)) en forma executable o de codi objecte d'acord amb els termes de les [secciones 1](#sect1) i [sección 2](#sect2) anteriors, amb la condició que també feu una de les coses següents: <orderedlist numeration="loweralpha">

- L'acompanyeu amb el codi font complet corresponent, capa de ser llegit per un ordinador, que es distribuir d'acord amb els termes de les [sección 1](#sect1) i [sección 2](#sect2) anteriors en un mitjà utilitzat habitualment per a l'intercanvi de programari; o, </para>

- L'acompanyeu amb un oferiment per escrit, amb validesa com a mínim fins al cap de tres anys, de subministrar a tota tercera part, i per un preu no superior al que us costi físicament realitzar la distribució, el codi font complet corresponent, que es distribuir d'acord amb els termes de les seccions 1 i 2 anteriors en un mitjà utilitzat habitualment per a l'intercanvi de programari; o, </para>

- L'acompanyeu amb la informació que haguéu rebut de l'oferiment de distribuir el codi font corresponent (aquesta alternativa només s'permès per a la distribució no comercial i només si heu rebut el programa en forma executable o de codi objecte amb aquest oferiment, d'acord amb la subsecció anterior).</para>

El codi font per a una obra vol dir la forma preferida de l'obra per a fer-hi modificacions. Per una obra executable, el codi font complet vol dir tot el codi font per a tots els mduls que cont, ms tots els fitxers de definició d'interfície associats si s'escau, ms els scripts que es facin servir per a controlar la compilació i la instal·lació de l'executable si s'escau. Tanmateix, com a excepció especial, el codi font que es distribueixi no cal que inclogui res del que normalment es distribueixi (sia en forma binària o de codi font) amb els components principals (compilador, nucli o similars) del sistema operatiu en què s'executa el programa, tret que el component en qüestió acompanyi l'executable.</para>

Si la distribució de l'executable consisteix a donar accés per a copiar-lo d'un lloc determinat, aleshores serveix com a distribució del codi font el fet de donar un accés equivalent per a copiar el codi font, encara que les terceres parts no estiguin obligades a copiar el codi font en copiar el codi objecte. </para>

No podeu copiar, modificar, reemetre llicències, o distribuir el programa si no s de la forma expressa que atorga aquesta Llicència. Qualsevol altre intent de copiar, modificar, reemetre llicències, o distribuir el programa s'il·licit i finalitzar automàticament els drets que haguéu obtingut d'aquesta llicència. Tanmateix, les parts que hagin rebut de vs cpies o drets d'acord amb aquesta llicència no veuran les seves llicències finalitzades mentre segueixin observant-les estrictament.</para>
No estiu obligat a acceptar aquesta llicència, ja que no l'heu signada. Tanmateix, no hi ha cap altra opció que us doni permis per modificar o distribuir el programa o les seves obres derivades. Aquestes accions queden prohibides per la llei si no accepteu aquesta llicència. Així doncs, en modificar o distribuir el programa o les seves obres derivades, indiqueu que accepteu aquesta llicència per a fer-ho, i tots els seus termes i condicions per copiar, distribuir o modificar el programa o obres que hi estiguin basades.

Cada cop que distribueu el programa (o qualsevol obra basada en el programa), el destinatari rep automàticament, de qui va emetre la llicència originàriament, una llicència per copiar, distribuir o modificar el programa sota aquests termes i condicions. No podeu imposar cap mesures restrictives a l'exercici dels drets que aqui es confereixen. No sou responsable de fer complir aquesta llicència a terceres parts.

Si, a conseqüència d'una decisió judicial, una demanda per infracció d'una patent o per qualsevol altra raó (no exclusivament relacionada amb patents), se us imposen condicions (tant si s per ordre judicial, acord, o el que sigui) que contradueixen les condicions d'aquesta llicència, no queu excusat de les condicions d'aquesta llicència. Si no us s possible distribuir de manera que satisfeu alhora les obligacions que us imposa aquesta llicència i qualsevol altra obligació pertinent, aleshores no podeu distribuir el programa en absolut. Per exemple, si una llicència de patent no permet redistributeixar gratuïtament el programa a aquells que hagin rebut còpies de vs directament o indirectament, aleshores la nica manera en qu podreu satisfacer tant aix com aquesta llicència seria abstenir-vos completament de distribuir el programa.

Si qualsevol fragment d'aquesta secció quedar invalidat o no es pogus fer complir en qualsevol circumstància particular, la intenció s que s'apliqui el balanç de la secció, i que s'apliqui la secció en la seva totalitat en altres circumstàncies.

El propòsit d'aquesta secció no s induir-vos a infringir cap patent ni cap altre requeriment del dret a la propietat, o a discutir-ne la validesa; l'ínic propòsit d'aquesta secció s protegir la integritat del sistema de distribució de programari lliure, que s'implimenta amb pràctiques de llicència pública. Molta gent ha fet generoses contribucions a l'ampli ventall de programari distribuir per aquest sistema refinant-se de l'aplicació consistent del sistema; hi pertoca a l'autor, autora o donant decidir si vol distribuir programari per algun altre sistema, i un beneficiari de la llicència no pot imposar aquesta elecció.

Aquesta secció pretén deixar del tot clar el que es considera una conseqüència de la resta de la llicència.

Si hi ha pasos que restringeixen la distribució o l'es del programari, ja sigui per patents o per interfeccions sota copyright, el possedidor del copyright original que posi el programa sota aquesta llicència pot afegir limitacions.
geogrífiques explícites que exclouguin aquests pasos, de manera que la distribució noms quedi permesa dins dels pasos no exclosos, o entre ells. En tal cas, aquesta llicència incorpora la limitació com si estiguis escrita en el text de la llicència.

<sect2>
<title>Secció 9</title>

La Free Software Foundation pot publicar versions revisades o noves de la llicència pública general de tant en tant. Aquestes versions noves seran semblants en esperit a la versió present, per poden diferir en detalls per tractar noves preocupacions o problemes.

<para>Cada versió rep un número de versió distintiu. Si el programa especifica un número de versió d'aquesta llicència que li s'aplicable i que també s'aplicable a <quote>qualsevol versió posterior</quote>, teniu l'opció de seguir els termes i condicions de la versió especificada o bé els de qualsevol versió publicada posteriorment per la Free Software Foundation. Si el programa no especifica un número de versió d'aquesta llicència, podeu triar qualsevol versió que hagi publicat la Free Software Foundation en qualsevol data.

<sect2>
<title>Secció 10</title>

Si voleu incorporar parts del programa en altres programes lliures les condicions de distribució dels quals no diferents, escriviu a l'autor per demanar-li perms. Per al programari qu't està sota copyright de la Free Software Foundation, escriviu a la Free Software Foundation; de vegades fem excepcions per a permetre-ho. Prendrem la nostra decisió guiats pels dos objectius de mantenir la condició de lliure de tots els derivats del nostre programari lliure i de promoure la compartició i la reutilització del programari en general.

<sect2>
<title>SENSE GARANTIA</title>

ATS QUE EL PROGRAMARI T'UNA LLICÈNCIA GRATUÏTA, NO SE'NS OFEREIX CAP TIPUS DE GARANTIA, EN LA MESURA PERMESA PER LES LLEIS APLICABLES. LLEVAT DELS CASOS EN QU'S'AFIRMI EL CONTRARI PER ESCRIT, EL·LES LLICENCIADORS I/O EL·LES ALTRES PARTS OFEREIXEN EL PROGRAMA <quote>TAL COM S'ESTA</quote>, SENSE CAP TIPUS DE GARANTIA, NI EXPLÍCITA NI IMPLÍCITA; AIXÍ INCLUD, SENSE LIMITAR-S'HI, LES GARANTIES IMPLÍCITES DE COMERCIALITZACIÓ I ADECUACIÓ A UN S CONCRET. TOT EL RISC PEL QUE FA A LA QUALITAT I RENDIMENT DEL PROGRAMA S'ESTA. EN CAS QUE EL PROGRAMA RESULTS DEFECTUOS, VS ASSUMIU TOT EL COST D'ASSISTENCIA, REPARACIÓ O CORRECCIÓ.

<sect2>
<title>Secció 12</title>

EL POSSEDOR DEL COPYRIGHT, O QUalsevol altra part que pugui modificar o redistribuir el programa tal i com es permet MS AMUNT NO US HAUR DE RESPONDRE EN
CAP CAS, TRET DEL QUE REQUEREIXI LA LLEI APLICABLE O ELS ACORDS PER ESCRIT, PER
PERJUDICIS, INCLOSO ES LS INCIDENTALS, DERIVATS, ESPECIALS O GENERAL S QUE ES DERIVIN
DE L’S O DE LA IMPOSSIBILITAT D’S DEL PROGRAMA (INCLOSES, ENTRE D’ALTRES, LES PRDUES
DE DADES, LES DADES QUE EL PROGRAMA HAGI MALMS, LES PRDUES QUE US HAGI PROVOCAT A
VS O A TERCERS O LA IMPOSSIBILITAT QUE EL PROGRAMA FUNCIONI AMB QUALSEVOL ALTRE
PROGRAMA), FINS I TOT SI AQUEST POSSEDOR O ALTRA PART HA ESTAT ADVERTIDA DE LA
POSSIBILITAT D’AQUESTS PERJUDICIS.</para>
</sect2>
</sect1>
</article>
</articleinfo>
<title>Splono javno dovoljenje GNU</title>
<copyright><year>2000</year> <holder>Free Software Foundation, Inc.</holder></copyright>

<author><surname>Free Software Foundation</surname></author>
<publisher role="maintainer">Projekt dokumentacije GNOME</publisher>
<revhistory>
<revision><revnumber>2</revnumber> <date>1991-06</date></revision>
</revhistory>

<legalnotice id="legalnotice">
<para>Vsakdo sme razmnoevati in razirjati dobesedne kopije tega dokumenta, ni pa ga dovoljeno
spreminjati.</para>
</legalnotice>
Dovoljenja veine programske opreme so zasnovane tako, da prepreujejo njegovo svobodno razirjanje in spreminjanje. Za razliko od teh pa Splono Javno Dovoljenje GNU (angl. GNU General Public License, GPL) jami svobodo pri razirjanju in spreminjanju proste programske opreme ter s tem zagotovilo, da ostane ta prosta za vse njene uporabnike.

Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona Javna dovoljenja GNU zagotavlja pravico razirjanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanje njenih delov v novi prosti programski opremi; in seznanjanje z vsemi temi pravicami.

Zaradi zavarovanja vaih pravic je uvedena omejitev, ki prepoveduje vsakomur, da bi vam te pravice kratil ali od vas zahteval predajo teh pravic. Te omejitve se prevedejo v vao odgovornost, e razirjate kopije programske opreme ali jo spreminjate.

Pravice uporabnika so varovane v dveh korakih: 

1. s pravno zaito programske opreme in
2. ponujenim dovoljenjem, ki vam daje pravno dovoljenje za razmnoevanje, razirjanje in/spreminjanje programske opreme.

Prav tako, za zaito vsakega avtorja in zaradi nae zaite elim omejitev, da vsakdo razume, da to prosto programsko opremo ni nobenega jamstva. e je programsko opremo spremenil nekdo drug in ga posredoval naprej, elim o, da njegovi prejemniki vedo, da to, kar imajo, ni izvirnik, zato da se problemi, ki jih povzroijo drugi, ne bodo odraali na ugledu izvornega avtorja.

Konno, vsaki prosti programski opremi nenehno grozijo programski patenti. elim o se izogniti nevarnosti,
da bi razirjevalci proste programske opreme posamino dobivali patentna dovoljenja in s tem naredili program lastniki (angl. proprietary). Za prepreitev tega jasno zahtevamo, da mora biti dovoljenje vsakega patenta tako, da ga lahko vsakdo prosto uporablja, ali pa sploh ne sme biti omejen s kakrnimkoli dovoljenjem.</para>

Sledijo natanne doloitve in pogoji za razmnoevanje, razirjanje in spreminjanje.</sect1>

Doloila in pogoji za razmnoevanje, razirjanje in spreminjanje
<title>Doloila in pogoji za razmnoevanje, razirjanje in spreminjanje</title>

Razdelek 0
<title>Razdelek 0</title>

Dovoljenje se nanaa na vsak program ali drugo delo, ki vsebuje obvestilo lastnika avtorskih pravic (angl. copyright holder) z izjavo, da se program ali drugo delo lahko razirja pod pogoji Splonega Javnega Dovoljenja GNU (angl. General Public License). *Program* se v nadaljevanju nanaa na vsak tak program ali delo, in *delo, ki temelji na tem programu* pomeni bodisi program ali pa katerokoli izvedeno delo po zakonu o avtorskih pravicah (angl. copyright law): se pravi delo, ki vsebuje program ali njegov del, bodisi dobesedno ali s spremembami in/ali prevedeno v drug jezik. (Tukaj in povsod v nadaljevanju je prevod vkljuen brez omejitev v pojem *spremembe*.) Vsak zavezanec k dovoljenju je opredeljen kot *vi*.</para>

Dovoljenje ne pokriva nobenih drugih dejavnosti razen razmnoevanja, razirjanja in sprememb; ostale so izven njenega dosega. Dejanje zagona programa ni omejeno in odvodni zapis programa je zajet le, e njegova vsebina sestavlja delo, iz katerega je izpeljan program (ne glede na to, da je bil narejen z zagnanim programom). Ali je to res ali ne, je odvisno od tega, kaj program dela.</sect2>

Razdelek 1
<title>Razdelek 1</title>

Dovoljeno je razmnoevati in razirjati dobesedne izvode izvorne kode programa v enaki obliki, kot jo dobite, preko kateregakoli nosilca, e je le na vsakem izvodu razlono in primerno objavljeno obvestilo o pravicah razirjanja in zanikanje jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsaknega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa poleg programa e izvod tega dovoljenja.</para>

Razdelek 2
<title>Razdelek 2</title>

Dovoljeno je spreminjati va izvod ali izvode programa ali katerikoli njegov del, in tako narediti delo, ki temelji na programu, ter razmnoevati in razirjati takne spremembe ali dela pod pogoji zgornjega &lt;link linkend="sect1"&gt;Razdelka 1&lt;/link&gt;, e je zadoeno tudi vsem naslednjim pogojem: &lt;orderedlist numeration="loweralpha"&gt;
&lt;listitem&gt;
Zagotoviti je treba, da spremenjene datoteke nosijo vidna obvestila o tem, da so spremenjena in datum vsake spremembe.</sect2>
Zagotoviti je treba, da je vsako delo, ki ga razirjate ali izdajate in ki v celoti ali deloma vsebuje program ali katerikoli njegov del ali pa je iz njega izpeljano, objavljeno pod pogoji tega dovoljenja kot celota brez plaila katerikoli tretji osebi. 

e spremenjeni program ob zagonu navadno bere ukaze interaktivno, je treba zagotoviti, da se ob najbolj obajem zagonu za takno interaktivno uporabo izpie ali pokae najava, ki vkljuje ustrezn sporoilo o pravicah razirjanja in sporoilo, da jamstvo ni zagotovljeno (ali pa sporoilo, da ponujate jamstvo) in da lahko uporabniki razirjajo program pod temi pogoji, in pove uporabniku, kako pogledati izvod tega dovoljenja. 

Izjema:

je sam program interaktiven, vendar navadno ne izpie takne najave, tudi za vae delo, ki temelji na programu, ni nujno, da jo.

Te zahteve se nanaajo na spremenjeno delo kot celoto. e razdelki tega dela, ki jih je lahko prepoznati, niso izpeljani iz programa in se jih lahko ima za neodvisna in loena dela sama po sebi, potem to dovoljenje in njeni pogoji zanje ne veljajo, kadar jih razirjate loeno. Vendar, kadar te iste razdelke razirjate kot del celote, ki je delo, ki temelji na programu, mora biti razirjanje celote izvedeno pod pogoji tega dovoljenja, katerega dovoljenja za druga dovoljenja se razirjajo na vso celoto in torej na vsak njen del, ne glede na to, kdo ga je napisal.

Torej, namen tega razdelka ni, da bi zanikal ali spodbijal vae pravice do dela, ki ste ga v celoti napisali sami; namesto tega je namen raziriti pravico do nadzora razirjanja na izpeljana ali zbrana dela, ki temeljijo na programu.

Poleg tega, e gre za zgolj kopienje drugega dela, ki ne temelji na programu, s programom (ali z delom, ki temelji na programu) na mediju za shranjevanje ali distribucijskem mediju, se dovoljenje na to drugo delo ne nanaa.

Program (ali delo, ki temelji na njem, pod doloil) je dovoljeno razmnoevati in razirjati v objektni kodni ali izvedljivi obliki pod pogoji zgornjih in razdelkov 1 in 2, e izpolniete tudi kaj od tega: 

opremite ga s popolno in ustrezno izvorno kodo v strojno berljivi obliki, ki mora biti razirjana pod pogoji zgornjih razdelkov 1 in 2 na nosilcu, ki se navadno uporablja za izmenjavo programske opreme; ali,

opremite ga z napisano ponudbo, veljavno vsaj tri leta, da boste katerikoli tretji osebi, za plaiilo, ki ne bo presegalo vah strokov fizinega izvajanja izvorne distribucije, dali popoln izvod ustrezn izvorne kode v strojno berljivi obliki, ki bo razirjana pod pogoji zgornjih razdelkov 1 in 2 na nosilcu, ki se obiajno uporablja za izmenjavo programske opreme; ali,
opremita ga s podatki, ki ste jih dobili vi, kot ponudbo distribucije ustrezne izvorne kode. (Ta alternativa je dovoljena le za nekomercialne distribucije in le, e ste dobili program v obliki izvorne kode ali izvedljivi obliki s takno ponudbo, glede na podrazdelek b, zgoraj.)</para>

</listitem>
</orderedlist></para>

<para>Izvorna koda pri delih pomeni obliko dela, najprimernejo za izdelavo sprememb. Pri izvedljivem delu pomeni izvorna koda vso izvorno kodo za vse module, ki jih vsebuje, poleg tega pa e morebitne datoteke z definicijami vmesnika, povezane s tem delom in skripte, uporabljane za nadzor prevajanja in namestitve izvedljive datoteke. Vendar - kot posebna izjema - ni nujno, da razirjena izvorna koda vkljuje vse, kar se navadno razirja (v izvorni ali strojni obliki) z vejimi komponentami (prevajalnik, jedro, in tako naprej) operacijskega sistema, na katerem teje izvedljiva datoteka, razen tega, da komponenta spremlja izvedljivo datoteko.</para>

se razirjanje izvedljive datoteke ali objektne kode izvede s ponujenim dostopom za prepisovanje z za to namenjenega mesta, potem ponujanje ekvivalentnega dostopa za razmnoevanje izvorne kode z istega mesta teje kot razirjanje izvorne kode, eprav tretje osebe niso prisiljene razmnoevati izvorne kode poleg objektne kode.</para>

</sect2>

<title>Razdelek 4</title>

<para>Ni dovoljeno razmnoevati, spreminjati, podrejati dovoljenja ali razirjati programa drugae, kot to izrecno dovolja prijome dovoljenje. Vsak drugi poskus razmnoevanja, spreminjanja, podrejanja dovoljenja ali razirjanja Dokumenta je nien, in samodejno prekine vae pravice, izhajajoce iz tega dovoljenja. Vendar pa se osebam, ki so svoj izvod ali pravice dobile od vas pod tem dovoljenjem, dovoljenje ne prekine, dokler se ji popolnoma podrejajo.</para>

</sect2>

<title>Razdelek 5</title>

<para>Ni vam treba sprejeti pogojev dovoljenja, saj ga niste podpisali. Vendar vam razen nje ni ne dovoljuje spreminjanja ali razirjanja programa ali iz njega izpeljanih del. e ne sprejmete tega dovoljenja, ta dejanja prepoveduje zakon. Torej, s spremembo ali razirjanjem programa (ali kateregakoli dela, ki temelji na programu), pokaete svoje strinjanje s tem dovoljenjem in z vsemi njegovimi doloili in pogoji za razmnoevanje, razirjanje ali spreminjanje programa ali del, ki temeljijo na njem.</para>

</sect2>

<title>Razdelek 6</title>

<para>Vsaki, ko razirjate program (ali katerokoli delo, ki temelji na programu), prejemnik samodejno prejme dovoljenje izvornega izdajatelja dovoljenja (angl. original licensor) za razmnoevanje, razirjanje ali spreminjanje programa glede na ta doloila in pogoje. Ni dovoljeno vsiljevati nobenih nadaljnjih omejitev izvajanja prejemnikovih pravic, podeljenih tukaj. Niste odgovorni za vsiljevanje strinjanja tretjih oseb s tem dovoljenjem.</para>

</sect2>
 Razdelek 7

e so vam, kot posledica presoje sodia ali suma kritve patenta ali zaradi kateregakoli drugega razloga (ne omejenega zgolj na patentna vpraanja), vsiljeni pogoji (bodisi z odlokom sodia, sporazumom ali drugae), ki nasprotujejo pogojem tega dovoljenja, vas ne odvezujejo pogojev tega dovoljenja. e programa ne morete razirjati tako, da hkrati zadostite svojim obvezam pod dovoljenjem in katerimkoli drugim pristojnim obvezam, potem posledino sploh ne smete razirjati programa. Na primer, e patentno dovoljenje ne dovoli razirjanja programa brez plaevanja avtorskega honorarja vseh, ki prejmejo kopije neposredno ali posredno od vas, potem je edina mona pot, da zadostite temu pogoju in temu dovoljenju ta, da se v celoti vzdrite razirjanja programa.

e se za katerikoli del tega razdelka ugotovi, da je neveljaven ali da se ga ne da izvajati pod kateremkoli doloennim pogojem, je miljeno, da velja usmeritev tega razdelka (angl. balance of the section) in razdelek kot celota velja v drugih primerih.

Namen tega razdelka ni, da bi vas napeljeval h kritvi patentov ali drugih trditev lastnitva pravic ali izpodbijal veljavnost katerihkoli taknih trditev; edini namen tega razdelka je itenje integritete sistema distribucije proste programske opreme, ki je izveden s prakso javnih dovoljenj. Mnogi ljudje so radodarno prispevali k irokemu naboru programske opreme, razirjane preko tega sistema, v upanju na njegovo dosledno izvajanje; od avtorja/dajalca je odvisno, e je pripravljen razirjati programje skozi katerikoli drug sistem, in izdajatelj dovoljenja ne more vsiljevati te izbire.

Ta razdelek namerava temeljito pojasniti, kaj so predvidene posledice nadaljevanja dovoljenja.

Razdelek 8

sta razirjanje in/ali uporaba programa omejena v doloennih dravah, bodisi zaradi patentov ali vmesnikov s posebno pravico razirjanja (angl. copyrighted interfaces), lahko izvorni lastnik ali lastnica pravic razirjanja, ki postavlja program pod to dovoljenje, doda izrecno zemljepisno omejitev razirjanja, ki izkljuuje te drave, tako da je razirjanje dovoljeno le v in med dravami, ki niso na tak nain izkljuene. V takem primeru to dovoljenje vkljuuje omejitve, kot da so napisane v telesu tega dovoljenja.

Razdelek 9

Ustanova Free Software Foundation lahko od asa do asa izdaja preurejene in/ali nove razliice Splonega Javnega dovoljenja (angl. General Public License). Nove razliice bodo pisane v duhu trenutne razliice, vendar se lahko razlikujejo v podrobnostih, ki bodo obravnavale nove teave ali poglede.

Vsaki razliici je prirejena razloevalna tevilka razliice. e program doloa tevilko razliice tega dovoljenja, ki se nanaa nanj in na katerekoli pozneje razliice, imate izbiro upotevanja pogojev in dolois bodisi te razliice ali katerekoli pozneje razliice, ki jo je izdala ustanova Free Software Foundation. e program ne doloa tevilke razliice tega dovoljenja, lahko izberete katerokoli razliico, ki jo je kdajkoli izdala ustanova Free Software Foundation.
<sect2 id="sect10" label="10">
<title>Razdelek 10</title>

<p>e elite vključi dele programa v druge proste programe, katerih pogoji razširjanja so drugani, pište avtorju in ga prosite za dovoljenje. Za programje, katerega pravice razširjanja ima Free Software Foundation, pište na Free Software Foundation; vasi naredimo izjemo pri tem. Nao odličitev bosta vodila dva cilja: ohranitev prostega statusa vseh izvedenih del iz nae proste programske opreme in spodbujanje razdeljevanja in ponovne uporabe programja na splono.</p>
</sect2>

<sect2 id="sect11" label="11">
<title>BREZ JAMSTVA</title>

<subtitle>Razdelek 11</subtitle>

<p>KER JE PROGRAM Z DOVOLJENJEM OPREDELJEN KOT BREZPLAEN, NI NOBENEGA JAMSTVA ZA PROGRAM DO MEJE, KI JO DOLOA PRISTOJNI ZAKON. RAZEN, E NI DRUGAE NAPISANO, IMETNIKI PRAVIC RAZIRJANJA IN/ALI DRUGE OSEBE PONUJAJO PROGRAM</p>

<quote>TAK, KOT JE</quote>, BREZ ZAGOTOVILA KAKRNEKOLI VRSTE, NEPOSREDNEGA ALI POSREDNEGA, KAR VKLJUUJE, A NI OMEJENO NA POSREDNA JAMSTVA CENOVNE VREDNOSTI IN PRIMERNOSTI ZA DOLOENO UPORABO. CELOTNO TVEGANJE GLEDE KAKOVOSTI IN DELOVANJA PROGRAMA PREVZAMETE SAMI. E SE PROGRAM IZKAE ZA OKVARJENEGA, SAMI NOSITE STROKE VSEH POTREBNIH STORITEV. POPRAVIL ALI POPRAVKOV.</p>
</sect2>

<sect2 id="sect12" label="12">
<title>Razdelek 12</title>

<p>V NOBENEM PRIMERU, RAZEN E TAKO PRAVI VELJAVNI ZAKON ALI JE PISNO DOGOVORJENO, NE BO LASTNIK PRAVIC RAZIRJANJA ALI KATERAKOLI DRUGA OSEBA, KI LAHKO SPREMIEN IN/ALI PONOVNO RAZIRJA PROGRAM, KOT JE DOVOLJENO ZGORAJ, PREVZEL ODGOVORNOSTI ZRADI KODE, NAJSI GRE ZA SPLONO, POSEBNO, NENAMERNO KODO ALI KODO, IZHAJAJOZ IZ UPORABE ALI NEZMONOSTI UPORABE PROGRAMA (VKLJUNO Z, A NE OMEJENO NA, IZGUBO PODATKOV ALI NENATANNO OBDELAVO PODATKOV ALI IZGUBO, POVZROENO VAM ALI TRETJIM OSEBAM ALI NEZMONOST PROGRAMA, DA BI DELOVAL S KAKIM DRUGIM PROGRAMOM), ETUDI JE BIL TAK LASTNIK ALI DRUGA OSEBA OBVEEN O MONOSTI NASTANKA TAKNE KODE.</p>
</sect2>
</sect1>
</article>
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Versión: 2, Xuo de 1991

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Fran Dieguez
frandieguez@gnome.org
<sect1 id="preamble" label="none">
<title>Prembulo</title>

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Para protecer os seus dereitos, empre introducir certas restricins que impidan que calquera outro lle poida negar estes dereitos ou pedirlle que renuncie a eles. Estas restricins implican determinadas responsabilidades para vostede, no caso de distribuir copias do software ou modificalo.

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Ademais, como medida de proteccin para todos os autores e para ns mesmos, importante deixarlles claro a todas as partes que non existe garanta para este software libre. No caso de que calquera usuario modifique o software e logo o distriba a un terceiro, os receptores deben saber que o que se lles entrega non o software orixin, de xeito que calquera problema introducido pola outra parte non afecte a reputacin dos autores orixinais.

Por ltimo, calquera programa libre est constantemente amezado polas patentes de software. A nosa intencin evitar o perigo de que os redistribuidores dun programa libre obtean licenzas de patente pola sa conta, convertendo os o seu programa en software rexistrado. Para evitar que isto suceda, deixamos ben claro que calquera patente debe de garantir a cesin da licenza a calquera usuario posible, de maneira que todo o mundo poida usar o programa libremente ou, en caso contrario, non debe de garantir licenza ninguha a ningu.</para>

A seguir detllanse os termos e condicins exactos para a copia, distribucin e modificacin.
TERMOS E CONDICIONS PARA A COPIA, DISTRIBUCIÓN E MODIFICACIÓN

Sección 0

Esta licencia es aplicable a cualquier programa o producto de este tipo que figure un aviso insertado por el titular del copyright que especifique que se puede distribuir bajo los términos de esta licencia pública general. De aquí en adelante, el término "Programa" referirá a cualquier programa o producto de este tipo, mientras que el término "producto baseado en el Programa" referirá tanto al programa como al producto derivado conforme a la ley de propiedad intelectual, es decir, al producto que contenga el programa o una parte del mismo, sea textual o con modificaciones y/o traducido a otra lengua. (De aquí en adelante, la traducción incluye sin límite ningún en el término "modificación".) Las licencias están redactadas en la forma de cortesía "usted".

Calquera actividade distinta da copia, distribución e modificación non est cuberta por esta licenza, sen que queda fra do seu mbito de aplicación. Non se restrínxe a acción de executar o Programa, e os resultados tirados do Programa s estén cubertos se o seu contido constite un producto baseado no Programa (sen importar se foi realizado mediante a execución do Programa). Que isto sexa certo ou non depender do que faga o Programa.

Sección 1

Pode modificar a sa copia ou copias do Programa, ou calquera parte del, e obter as un produto baseado no Programa, así como copiar e distribuir as devanditas modificacions ou producto de acordo cos termos do apartado 1 anterior, sempre que cumpra tamén con todas as condicions seguintes:

Pode cobrar unha taxa polo acto físico de transferir unha copia e, se vostede quixer, pode tamén ofrecer unha determinada garanta a cambio do pagamento dunha taxa.

Sección 2

Pode modificar a sa copia ou copias do Programa, ou calquera parte del, e obter as un produto baseado no Programa, así como copiar e distribuir as devanditas modificacions ou producto de acordo cos termos do apartado 1 anterior, sempre que cumpra tamén con todas as condicions seguintes:

Debe facer que calquera produto distribuido ou publicado por vostede, que en todo ou en parte contea ou derive do Programa ou de calquera parte do Programa, obtea una licenza no seu conxunto sen que isto repercuta en ningún gasto para calquera terceiría parte de acordo cos termos desta licenza.
Se o programa modificado adoita ler comandos de forma interactiva ao executalo, debe facer que, cando se execute para tal uso interactivo na forma mis habitual, mostre ou exhiba un aviso no que se inclan as oportunas informacin relativas propiedade intelectual do programa e ausencia de toda garanta (ou, se for o caso, ao feito de cunto proporciona a garantia), a indicacin de que os usuarios poden redistribuir o programa consonte estas condicins e a informacin necesaria para que o usuario saiba como acceder a unha copia desta licenza. Se o Programa en si mesmo interactivo pero non adoita mostrar avisos deste tipo, non necesario que o seu produto baseado no Programa exhiba ningn aviso.

Estes requisitos aplcanse ao produto modificado no seu conxunto. Se o producto contn seccins facilmente identificables non derivadas do Programa, que razoablemente se poidan considerar como produtos separados e independentes por si mesmos, esta licenza e mais os seus termos non sern aplicables s devanditas seccins cando se distribuan como produtos separados. Pero se esas mesmas seccins se distribuen como parte dun todo consistente nun produto baseado no Programa, a distribucin do todo deber de se acoller aos termos desta licenza, cuxas disposicins, aplicables a todos os demais titulares da licenza, abranguen o conxunto completo e, en consecuencia, todas e cada unha das partes do conxunto independientemente de quen as escribise.

As, o obxectivo deste apartado non reclamar dereitos ou rebater os seus dereitos sobre calquera produto escrito por vostede na sa totalidade; mis ben ao contrario, o seu obxectivo exercer o dereito de controlar a distribucin de produtos derivados ou colectivos baseados no Programa.

Ademais, a simple agregacin ao Programa (ou a un produto baseado no Programa) doutro producto non baseado no Programa nun volume dun medio de distribucin ou almacenamento non implica a inclusin do outro producto no mbito de aplicacin desta licenza.

Pode copiar e distribur o Programa (ou un producto baseado nel, segundo os termos do ) en cdigo obxecto ou forma executable de acordo co estipulado nos anteriores, sempre que cumpra tamn con un dos seguintes requisitos: 

Acompalando do correspondente cdigo fonte completo nun formato lexible por mquina, que se ha de distribuir de acordo co estipulado nos apartados 1 e 2 anteriores nun soporte tipicamente utilizado para o intercambio de software.

Acompalando dunha oferta por escrito, cunha validez mnima de tres anos, na que se entregue a calquera terceiro interesado, por un custo nunca superior aos gastos nos que vostede poida incorrer pola execucin fsica da distribucin do cdigo fonte, unha copia completa en formato lexible por mquina do cdigo fonte correspondente, que se ha de distribuir de acordo co estipulado nos apartados 1 e 2 anteriores nun soporte tipicamente utilizado para o intercambio de software.
Acompaalo da informacin que recibiu vostede verbo da oferta de distribuir o cdigo fonte correspondente. (Esta opcín s est permitida para a distribucin non-comercial, e unicamente no caso de que vostede recibise o programa en cdigo obxecto ou forma executable cunha oferta como a que se acaba de explicar, de acordo co subapartado b anterior.)

Entndese por cdigo fonte dun traballo o seu formato mis idneo hora de realizar modificacins nel. No caso dun traballo executable, entndese por cdigo fonte completo todo o cdigo fonte para todos os mdulos que inclue, ademais de todos os ficheiros de definicin de interfaces asociados e os scripts utilizados para controlar a compilacin e a instalacin do executable. Porn, como caso excepcional, o cdigo fonte distribuido non precisa incluir nada que se distriba normalmente (xa sexa de forma binaria ou fonte) cos compoentes principais (compilador, ncleo etc.) do sistema operativo en que se executa o executable, ags que ese propio compoente acompae o executable.

Se a distribucin do cdigo obxecto ou executable se realiza concedendo acceso de copia desde un lugar determinado, entn a concesin de acceso equivalente para copiar o cdigo fonte do mesmo lugar considrase como distribucin do cdigo fonte, anda que ningn terceiro estea obrigado a copiar o cdigo fonte xunto co obxecto.

Non lle est permitido copiar, modificar, emitir unha sublicenza nin distribuir o Programa ags nos termos especificamente estipulados nesta licenza. Calquera outro intento de copiar, modificar, emitir unha sublicenza ou distribuir o Programa ser considerado nulo, e implicar a cancelacin automatica dos dereitos que lle concede esta licenza. No entanto, as partes s que vostede concedera copias ou dereitos consonte os termos desta licenza non vern resoltas as sas respectivas licenzas, sempre que cumpran plenamente con todo o que nelas se estipula.

Cada vez que redistriba o Programa (ou calquera producto baseado no Programa), o receptor recibir automaticamente unha licenza por parte do emisor da licenza orixinal que lle permitir copiar, distribuir ou modificar o Programa consonte estes termos e condicins. Vostede non poder impor ningunha outra restricin sobre o exercicio
Se, como consecuencia dun proceso xudicial ou dunha acusación por violación de patentes, ou por calquera outra causa (sen restrinxirse aos temas de patentes), resultase a imposición de calquera condición sobre vostede (xa sexa por orde xudicial, por acordo ou por calquera outra causa) que contradiga as condiciones desta licenza, iso non o escusa do cumprimento das condiciones desta licenza. De non lle ser posible distribuír o Programa respectando as obrigas contradas bajo esta licenza e, asimismo, calquera outra obriga pertinente, entón ter que deixar de distribuílo en ningún modo. Por exemplo, no caso de existir unha licenza de patente que non permitise a redistribución do Programa exenta de dereitos de autor por parte de todos aqueles que recibisen copias de maneira directa ou indirecta de vostede, o nico xeito de cumprir cos termos da devandita licenza de patente e mais desta licenza ao mesmo tempo sera evitando por completo a distribución do Programa.</para>

No caso de que calquera sección deste apartado se considerase non vlida ou non executable baixo calquera circunstancia concreta ser de aplicación o resto do apartado e, en calquera outras circunstancias, aplicarase o apartado no seu conxunto.</para>

O obxectivo deste apartado non  inducilo a infrinxir ningunha reivindicación de patente nin de calquera outro dereito de propiedade intelectual, as como tampouco impugnar a validez deste tipo de reivindicacions. O nico que pretende este apartado  proteger a integridade do sistema de distribución do software libre, levado práctica mediante o desenvolvimento de licencias públicas. Moitas persoas contribuíron xenerosamente ao desenvolvemento do amplo abano de software distribuido a través deste sistema, coa confianza de que se aplicar consistentemente. S o autor/doador pode decidir se est disposto a distribuír o seu software mediante calquera outro sistema; o titular dunha licenza non pode impor este tipo de elección.</para>

Este apartado pretende deixar ben claro o que considera que  consecuencia do resto desta licenza.</para>

No caso de que nalgunas pases se restrinxa a distribución e/ou o uso do Programa pola execución dalgunha patente ou interface protexida por copyright, o titular orixinal do copyright que somete o Programa aos termos desta licenza poder engadir unha limitación explícita distribución xeográfica que exclúa aqueles pases, de xeito que s se permita a distribución nos ou entre os pases non suxeitos devandita exclusión. Se este for o caso, a licenza incorporara a limitación citada nos mesmos termos que se fose redactada como parte do corpo desta licenza.</para>

A Free Software Foundation poder publicar versións revisadas e/ou novas desta licenza pública xeral no momento en que o estime oportuno. As novas versións manterán o mesmo espírito ca a actual, se ben poden diferir nalgunos detalles do contido co obxectivo de facer fronte a novos problemas ou preocupacions.
Cada versión leva un número identificativo diferente. Se o Programa especifica que lle aplicable unha versión específica desta licenza e "calquera versión posterior", vostede poder escoller entre cinguirse aos termos e condicins ben da primeira versión ou ben de calquera versión posterior publicada pola Free Software Foundation. Se o Programa non especifica ningun número de versión desta licenza, vostede ter a opción de escoller calquera versión de entre todas as publicadas pola Free Software Foundation.

Se desexa incluir partes do Programa noutros programas libres cunhas condicins de distribución distintas, deber de se dirixir ao autor por escrito para lle pedir a sa autorización. No caso do software co copyright da Free Software Foundation, dirxase por escrito Free Software Foundation, que en ocasións fai excepcións nestes casos. A decisión que tomemos basearase nos nosos dous obxectivos de preservar o estatus libre de calquera produto derivado do noso software libre e de promover o compartimento e a reutilización do software en xeral.

DADO QUE SE TRATA DUN PROGRAMA ACOMPAÑADO DUNHA LICENZA GRATUITA, DENTRO DOS LÍMITES PERMITIDOS POLA LEXISLACIÓN APLICABLE CONSIDRASE UN PROGRAMA EXENTO DE TODA GARANTA. AGS QUE SE ESPECIFIQUE O CONTRARIO POR ESCRITO, OS TITULARES DO COPYRIGHT E/OU OUTRAS PARTES CEDEN O PROGRAMA "TAL CAL" SEN NINGÑ TIPO DE GARANTA, NIN EXPLÍCITA NIN IMPLÍCITA, INCLUDAS, ANDA QUE SEN EXCLUSIVIDADE, AS GARANTÍAS IMPLÍCITAS DE COMERCIABILIDADE E IDONEIDADE PARA UN DETERMINADO FIN. A TOTALIDADE DOS RISCOS ASOCIADOS CALIDADE E AO RENDIMENTO DO PROGRAMA RECAE SOBRE VOSTEDE. SE O PROGRAMA RESULTASE DEFECTUOSO, VOSTEDE TER QUE ASMIR OS CUSTOS DE CALQUERA REPARACIN, ARRANXO OU EMENDA.

EN NINGÑ CASO, AGS QUE AS O ESIXA A LEXISLACIÓN APLICABLE OU QUE EXISTA UN ACORDO POR ESCRITO ENTRE AS PARTES, SE LLE ESIXIR RESPONSABILIDADE AO TITULAR DO COPYRIGHT, OU A CALQUERA OUTRA PARTE AUTORIZADA PARA MODIFICAR E/OU REDISTRIBUIR O PROGRAMA CONSONTE OS TERMOS DESCritos ANTERIORMENTE, POLOS DANOS E PERDAS OCASIONADOS, INCLUDOS OS DANOS XERAI, ESPECIALS, INCIDENTAIAS OU DE IMPORTANCIA DE CALQUERA TIPO QUE PODAN DERIVAR DO USO OU DA INCAPACIDADE DE USO DO PROGRAMA (O QUE INCLÉ, ANDA QUE SEN RESTRICION, BEN A PERDA DE DATOS, OU BEN A INTERPRETACIN IMPRECISA DE DATOS, OU BEN AS PERDAS OCASIONADAS A VOSTEDE OU A UN TERCEIRO, OU BEN A IMPOSIBILIDADE DE EXECUTAR O PROGRAMA CON CALQUERA OUTRO PROGRAMA), MESMO SE O DEVANDITO TITULAR OU A OUTRA PARTE FOSEN ADVERTIDOS DA POSIBILIDADE DE QUE SE PRODUCISEN OS DANOS DESCritos ANTERIORMENTE.
La finalitat d'aquesta Llicncia s'creat manuals, llibres de text o altres documents escrits que no fa a la llibertat; per assegurar tothom la llibertat real de copiar-los i redistribuir-los, modificant-los o no, amb finalitats comercials o no. Addicionalment, aquesta Llicncia assegura l'autor i l'editor una manera d'obtenir crdit per la seva obra sense ser considerat responsables de les modificacions fetes pels altres.
La finalitat d'aquesta Llicncia s crear manuals, llibres de text o altres documents escrits pel que fa a la llibertat; per assegurar tothom la llibertat real de copiar-los i redistribuir-los, modificant-los o no, amb finalitats comercials o no. Addicionalment, aquesta Llicncia assegura l'autor i l'editor una manera d'obtenir crdit per la seva obra sense ser considerat responsables de les modificacions fetes pels altres.

Aquesta Llicncia s una mena de copyleft, el que significa que les obres que es derivin del document tamb han de ser lliures en el mateix sentit, i complementa la Llicncia pública general de GNU, que s una llicncia de copyleft dissenyada per al programari lliure.

Hem dissenyat aquesta Llicncia per tal d'utilitzar-la en manuals de programari lliure, perquè el programari lliure necessita documentació lliure: un programa lliure ha de venir amb manuals que tinguin les mateixes llibertats que el programari. Per aquesta Llicncia no es limita als manuals de programari; es pot utilitzar per a qualsevol obra de text, independentment del seu tema o de si s'ha publicat en forma impresa o no. Recomanem aquesta Llicncia especialment per a obres la finalitat de les quals sigui formació o consulta.
del propietari del copyright que digui que es pot distribuir sota els termes d'aquesta Llicència. Amb
<quote>Document</quote> ens referirem a aquest manual o obra. Qualsevol membre del públic s un
<quote>autoritzat</quote> i ens hi adrearem com a <quote>vs</quote>. </para>

<para id="fdl-modified">Una <quote>Versió modificada</quote> del document significa qualsevol obra que
contingui el document o una part d'ell, ja sigui copiat literalment o amb modificacions i/o traduat a un altre
idioma.</para>

<para id="fdl-secondary">Una <quote>Seció secundària</quote> s un apèndix amb ttol o una secció preliminar del
Document que a veure exclusivament amb la relació dels editors o autors del
Document amb el tema general del Document (o amb temes relacionats) i no cont res que pugui entrar directament
dins d'aquest tema general (per exemple, si el Document s en part un llibre de matemàtiques, una Seció secundària pot
no parlar gens de matemàtiques). La relació pot ser un assumpte de connexió històrica amb el tema o amb assumptes
relacionats, o de posicions legals, comercials, filosòfiques, tècniques o polítiques relatives a ells.</para>

<para id="fdl-invariant">Les <quote>Seccions invariants</quote> s determinades <link linkend="fdl-secondary">Seccions secundàries</link> els tòols de les quals indiquen que s Seccions invariants en l'avis que
indica que el <link linkend="fdl-document">Document</link> es distribueix sota aquesta Llicència.</para>

<para id="fdl-cover-texts">Els <quote>Textos de portada</quote> s determinats fragments breus de text que
consten com a Textos de portada o Textos de contraportada en l'avis que indica que el <link linkend="fdl-
document">Document</link> es distribueix sota aquesta Llicència.</para>

<para id="fdl-transparent">Una còpia <quote>Transparent</quote> del <link linkend="fdl-document">Document</link> significa una còpia que pugui ser llegida per una màquina, presentada en un format les
especificacions del qual siguin accessibles al públic en general, els continguts de la qual es poden visualitzar i editar
directament amb editors de text genèrics, o, per a imatges composades de pixels, amb programes gràfics genèrics, o, per
a dibuixos, amb editors de dibuixos fàcilment accessibles, i que es pugui introduir a formatadors de text, o a traductors
automàtics en una varietat de formats que es puguin introduir a formatadors de text. Una còpia feta en un format de
fitxer Transparent, l'etiquetatge del qual s'hagi dissenyat per obstaculitzar o dissuadir als lectors de fer-hi ulteriors
modificacions no s Transparent. Una còpia que no s <quote>Transparent</quote> s'anomena
<quote>Opaca</quote>.</para>

<para>Alguns dels formats adequats per a còpies Transparencs sn: ASCII net sense etiquetatge, format d'entrada
Texinfo, format d'entrada LaTeX, SGML o XML que utilitzin un DTD accessible per a tot, i HTML senzill que
complexi amb els estàndards que estigui dissenyat per a la modificació humana. Els formats opacs inclouen
PostScript, PDF, els formats de propietat que noms es poden llegir i editar per processadors de textos de propietat,
SGML o XML, el DTD i/o eines de processament dels quals no siguin fàcilment accessibles, i HTML generat
automàticament per alguns processadors de textos noms per a la sortida.</para>

<para id="fdl-title-page">La <quote>Pàgina de ttol</quote> significa, per a un llibre imprès, la pròpia pàgina de ttol,
ms totes aquelles pàgines que siguin necessàries per contenir, de manera llegible, el material que aquesta Llicència
requereix que aparegui a la pàgina de ttol. Per a les obres que, a causa del format de les quals, no tinguin prèviament
una pàgina de ttol, la <quote>Pàgina de ttol</quote> significa el text proper a l'aparició destacada del ttol de l'obra,
precedint el començament del cos del text.</para>
</sect1>

<sect1 id="fdl-section2" label="2">
Podeu copiar i distribuir el Document en qualsevol suport, de manera comercial o no, sempre que aquesta Llicncia, els avisos de copyright, i l'avs de llicncia que diu que aquesta Llicncia s'aplica al Document, es reproduueixin en totes les cpies, i que no hi afegiu altres condicions que les d'aquesta Llicncia. No podeu utilitzar mitjans tècnics per impedir o controlar la lectura de successives cpies de les cpies que feu o distribuïu. Podeu acceptar, per, una compensació a canvi de les cpies. Si distribuïu un nombre prou gran de cpies tamb' heu de seguir les condicions de la secció 3.

Tamb' podeu prestar-ne cpies, amb les mateixes condicions esmentades, i exhibir-ne cpies públicament.

Si publicueu ms de 100 cpies impreses, o en un suport que habitualment tingui cobertes impreses, del Document, i l'avs de llicncia del Document requereix, heu d'acompanyar les cpies de cobertes que portin, clarament ilegible, tots aquests Textos de portada: Textos de portada a la portada i Textos de contraportada a la contraportada. A totes dues cobertes s'ha d'indicar, clarament ilegible, que sou l'editor d'aquestes cpies. La portada ha d'indicar el títol complet, i totes les paraules han de destacar i veure's d'igual manera. Podeu afegir material adicional a les cobertes. Les cpies amb canvis noms a les cobertes, mentre conservin el títol del Document, es poden considerar cpies literals en altres aspectes.

Si els textos requerits per a qualsevol de les cobertes sn massa densos per encabir-los de manera que quedin ilegibles, cal que poseu els primers (tants com sigui raonablement possible) en la coberta real, i la resta en pàgines adjacents.

Si publicueu o distribuïu ms de 100 cpies Opaques del Document, heu d'incloure amb cadascuna d'elles una còpia Transparent completa del Document i sense material afegit des d'on tothom que utilitzi la xarxa pugui baixar-se, utilitzant protocols de xarxa públics. Si utilitzeu aquesta darrera opció, en començar la distribució de gran quantitat de cpies Opaques heu de prendre les mesures raonablement necessaries per tal d'assegurar que la còpia Transparent a qu' accedeix seguir disponible, en la ubicació indicada, com a mínim durant un any a comptar des del moment en que distribueu al públic (directament o a través dels vostres representants o minoristes) l'última còpia Opaques d'aquesta edició.

Es prega, per no s'exigeix, que us poseu en contacte amb els autors del Document abans de redistribuir un gran nombre de cpies; d'aquesta manera, els autors us podran facilitar una versió actualitzada del Document, si s que n'hi ha alguna.
manera la distribució i modificació de la Versió modificada a qualsevol que en posseeixi una còpia. A més, a la Versió modificada hi heu de fer el següent:

<itemizedlist mark="upper-alpha">
  <listitem>
    <para>Utilitzeu a la <link linkend="fdl-title-page">Pàgina de títol</link> (i a les cobertes, si n'hi ha) un títol diferent del <link linkend="fdl-document">Document</link> i del de les versions anteriors (que, si n'hi ha, han d'estar detallades a la secció Històric del Document). Podeu utilitzar el mateix títol d'una versió anterior si l'editor original d'aquesta versió ho autoritza.</para>
  </listitem>
  <listitem>
    <para>Relacioneu a la <link linkend="fdl-title-page">Pàgina de títol</link>, com a autors, una o més persones o entitats responsables de la realització de les modificacions de la <link linkend="fdl-modified">Versió modificada</link>, juntament amb almenys cinc dels autors principals del <link linkend="fdl-document">Document</link> (o tots els autors principals, si en menys de cinc).</para>
  </listitem>
  <listitem>
    <para>Indiqueu a la <link linkend="fdl-title-page">Pàgina de títol</link> el nom de l'editor de la <link linkend="fdl-modified">Versió modificada</link>, com a editor.</para>
  </listitem>
  <listitem>
    <para>Conserveu tots els avisos de copyright del <link linkend="fdl-document">Document</link>.</para>
  </listitem>
  <listitem>
    <para>Conserveu, immediatament després dels avisos de copyright, un avís de llicència donant autorització pública per utilitzar la <link linkend="fdl-modified">Versió modificada</link> d'acord amb els termes d'aquesta llicència, en el formulari que s'indica a l'addendum de més avall.</para>
  </listitem>
  <listitem>
    <para>Inclouu, en aquest avís de llicència, la relació completa de <link linkend="fdl-invariant">Seccions invariables</link> i <link linkend="fdl-cover-texts">Textos de coberta</link> necessaris que s'indiquen a l'avís de llicència del <link linkend="fdl-document">Document</link>.</para>
  </listitem>
  <listitem>
    <para>Inclouu una còpia no alterada d'aquesta Llicència.</para>
  </listitem>
</itemizedlist>
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</blockquote>

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
</para>

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
</para>

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
</para>
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</para>

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</sect2>

<sect2 id="sect2" label="2">
<title>Section 2</title>
<para>
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<orderedlist numeration="loweralpha">
<li>
<para>
The modified work must itself be a software library.
</para>
</li>
<li>
<para>
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
</para>
</li>
<li>
<para>
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
</para>
</li>
<li>
<para>
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
</para>
</li>
</orderedlist>
</sect2>
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

Section 6
As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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</sect2>

<sect2 id="sect10" label="10">
<title>Section 10</title>

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</sect2>

<sect2 id="sect11" label="11">
<title>Section 11</title>

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<para>
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and the section as a whole is intended to apply in other circumstances.
</para>

<para>
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</para>

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

</para>
</sect2>

<sect2 id="sect12" label="12">
<title>Section 12</title>

</sect2>

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</para>
</sect2>

<sect2 id="sect13" label="13">
<title>Section 13</title>

</sect2>

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</para>

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  46457
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SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

</para>
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<!-- The GNU Public License 2 in DocBook Markup by Eric Baudais <baudais@okstate.edu>
Maintained by the GNOME Documentation Project http://developer.gnome.org/projects/gdp
Version: 1.0.1
Last Modified: Feb. 5, 2001 -->
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Les licences de la plupart des logiciels sont conçues pour vous offrir toute liberté de les partager et de les modifier. L'opposé, les Licences Générales Publiques GNU ont pour but de vous garantir la liberté de partager et modifier un logiciel libre, pour être sûr que le logiciel est bien libre pour tous les utilisateurs.</abstract>

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<persone>
<firstname>Philippe Verdy</firstname>
</personname>
</othercredit>
Les licences de la plupart des logiciels sont conçues pour vous ter toute liberté de les partager et de les modifier. L'opposé, les Licences Générales Publiques GNU ont pour but de vous garantir votre liberté de partager et modifier un logiciel libre pour être sûr que le logiciel est bien libre pour tous les utilisateurs.

Quand nous parlons de logiciel libre, nous parlons de liberté, pas de prix. Nos Licences Générales Publiques sont conçues pour s'assurer que vous disposerez de la liberté de distribuer des copies du logiciel libre (et de facturer ce service si vous le désirez), que vous recevrez le code source ou pouvez l'obtenir chaque fois que vous le souhaitez, que vous pouvez modifier le logiciel et en utiliser tout ou partie dans de nouveaux programmes libres, et que vous êtes informés que vous pouvez faire tout ceci.

Cette licence, la Licence Générale Publique Limite (Lesser General Public License), s'applique certains paquets logiciels désignés spécifiquement typiquement des bibliothèques de la Free Software Foundation et d'autres auteurs qui décident de l'utiliser. Vous pouvez l'utiliser aussi, mais nous vous suggérons de considérer d'abord si la présente licence ou la Licence Générale Publique GNU (GNU General Public License) ordinaire est la meilleure stratégie à utiliser dans chaque cas particulier, suivant les explications données ci-dessous.

Quand nous parlons de logiciel libre, nous parlons de la liberté de l'utiliser, pas de son prix. Nos Licences Générales Publiques sont conçues pour s'assurer que vous disposerez de la liberté de distribuer des copies du logiciel libre (et de facturer ce service si vous le désirez); que vous recevrez le code source ou pouvez l'obtenir chaque fois que vous le souhaitez; que vous pouvez modifier le logiciel et en utilisez tout ou partie dans de nouveaux programmes libres; et que vous êtes informés que vous pouvez faire tout ceci.
Pour protéger vos droits, nous devons mettre des restrictions qui interdisent aux distributeurs de vous refuser ces droits ou de vous demander d'abandonner ces droits. Ces restrictions se traduisent par certaines responsabilités pour vous si vous distribuerez des copies de la bibliothèque ou si vous la modifiez.

Par exemple, si vous distribuez des copies de la bibliothèque, que ce soit titre gratuit ou contre un paiement, vous devez donner aux concessionnaires tous les droits que nous vous avons concédés. Si vous liez d'autres codes avec la bibliothèque, vous devez fournir des fichiers objets complets aux concessionnaires, de sorte qu'ils puissent les lier nouveau avec la bibliothèque après l'avoir modifiée et recompilée. Et vous devez leur montrer ces termes de sorte qu'ils puissent connaître leurs droits.

Nous protégeons vos droits par une méthode en deux tapes: (1) nous libellons la Bibliothèque avec une notice de propriété intellectuelle (copyright) et (2) nous vous offrons cette Licence, qui vous donne le droit de copier, distribuer ou modifier la bibliothèque.

Pour protéger chaque distributeur, nous voulons tablier de façon très claire qu'il n'y a aucune garantie pour la Bibliothèque libre. Aussi, si la Bibliothèque est modifiée par quelqu'un d'autre qui la redistribue ensuite, ses concessionnaires devraient savoir que ce qu'ils ont n'est pas la version originale, de sorte que la réputation de l'auteur original ne sera pas affectée cause de problèmes introduits par d'autres.

Enfin, les brevets logiciels constituent une menace constante contre l'existence même de tout logiciel libre. Nous voulons être sûr qu'une société ne peut pas effectivement restreindre les utilisateurs d'un programme libre en obtenant une licence restrictive d'un titulaire de brevet. Par conséquent, nous insistons pour que toute licence de brevet obtenue pour une version de la Bibliothèque doit être cohérente avec sa pleine liberté d'utilisation spécifiée dans la présente Licence.

La plupart des logiciels GNU, y compris certaines bibliothèques, sont couverts par la Licence Générale Publique GNU (GNU General Public License). La présente licence s'applique à certaines bibliothèques désignées et est assez différente de la Licence Générale Publique. Nous utilisons la présente licence pour certaines bibliothèques afin de permettre de lier ces bibliothèques, sous certaines conditions, des programmes non libres.

Quand un programme est lié avec une bibliothèque, que ce soit statiquement ou avec une bibliothèque partagée, la combinaison des deux constitue, en termes légaux, un travail combiné, un driv de la bibliothèque originale. Il s'ensuit que la Licence Générale Publique ordinaire ne permet une telle liaison que si l'ensemble组合remplit ses critères et conditions de liberté. La Licence Générale Publique Limite permet de desserrer les critères permettant de lier d'autres codes avec la bibliothèque.

Nous appelons cette licence la Licence Générale Publique <quote>Limite</quote> (Lesser General Public License) car elle offre en fait une protection plus limitée de la liberté de l'utilisateur que celle offerte par la <quote>Licence Générale Publique</quote> ordinaire. Elle offre aux autres développeurs de logiciels libres un avantage plus limité face aux programmes concurrents non libres. Ces désavantages sont la raison pour laquelle nous utilisons la <quote>Licence Générale Publique</quote> ordinaire pour de nombreuses bibliothèques. Cependant la licence limite offre des avantages dans certaines circonstances spéciales.

Par exemple, en de rares occasions, il peut exister le besoin particulier d'encourager l'utilisation la plus large possible d'une certaine bibliothèque, afin qu'elle devienne un standard de facto. Pour arriver à cette fin, des programmes non libres doivent pouvoir être autorisés à utiliser la bibliothèque. Un cas plus fréquent est qu'une bibliothèque libre effectue les mêmes tâches que des bibliothèques non libres largement utilisées. Dans ce cas, il n'y a pas
grand chose gagner limiter la bibliothèque libre aux seuls logiciels libres, aussi nous utilisons la Licence Générale Publique Limite.</para>

Dans d'autres cas, l'autorisation d'utiliser une bibliothèque particulière dans des programmes non libres permet un plus grand nombre de personnes d'utiliser un corpus très large de logiciels libres. Par exemple, l'autorisation d'utiliser la bibliothèque C GNU dans des programmes non libres permet plus de personnes d'utiliser le système d'exploitation GNU tout entier, de même que sa variante, le système d'exploitation GNU/Linux.</para>

Bien que la Licence Générale Publique Limite semble limiter la protection de la liberté de l'utilisateur, elle assure que l'utilisateur d'un programme lié avec la bibliothèque dispose de la liberté et du choix d'exécuter ce programme en utilisant une version modifiée de la bibliothèque.</para>

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Bien que la Licence Générale Publique Limite semble limiter la protection de la liberté de l'utilisateur, elle assure que l'utilisateur d'un programme lié avec la bibliothèque dispose de la liberté et du choix d'exécuter ce programme en utilisant une version modifiée de la bibliothèque.</para>

Les termes et conditions précis concernant la copie, la distribution et la modification suivent. Prenez une attention tout particulière aux différences entre un "travail bas sur la Bibliothèque" et un "travail utilisant la Bibliothèque". Le premier contient du code driv de la bibliothèque, tandis que le second doit être combiné avec la bibliothèque afin de pouvoir être exécuté.

TERMES ET CONDITIONS CONCERNANT LA COPIE, LA DISTRIBUTION ET LA MODIFICATION

Cet Accord de Licence s'applique toute bibliothèque logicielle ou tout programme contenant une notice place par le titulaire de la réservation de droits (copyright) ou toute autre partie autorisée indiquant que ce logiciel peut être distribué suivant les termes de cette Licence Générale Publique Limite (appelée ci-dessous "cette Licence"). Chacun des concessionnaires de cette Licence sera désigné en tant que "Vous".

Une "bibliothèque" signifie une collection de fonctions logicielles ou de données prêtes de façon à être liées facilement des programmes applicatifs (utilisant tout ou partie de ces fonctions et données) afin de former des exécutables.

La "Bibliothèque", ci-dessous, se réfère toute telle bibliothèque logicielle ou travail qui a été distribué suivant ces termes. Un "travail bas sur la Bibliothèque" signifie soit la Bibliothèque ou tout travail driv pouvant être soumis aux lois de propriété intellectuelle: c'est-à-dire un travail contenant la Bibliothèque ou une portion de celle-ci, soit en copie conforme, soit avec des modifications ou traduit directement dans une autre langue. (Dans la suite ci-dessous, les traductions sont incluses sans limitation dans le terme modification.)

Le "code source" d'un travail signifie la forme préférée du travail permettant d'y effectuer des modifications. Pour une bibliothèque, le code source complet signifie tout le code source de tous les modules qu'elle contient, plus tous les fichiers de définition d'interface associés, plus les scripts utilisés pour contrôler la compilation et l'installation de la bibliothèque.

Les activités autres que la copie, la distribution et la modification ne sont pas couvertes par cette Licence; elles sont en dehors de son tendue. L'action d'exécuter un programme utilisant la Bibliothèque n'est pas restreinte et les
résultats produits par un tel programme ne sont couverts que si leur contenu constitue un travail bas sur la Bibliothèque (indépendamment de l'utilisation de la Bibliothèque dans un outil utilis pour l'écrire). Que ce soit ou non le cas dépend de ce que réalise la Bibliothèque, et de ce que fait le programme utilisant la Bibliothèque.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>Section 1</title>
<para>Vous pouvez copier et distribuer des copies conformes du code source complet de la Bibliothèque que vous recevez, sur tout support, pourvu que vous publiez scrupuleusement et de façon appropriée sur chaque copie la notice de réservation de droit (copyright) et un dû de garantie; gardez intactes toutes les notices qui se réfèrent cette Licence et l'absence de toute garantie; et distribuez une copie de cette Licence en même temps que la Bibliothèque.</para>

<para>Vous pouvez demander un paiement pour l'action physique de transfert d'une copie et vous pouvez volont offrir une protection de garantie en change d'un paiement.</para>

</sect2>

<sect2 id="sect2" label="2">
<title>Section 2</title>
<para>Vous pouvez modifier votre ou vos copie(s) de la Bibliothèque ou toute portion de celle-ci et ainsi créer un travail bas sur la Bibliothèque et copier ou distribuer de telles modifications suivant les termes de la <link linkend="sect1">Section 1</link> ci-dessus, pourvu que vous satisfassiez également chacune de ces conditions:
<orderedlist numeration="loweralpha">
<li><para>Le travail modifié doit être lui-même une bibliothèque logicielle.</para></li>
<li><para>Vous devez assurer que les fichiers modifiés comportent des notices vides tablissant que vous avez changé les fichiers et la date de ces changements.</para></li>
<li><para>Vous devez assurer que l'ensemble du travail pourra être licencié sans frais toute tierce partie suivant les termes de cette Licence.</para></li>
<li><para>Si une facilit dans le bibliothèque modifie référence une fonction ou une table de données fournir par une application utilisant la facilit, autre qu'un argument pass quand la facilit est invoquée, alors vous devez faire un effort en toute bonne foi pour vous assurer que, dans l'eventualité où une application ne fournirait pas une telle fonction ou table, la facilit restera opérationnelle et effectuera une partie quelconque de sa finalité de façon sensé.</para></li>
<li>(Par exemple, une fonction dans une bibliothèque pour calculer des racines carrées a une finalité qui est totalement définie indépendamment de l'application. Par conséquent, la Sous-section 2d requiert que toute fonction fournie par l'application ou table utilise par cette fonction doit être optionnelle si l'application n'en fournit pas: la fonction racine carrée doit encore pouvoir calculer des racines carrées.)</li>
<li>Ces obligations s'appliquent au travail modifié dans son entier. Si des sections identifiables de ce travail ne sont pas drives dans la Bibliothèque, et peuvent être raisonnablement considérées comme des travaux indépendants et spars par eux-mêmes, alors cette Licence et ses termes, ne s'appliquent pas ces sections, dès lors que vous les
distribuez en tant que travaux spars. Mais quand vous distribuez les mêmes sections en tant que composants d'un ensemble constituant un travail bas sur la Bibliothèque, la distribution de l'ensemble doit se faire suivant les termes de cette Licence, dont les autorisations accordées d'autres obteneurs de licences s'étendent la totalité de l'ensemble et donc pour chacun des composants indépendamment de qui les a crit.</para>

<para>Aussi, ce n'est pas l'intention de cette section de clamer des droits ou de contester vos droits sur des travaux crits entièrement par vous; l'intention est plutôt d'exercer le droit de contrôler la distribution des travaux drifs ou collectifs bas sur la Bibliothèque.</para>

<para>De plus, la simple agrégation avec la Bibliothèque (ou avec un travail bas sur la Bibliothèque) d'un autre travail non bas sur la Bibliothèque sur un même volume de stockage ou un support de distribution n'amène pas cet autre travail dans le champ d'application de cette Licence.</para>

<A listitem>
</listitem>
</orderedlist></para>

</sect2>

<sect2 id="sect3" label="3">
<title>Section 3</title>

<para>Vous pouvez choisir d'appliquer les termes de la Licence Générale Publique GNU ordinaire au lieu de deux de cette Licence une copie donne de cette Bibliothèque. Pour le faire, vous devez modifier les notices qui se réfèrent cette Licence, de sorte qu'ils se réfèrent plutôt la Licence Générale Publique GNU version 2, au lieu de cette Licence. (Si une version officielle plus récente que la version 2 de la Licence Générale Publique GNU ordinaire a été publie, alors vous pouvez spécifier plutôt cette version si vous le souhaitez.) N'effectuez aucun autre changement ces notices.</para>

<para>Car que ce changement a été fait dans une copie donne, il est irreversible pour cette copie et donc la Licence Générale Publique GNU ordinaire s'appliquera toutes les copies suivantes et tous travaux drifs effectués partir de cette copie.</para>

<para>Cette option est utile quand vous souhaitez copier une partie du code de la Bibliothèque en un programme qui n'est pas une bibliothèque.</para>

</sect2>

<sect2 id="sect4" label="4">
<title>Section 4</title>

<para>Vous pouvez copier et distribuer la Bibliothèque (ou une portion ou un driv de celle-ci, suivant les termes de la <link linkend="sect2">Section 2</link>) sous forme de code objet ou exécutable suivant les termes des <link linkend="sect1">Sections 1</link> et <link linkend="sect2">2</link> ci-dessus, pourvu que vous l'accompagniez avec le code source correspondant sous forme lisible par une machine, qui doit être distribué suivant les termes des <link linkend="sect1">Sections 1</link> et <link linkend="sect2">2</link> ci-dessus sur un support utilis habituellement pour l'échange de logiciels.</para>

<para>Si la distribution du code objet se fait en offrant l'accès à la copie depuis un emplacement désigné, alors une offre d'accès équivalente pour copier le code source depuis le même emplacement satisfait l'obligation de distribuer le code source, même si des parties tierces ne sont pas obligés de copier simultanément le source en même temps que le
Un programme qui ne contient aucun driv d'une quelconque portion de la Bibliothèque, mais est conçu pour travailler avec la Bibliothèque en tant compil ou li avec cette Bibliothèque, est appel un travail **utilisant la Bibliothèque**. Un tel travail, pris isolément, n'est pas un travail driv de la Bibliothèque et tombe par conséquent hors du champ d'application de cette Licence.

Cependant, la liaison avec la Bibliothèque d'un travail **utilisant la Bibliothèque** cre un executable qui est un driv de la Bibliothèque (car il contient des portions de la Bibliothèque), plutt qu'un travail **utilisant la Bibliothèque**. L'executable est par conséquent couvert par cette Licence. La Section 6 tablit les termes de distribution de tels executables.

Quand un travail **utilisant la Bibliothèque** utilise des iments d'un fichier d'entrée faisant partie de la Bibliothèque, le code objet de ce travail peut tre un driv de la Bibliothèque mme si son code source ne l'est pas. Cette définition prendra son sens tout particulièrement si le travail peut tre li sans la Bibliothèque ou si le travail est lui-mème une bibliothèque. Les limitations de ce cas ne sont pas définies de façon précise par la loi.

Si un tel fichier objet utilise uniquement des paramètres numériques, des schmas et accesseurs de structures de données et de petites macros et petites fonctions en ligne (dix lignes de source ou moins en longueur), alors l'utilisation du fichier objet est non restreinte, indépendamment du fait que cela constitue également un travail driv. (Les rgles de la Section 6 s'appliqueront tout de mme aux executables contenant ce code objet plus des portions de la Bibliothèque.)

Autrement, si le travail est un driv de la Bibliothèque, vous pouvez distribuer le code objet pour le travail suivant les termes de la Section 6. Les rgles de la Section 6 s'appliquent alors tout executable contenant ce travail, que ce dernier soit ou ne soit pas li directement avec la Bibliothèque elle-mème.

Par exception aux Sections ci-dessus, vous pouvez aussi combiner ou lier un travail **utilisant la Bibliothèque** avec la Bibliothèque pour produire un travail contenant des portions de la Bibliothèque et distribuer ce travail suivant les termes de votre choix, pourvu que ces termes permettent la modification du travail pour les besoins propres du client et l'ingénierie inverse permettant le débogage de telles modifications.

Vous devez donner une notice explicite et vidente avec chaque copie du travail montrant que la Bibliothèque est utilisée dans celui-ci et que la Bibliothèque est couverte par cette Licence. Vous devez fournir une copie de cette Licence. Si le travail lors de son exécution affiche des notices de droits et propriétés intellectuelles, vous devez inclure la notice pour la Bibliothèque parmi celles-ci, ainsi qu'une référence adresse à l'utilisateur vers une copie de cette Licence. Vous devez aussi effectuer l'une des tâches suivantes:
Accompagner le travail avec le code source complet correspondant lisible par une machine pour la Bibliothèque incluant tout changement quelconque qui ont été effectués dans le travail (qui doit être distribué suivant les Sections ci-dessus); et, si le travail est un exécutable lié avec la Bibliothèque, fournir la totalité du travail utilisant la Bibliothèque lisible par une machine, sous forme de code objet ou source, de sorte que l'utilisateur puisse modifier la Bibliothèque et la relier pour produire un exécutable modifié contenant la Bibliothèque modifiée. (Il est admis que l'utilisateur qui change le contenu de fichiers de définition dans la Bibliothèque ne sera pas nécessairement capable de recompiler l'application pour utiliser les définitions modifiées.)</para>

Utiliser un mécanisme approprié de bibliothèque partage pour lier avec la Bibliothèque. Un mécanisme approprié est celui qui (1) utilise l'exécution une copie de la Bibliothèque déjà présente sur le système de l'utilisateur, plutôt que de copier les fonctions de bibliothèque dans l'exécutable et (2) fonctionnera correctement avec une version modifiée de la Bibliothèque, si l'utilisateur en installe une, tant que la version modifiée est compatible au niveau de l'interface avec la version avec laquelle le travail a été réalisé.</para>

Accompagner le travail avec une offre crite, valide pour au moins trois ans, de donner au même utilisateur les éléments spécifiés dans la Sous-section 6a, ci-dessus, contre un paiement n'excédant pas le coût requis pour effectuer cette distribution.</para>

Si la distribution du travail est faite en offrant l'accès une copie depuis un emplacement désigné, offrir un accès équivalent depuis le même emplacement pour copier les éléments spécifiés ci-dessus.</para>

Vérifier que l'utilisateur a déjà reçu une copie de ces éléments ou que vous en avez déjà envoyé une copie à cet utilisateur.</para>

Pour un exécutable, la forme requise du travail utilisant la Bibliothèque doit inclure toutes les données et programmes utilitaires nécessaires permettant de reproduire l'exécutable partit de ceux-ci. Cependant, par exception, les matériels distribuer n'ont pas besoin d'inclure tout ce qui est normalement distribué (sous forme source ou binaire) avec les composants majeurs (compilateur, noyau et autres composants similaires) du système d'exploitation sur lequel l'exécutable fonctionne, moins que ce composant lui-même accompagne l'exécutable.</para>

Il peut arriver que ces conditions nécessaires contredisent les restrictions de licence d'autres bibliothèques propriétaires qui n'accompagnent pas normalement le système d'exploitation. Une telle contradiction signifie que vous ne pouvez pas les utiliser en même temps que la Bibliothèque dans un exécutable que vous distribuez.</para>

Vous pouvez placer les facilités de bibliothèque qui sont un travail bas sur la Bibliothèque ctc dans une unique bibliothèque avec d'autres facilités de bibliothèque non couvertes par cette Licence et distribuer une telle
bibliothèque combine, pourvu que la distribution spare du travail bas sur la Bibliothèque et des autres facilités de bibliothèque soient autrement permises et pourvu que vous effectuiez chacune des deux tâches suivantes:

<orderedlist numeration="loweralpha">
<li>
<para>Accompagner la bibliothèque combine avec une copie du même travail bas sur la Bibliothèque, non combine avec d'autres facilités de bibliothèque. Cela doit être distribué suivant les termes des Sections ci-dessus.</para>
</li>
<li>
<para>Donner une notice vidente avec la bibliothèque combine du fait qu'une partie de celle-ci est un travail bas sur la Bibliothèque et expliquant où trouver la forme non combine accompagnante du même travail.</para>
</li>
</orderedlist>

<sect2 id="sect8" label="8">
<title>Section 8</title>

<para>Vous ne pouvez pas copier, modifier, accorder des sous-licences, lier ou distribuer la Bibliothèque autrement que d'une facon dérivée expressément par cette Licence. Autrement, toute tentative de copier, modifier, accorder des sous-licences, lier ou distribuer la Bibliothèque est invalide et mettra fin automatiquement vos droits accordés sous cette Licence. Toutefois, toute autre tierce partie qui a reçu des copies ou des droits, par vous suivant les termes de cette Licence n'aura pas sa licence termine, aussi longtemps que cette partie tierce continue de s'y conformer pleinement.</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Section 9</title>

<para>Vous n'êtes pas obligé d'accepter cette Licence, puisque vous ne l'avez pas signé. Cependant, rien d'autre ne vous accorde l'autorisation de modifier ou distribuer la Bibliothèque ou ses travaux dérivés. Ces actions sont également prohibées si vous n'acceptez pas cette Licence. Par conséquent, en modifiant ou distribuant la Bibliothèque (ou tout travail bas sur la Bibliothèque), vous indiquez votre acceptation de cette Licence pour le faire, ainsi que tous ses termes et conditions pour la copie, la distribution ou la modification de la Bibliothèque ou des travaux bas sur elle.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Section 10</title>

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<sect2 id="sect11" label="11"
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<para>Cette section a pour but d'établir de façon très claire ce que l'on croit être une conséquence nécessaire du reste de cette Licence.</para>

<sect2 id="sect12" label="12">
<title>Section 12</title>

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<sect2 id="sect13" label="13">
<title>Section 13</title>

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Software kopiatzeko, banatzeko eta aldatzeko baldintza zehatzak dituztu jarraian:</sect1>

<title>KOPIATZEO, BANATZEO ETA ALDATZEO BALDINTZAK</title>


Lizentzia honi dagozkion jarduerak bakoitza kopia, banatzea eta aldatzea dira; bestelako jarduerak lizentzia honen esparrutik kampoa daude. Programa exekutatzea edo dago mugatuta, eta Programaren emaitza estaltzen da edukia Programan oinarritutako lana bada soilik (Programa exekutatuz egina izan edo ez). Egia den edo ez, programak egiten duenaren araberakoa da.</sect2>

Kuota kobra dezakezu kopia ematearen ekintza fisikoagatik, eta zure esku dago garantzia-babesa ematea kuota baten truke.
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

- You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

- If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

  **Exception:**
  If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.

Aldatua izan den lanari bere osotasunean hartuta aplikatuko zaizkio betebehar horiek. Lan horren atal
identifikagarriak ez badira Programatik eratorritakoak, eta ondorioz lan independente eta bereizitzat har baldin badaitezke, Lizentzia hau eta baldintzak ez zaiokie atal horiei aplikatuko lan independente gisa banatzerakoan. Baina atal horiek Programan oinarritutako lan oso baten zati bezala banatzen badituzu, lan oso horren banaketa Lizentzia honen baldintzak betez egin behar da, eta lizentzia honek beste lizentziadun batzuenak dituen baimenak osorik hartzen dute, eta, beraz, zati bakoitza eta zati guztiak, nork idatziaik diren kontuan hartu gabe.</para>

<para>Honela, beraz, atal honen xedea ez da zuk osoki idatzitako lanaren eskubideak eskatu edo exijitzea, baizik eta Programan oinarritutako lan eratorrien edo talde-lanen banaketa kontrolatzeko eskubidea baliatzea.</para>

<para>Horrez gainera, Programari (edo programan oinarritutako lan bati) Programan oinarritu gabeko beste lan bat gehitzen bazaio biltegi-bolumen batean edo banaketarako euskarri batean, gehitze hutsarengatik beste lan hori ez da sartuko Lizentzia honen esparruan.</para>

<sect2 id="sect3" label="3">
<title>3. atala</title>

<para>You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

<orderedlist numeration="loweralpha">
<li>
  Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
</li>
<li>
  Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
</li>
<li>
  Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
</li>
</orderedlist>

Exekutagarri edo objektu-kodeen banaketa xede horretarako zehaztutako leku batetik kopiatzeko sarbidea eskainiz egiten bada, leku beretik iturburu-kodea kopiatzeko sarbidea baliokidea eskaintzea iturburu-kodearen banaketa gisa hartzen da, nahiz eta hirugarren alderdiak ez dauzen behartuta objektu-kodearekin batera iturburua kopiatzena.


Atal honen zatiren bat baliogabea edo bete ezina bada egoera bereziren batean, atalaren gainerrako guztia aplikatu beharko da, eta atala bere osotasunean aplikatu beharko da beste egoeretan.


Atal honek argi eta garbi utzi nahi du zer den Lizentziaren gainerrako zatiaren ondorioz jotzen dena.

PROGRAMAREN LIZENTZIA DOAN EMATEN DENEZ, PROGRAMAK EZ DU BERMERIK, LEGE APLIKAGARRIaketan ONARTZEN DUEN NEURRIAN. AURKAKORIK ADIERATZEN EZ DEN KASUETAN, JABETZA INTELEKTUALEKO ESKUBIDEA DUTENEK ETA/EDO BESTE ALDERDIA BATZUEK PROGRAMAKO <quote>DAGOEN-DAGOEN</quote> EMATEN DUEN FOKIALLA BERMERIK GABE, EZ ESPRESU Ki ADIERAZITAKORIK ETA EZ INPLIZITURIK, BARNE HARTUZ, BAINA HORRETARAKO MUGATU GABE, MERKATURATZEKO EDO XEDE JAKINEKO BATERAKO EGOKITASUNAREN BERMEA. PROGRAMAREN KALITATEARI ETA ERRENDIMENDUARI DAGOKION ZABALA, ZURE KAIN DAGO ARRISKU GUTZIA. PROGRAMAK AKATSIKO IZANGO BALU, KONPONTZEO EDU ZUZENTZEKO BEHARREZKO ZERBITZU GUZTIEN KOSTUA ZURE KAIN HARTU BEHARKO ZENUKE.

LEGE APLIKAGARRIaketan EDU IDATZIZ JASOTAKO BORONDATEZKO AKORDIO BATEK HALA ESKATZEN DUELAKO EZ BADA, EZIN IZANGO DIOZU JABETZA INTELEKTUALAREN ESKUBIDEUNARI EDO GOIAN BAIMENTZEN DEN BEZALA PROGRAMA BIRBANATU EDO ALDA DEZAKEEN BESTE ALDERDIA BATI ERANTZUKIZUNIK ESKATU EZ KALTEENGATIK, EZ PROGRAMAREN ERABILIRAREN EDU ERABILTZEKO EZGAITASUNAREN ONDORIOZ SOR DAITEZKOA KALTE OROKOR, BEREZI, GEHIGARRI EDO ONDORIOZKOENGATIK (BESTEAK BESTE, DATUAK GALITZEA EDO HONDATZEA, EDO ZUK EDO BESTE NORBAITEK JASANDAKO GALERAK, EDO BESTE PROGRAMEKA IZANDA EGITEKO PROGRAMAREN HUTS EGITEREN BAT), NAHZI ETA ESKUBIDEUNARI EDO BESTE NORBAIT HORRI KALTEAK IZAN LITEZKEELA AURRETIK ABISATU IZAN.

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Ausnahme:

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<sect2 id="sect7" label="7">
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<sect2 id="sect3" label="3">
<title>Odeljak 3</title>

<body>

<para>Ovi zahtevi se odnose na izmenjeno delo kao celinu. Ako prepoznatljivi delovi takvog dela nisu izvedeni iz Programa, i mogu biti razumno smatrani nezavisnim i odvojenim delima za sebe, onda se ova Licenca, i njene odredbe, ne odnosi na te delove kada ih raspodeljujete kao odvojena dela. Ali kada raspodeljujete iste delove kao deo celine koja je delo zasnovano na Programu, raspodela celine mora biti pod odredbama ove Licence, ija se ovlaenja za druge licence proiruju na itavu celinu, a time i na svaki i na bilo koji deo bez obzira ko ga je napisao.</para>

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<sect2 id="sect3" label="3">
<title>Odeljak 3</title>

<body>

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<orderedlist numeration="loweralpha">
<li><para>Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of <link linkend="sect1">Sections 1</link> and <link linkend="sect2">2</link> above on a medium</para>
</li>
</orderedlist>
</sect2>
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distribution, a complete machine-readable copy of the corresponding source code,
to be distributed under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,
</para>
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Accompany it with the information you received as to the offer to distribute
corresponding source code. (This alternative is allowed only for noncommercial
distribution and only if you received the program in object code or executable form
with such an offer, in accord with Subsection b above.)
</para>
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od tree strane ne zahteva da umnoava izvorni kd zajedno sa objektim kdom.</para>
</sect2>

Odeljak 4
<title>Odeljak 4</title>

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Odeljak 5
<title>Odeljak 5</title>

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

GNU (Free Software Foundation), (Free Software Foundation) GNU.

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Você deve fazer com que os arquivos modificados carreguem informações proeminentes de que você modificou os arquivos e a data de qualquer mudança.

Você deve fazer com que todo o trabalho seja licenciado sob nenhuma taxa a todas as terceiras partes sob os termos desta Licença.

Se uma instalação numa Biblioteca modificada refere a uma função ou uma tabela de dados a ser fornecida por um programa aplicativo que use a instalação, outro que como um argumento passado quando a instalação é invocada, então você deve fazer um esforço de boa fé para garantir que, no evento de uma aplicação no fornecer tal função ou tabela, a instalação ainda opere, e execute qualquer parte desta proposta continuando significativa.

(Exemplo, a função na biblioteca para calcular raízes quadradas tem um propósito que totalmente bem definido independente da aplicação. Dessa forma, a 2 Subseo requisita que qualquer função suprida pela aplicação ou tabela usada por essa função deve ser opcional: se a aplicação não suprir isto, a função da raiz quadrada ainda deve calcular raízes quadradas.)

Estes requisitos se aplicam ao trabalho modificado como um todo. Se seizes identificáveis do trabalho no so derivadas da Biblioteca, e podem ser razoavelmente considerados trabalhos independentes e separados em si, então esta Licença e seus termos, no se aplicam aquelas seizes quando você as distribuí como trabalhos separados. Mas quando você distribuir as mesmas seizes como parte de um todo que um trabalho baseado na Biblioteca, a distribuição do todo deve ser nos termos dessa Licença, da qual as permissões para outros licenciados se aplicam para todo o inteiro, e assim para toda e cada parte, independente de quem a escreveu.

Assim, no intenção desta seio reivindicar direitos ou contestar os seus direitos de trabalho escrito...
completamente por voc; preferencialmente, a inteno exercitar o direito de controlar a distribuio de trabalhos coletivos e derivados baseados na Biblioteca.</para>

<para>Em adio, a mera agregao de qualquer trabalho no baseado na Biblioteca com a Biblioteca (ou com um trabalho baseado na Biblioteca) num volume de armazenamento ou meio de distribuio no traz a outro trabalho sob o alcance desta Licena.</para>

</sect2>

<sect2 id="sect3" label="3">
<title>Seo 3</title>

<para>Voc pode optar por aplicar os termos de licena da Licena Pblica Geral GNU normal(GNU General Public License) ao invs desta Licena para dada cpia da Biblioteca. Para fazer isto, voc deve alterar todas as notificaes que se referem a esta Licena, para que elas refiram-se a Licena Pblica Geral GNU normal(GNU General Public License), verso 2, invs desta Licena.(Se uma verso mais nova que a verso 2 da Licena Pblica Geral GNU(GNU General Public License) tiver aparecido ento voc pode especificar esta verso se desejar.) No faa nenhuma outra mudana nestas modificaes.</para>

<para>Uma vez feita a mudana em determinada cpia, isto irreversvel para esta cpia, ento a Licena Pblica Geral GNU normal se aplica a todas as cpias subsequentes e trabalhos derivados feitos desta cpia.</para>

<para>Esta opo  til quando voc deseja copiar parte do cdigo da Biblioteca para um programa que no  uma biblioteca.</para>

</sect2>

<sect2 id="sect4" label="4">
<title>Seo 4</title>

<para>Voc pode copiar e distribuir a Biblioteca (ou uma poro ou derivada dela, sob <link linkend="sect2">Seo 2</link>) em cdigo objetivo ou de forma executvel sob os termos das Sees <link linkend="sect1">1</link> e <link linkend="sect2">2</link> acima fornecido que voc acompanh-e-a com o cdigo-fonte correspondente em formato lido por mquina, que deve ser distribuido sob os termos das Sees <link linkend="sect1">1</link> e <link linkend="sect2">2</link> acima num meio costumeiramente usado para transao de software.</para>

<para>Se a distribuio do cdigo feita oferecendo acesso a cpia de um local especifico, ento oferecer acesso equivalente cpia do cdigo-fonte do mesmo local satisfaz a requerimento de distribuir o cdigo fonte, mesmo se terceiros no tiverem interesse de copiar a fonte junto ao cdigo em questo.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Seo 5</title>

<para>Um programa que contm nenhum derivado de qualquer poro da Biblioteca, mas desenvolvido para trabalhar com a Biblioteca por ser compilado com ela ou ser relacionado a ela, chamado <quote>trabalho que usa a
Biblioteca</quote>. Tal trabalho, em isolamento, no um trabalho derivado da Biblioteca, e desta forma, fica fora da competência desta Licença.</para>

<i>&lt;para&gt;No entanto, relacionar um &lt;quote&gt;trabalho que usa a Biblioteca&lt;/quote&gt; com a Biblioteca cria um executável que derivado da Biblioteca (porque ela contem pores da Biblioteca), mais do que um &lt;quote&gt;um trabalho que usa a biblioteca&lt;/quote&gt;. O executável desta forma coberto por esta Licença. &lt;link linkend="sect6">Seo 6</link&gt; diz os termos para a distribuição de tais executáveis.&lt;/para&gt;</i>

<i>&lt;para&gt;Quando um &lt;quote&gt;trabalho que usa a Biblioteca&lt;/quote&gt; usa material de um arquivo pai que parte da Biblioteca, o código em questão para o trabalho pode ser um trabalho derivado da Biblioteca mesmo que o código fonte no seja. Se isso verdade especialmente significante se o trabalho pode ser relacionado sem a Biblioteca, ou se o trabalho por si s uma biblioteca. O princípio para isso ser verdade no precisamente definido por lei.&lt;/para&gt;</i>

<i>&lt;para&gt;Se tal arquivo objeto usa somente parâmetros numéricos, o layout da estrutura de dados e acessórios, e pequenas macros e pequenas funções internas (dez linhas ou menos de tamanho), então o uso do objeto irrestrito, independente de ser um trabalho derivado legalmente. (Executáveis contendo este código objeto e pores da Biblioteca ainda ficam sob a &lt;link linkend="sect6">Seo 6</link&gt;.)&lt;/para&gt;</i>

<i>&lt;para&gt;Se o trabalho for derivado da Biblioteca, voc pode distribuir o código objeto para o trabalho sob os termos da &lt;link linkend="sect6">Seo 6</link&gt; Quaisquer executáveis contendo este trabalho também ficam sob a &lt;link linkend="sect6">Seo 6</link&gt; estando, ou no, relacionados diretamente a Biblioteca.&lt;/para&gt;</i>

<i>&lt;/sect2&gt;
&lt;sect2 id="sect6" label="6">&lt;/sect2&gt;</i>

<i>&lt;para&gt;Como uma exceção as Sees acima, voc pode também combinar ou relacionar um &lt;quote&gt;trabalho que usa a Biblioteca&lt;/quote&gt; com a Biblioteca para produzir um trabalho contendo pores da Biblioteca, e distribuir este trabalho sob os termos de sua escolha, dado que os termos permitam modificação do trabalho para o uso do proprio cliente e engenharia reversa para depuração destas modificações.&lt;/para&gt;</i>

<i>&lt;para&gt;Voc deve dar aviso proeminente com cada cópia do trabalho que esta Biblioteca usada nela e que a Biblioteca e seu uso so cobertos por esta Licença. Voc deve fornecer uma cópia desta Licença. Se o trabalho, durante esta execução exibe avisos de direitos autorais, voc deve incluir o aviso de direito autor para a Biblioteca entre eles, assim como uma referência direcionando o usuário a cópia desta Licença. Também, voc deve fazer umas dessas coisas: &lt;orderedlist numeration="loweralpha">&lt;/listitem&gt;</i>

<i>&lt;para id="sect6a">Acompanhe o trabalho com o correspondente código-fonte em formato lido por máquina para a Biblioteca, incluindo quaisquer mudanças que foram usadas no trabalho(qual deve ser distribuido sob as Sees &lt;link linkend="sect1">1</link&gt; e &lt;link linkend="sect2">2</link&gt; acima); e, se o trabalho um executável relacionado com a Biblioteca, com o &lt;quote&gt;trabalho que usa a Biblioteca&lt;/quote&gt; completo em formato lido por máquina, como código objeto e/ou código-fonte, para que o usuário possa modificar a Biblioteca e ento relacionar novamente para produzir um executável modificado contendo a Biblioteca modificada.( entendi que o usuário que modifica os conteúdos de arquivos de definir na Biblioteca no serem necessariamente hbeis a recompilar a aplicação para usar as definições modificadas.)&lt;/para&gt;</i>

<i>&lt;/listitem&gt;</i>

<i>&lt;/listitem&gt;</i>

<i>&lt;para&gt;Use um mecanismo de biblioteca compartilhada comprovável para relacionamento com a Biblioteca. Um</i>
mechanismo compatível um que (1) usa no tempo de execução uma cópia da biblioteca já presente no sistema do computador do usuário, ao invés de copiar funções da biblioteca no executável, e (2) v operar apropriadamente com uma versão modificada, se o usuário instalar uma, contanto que a versão modificada seja compatível com a interface da versão na qual o trabalho foi desenvolvido.</para>

</listitem>

</para>Acompanhe o trabalho com uma oferta escrita, válida por pelo menos três anos, de dar ao mesmo usuário os materiais especificados na <link linkend="sect6a" >Subseção 6a</link> , acima, por um valor no maior que o custo de efetuar esta distribuição.</para>

</listitem>

</para>Se a distribuição do trabalho feita oferecendo acesso a cópia de um local específico, ofereça acesso equivalente cópia dos materiais acima especificados, do mesmo local.</para>

</listitem>

</para>Para um executável, a forma requisitada de "trabalho que usa a Biblioteca" deve incluir qualquer dado ou programas de utilitários necessários para reproduzir o executável nele. No entanto, como uma exceção especial, os materiais a serem distribuídos no precisam incluir nada que normalmente distribuido (seja na forma de fonte ou binário) com os componentes principais (compilador, kernel, e assim por diante) do sistema operacional no qual o executável funciona, ao menos que o componente em si acompanhe o executável.</para>

</sect2>

<sect2 id="sect7" label="7">
<title>Seção 7</title>

Voc pode posicionar as instalações da biblioteca que so um trabalho baseado na biblioteca lado-a-lado numa única biblioteca juntas a outras instalações da biblioteca no cobertas por esta Licença, e distribuir tal biblioteca combinada, dado que a distribuição separada do trabalho baseado na Biblioteca e das outras instalações da biblioteca seja permitida, e dado que você faça estas duas coisas:</para>

<orderedlist numeration="loweralpha">
<li>
<para>Acompanhar a biblioteca combinada com uma cópia do mesmo trabalho baseado numa Biblioteca, no combinada com quaisquer outras instalações de biblioteca. Isto deve ser distribuído sob os termos de licença das Sees acima.</para>
</li>
<li>
<para>De informar proeminente com a biblioteca combinada do fato que parte dele um trabalho baseado na...
Biblioteca, e explicando onde achar o formato no combinado do mesmo trabalho, que acompanha.</para>

</listitem>
</orderedlist>
</sect2>

<sect2 id="sect8" label="8">
<title>Seo 8</title>

<para>Você não pode copiar, modificar, sublicenciar, relacionar com, ou distribuir a Biblioteca, exceto como expressamente determinado sob esta Licença. Qualquer tentativa de contrario de copiar, modificar, sublicenciar, relacionar com, ou distribuir a Biblioteca nula, e automaticamente terminarão com seus direitos sob esta Licença. No entanto, as partes que receberem cópias, ou direitos, sob esta Licença no terão suas licenças terminadas ao longo que tais partes se mantenham em total plena cumprimento.</para>

</sect2>

<sect2 id="sect9" label="9">
<title>Seo 9</title>

<para>Você não requisitado a aceitar esta Licença, já que você não a assinou. No entanto, nada mais te d permissão de modificar ou distribuir a Biblioteca trabalhos derivados dela. Estas ações são proibidas por lei se você não aceita esta Licença. Desta forma, por modificar ou distribuir a Biblioteca (ou qualquer trabalho baseado na Biblioteca), você indica sua aceitação desta Licença para o fazer, e todos os seus termos e condições para cópia, distribuição ou modificação da Biblioteca ou trabalhos baseados nela.</para>

</sect2>

<sect2 id="sect10" label="10">
<title>Seo 10</title>

<para>Toda vez que você redistribui a Biblioteca (ou qualquer trabalho baseado na Biblioteca), o recipiente automaticamente recebe uma licença do licenciador original para copiar, distribuir, relacionar ou modificar o assunto da Biblioteca a estes termos e condições. Você não pode impor maiores restrições ao exercício dos direitos dados ao recipiente, por meio desta. Você não responsável por forçar o cumprimento dos termos desta Licença por terceiros.</para>

</sect2>

<sect2 id="sect11" label="11">
<title>Seo 11</title>

<para>Se, como uma consequência de julgamento em tribunal ou alegação infração de patente ou por qualquer outra razão (no limitado a casos de patente), as condições so impostas a você (seja por ordem da corte, acordo ou de qualquer outra natureza) que contradiga as condições desta Licença, elas no excluem você das condições desta Licença. Se você não pode distribuir de forma a satisfazer simultaneamente suas obrigações sob esta Licença e quaisquer outras obrigações pertinentes, ento como consequência você não pode distribuir a Biblioteca de forma alguma. Por exemplo, se uma licença de patente não permitir redistribuição da Biblioteca livre de royalty por todos aqueles que recebem cópias direta ou indiretamente por você, ento a nica maneira de você satisfazer tanto ela quanto esta Licença seria prevenir completamente a distribuição da Biblioteca.</para>

<para>Se qualquer poro desta seo for considerada inválida ou sem força sob qualquer circunstância particular, o
equilíbrio da seo intencionada a ser aplicada, e a seo como um todo intencionada a ser aplicada sob quaisquer outras circunstâncias.</para>

<para>No intuito desta seo te induzir a infringir quaisquer patentes ou proclamaes de propriedade por direito ou contestar a validade de tais proclamaes; esta seo tem a proposta nica de proteger a integridade do sistema de distribuição do software livre que implementado pelas práticas de licença pública. Muitas pessoas fizeram generosas contribuições para o vasto alcance do software distribuído por este sistema confiando na consistente aplicação deste sistema; cabe ao autor/doador decidir se ele ou ela tem interesse de distribuir software por qualquer outro sistema e um licenciado no pode impor esta escolha.</para>

<para>A intenção desta seo fazer exatamente claro o que acredita-se ser uma consequência do resto desta Licença.</para>

<sect2 id="sect12" label="12">
<title>Seo 12</title>

<para>Se a distribuição e/ou uso da Biblioteca restrito em certos países seja por patentes ou por interfaces registradas, o detentor do direito autoral original que coloca a Biblioteca sob esta Licença deve adicionar uma limitação de distribuição geográfica explícita excluindo estes países, para que a distribuição seja permitida somente em e entre países no excluídos. Neste caso, esta Licença incorpora a limitação como se escrita no corpo desta Licença.</para>

</sect2>

<sect2 id="sect13" label="13">
<title>Seo 13</title>

<para>A Free Software Foundation pode publicar versões novas e/ou revisadas do Lesser General Public License de hora em hora. Tais novas versões serão similares em espírito a versão atual, mas pode divergir em detalhes para abordar novos problemas ou preocupações.</para>

<para>Cada versão será numerada de forma distinta. Se a Biblioteca especifica um número de versão desta Licença que se aplica a ela e "qualquer versão mais antiga", você tem a opção de seguir os termos e condições tanto desta versão quanto versão mais antiga publicada pela Free Software Foundation. Se a Biblioteca não especifica um número de versão de licença, você pode escolher qualquer versão j publicada pela Free Software Foundation.</para>

</sect2>

<sect2 id="sect14" label="14">
<title>Seo 14</title>

<para>Se você desejar incorporar partes da Biblioteca em outros programas livres as quais tem condições de distribuição incompatíveis com aquelas, escreva ao autor para pedir permissão. Para software que registrado pela Free Software Foundation, escreva a Free Software Foundation; ns, algumas vezes fazemos exceções para isto. Nossa decisão será guiada pelas duas metas de preservar o status livre de todos os derivados de nosso softwares livre e de promover o compartilhamento e reuso de software em geral.</para>

</sect2>

<sect2 id="sect15" label="15">
<title>SEM GARANTIA</title>

</sect2>
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Mi ngi u uc quyển sao chép và phần phi nguyễn với tự liều giày php ny, nghĩa không c php thay i n.

Mạng u uc quyển sao chép và phần phi nguyễn với tự liều giày php ny, nghĩa không c php thay i n.

Giy php s đang ca huỳnh cc phần mm c thit k phân khống c t do chia s và thay i phần mm. Triệu liều, giày php Cng cng GNU d nhanh m bô cho bn c t do chia s và thay i phần mm mt cch t do, v m bô phần mm t do cho mi ngi s đang. Giày php Cng cng GNU ny p đang cho huỳnh nhũng phần mm ca T thưc Phn mm T do, v cho bt k chng trình mi thay no khác mm t gi cả mm cam km t s đang n. (Mt s phần mm khác ca T thưc Phn mm T do đang giày php Th vui Cng cng GNU thay th.) Bn cng c th p đang giày php ny cho cc chng trình do bn lớn ra.

Khi chng ti ni v phần mm t do, chng ti c pn s t do s đang, ch khng phi l gi c. Giày php Cng cng GNU ca chng ti c thit k m bô bn c quyển t do ph                                         l nh`; bn sao ca phần mm t do (v thu tin dch v ny nu mun), nhn m ngun hoc c kh ng                  ly n nn bnmun, bn c th thay i phần mm hay s đang bt k on no ca n trong chng trnh t do mi; v gip bn bit r l bn c th lm nhng iu ny.

Bo v quyển li ca bn, chng ti ca ra nhng hủ ch cm bt c ai ph nhn bn c nhng quyển ny hay i hi bh b n. Nhng s hủ nh ny c hiu l mt s trách nhí nh thit ca bn nu bn phitung nh` bn sau ca phần mm hoc sa i n.

Chng ln, nh bh phitung nh`; bn sao ca chng trinh nh vy, d l cho khng hay thu tin, nh phi trao cho ngi nhn tt c nhng quyển bn c. Nh phi chc chn l h cng nnn c hay c th lý m ngun. V bh cng phi cho h bit nhng iu kin ny, h bit nhng quyển ca h.

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  <listitem>
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  </listitem>
  <listitem>
    <para>
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  </listitem>
  <listitem>
    <para>
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    </para>
    <note>
      <title>Exception:</title>
      <para>
        If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
      </para>
    </note>
  </listitem>
</orderedlist>

<para>Nhng iu kin ny p dng cho ton b sn phm b sa i. Nu c th nhn ra phn ring ca sn phm khng bt ngun t Chng trnh, v cc phn ny c th c xem mt cch hp l l sn phm ring v khng ph thuc, th Giy php ny, v cc iu kin ca n, khng p dng cho nhng phn ring khi bn pht hnh chng l sn phm ring. Tuy nhin, khi bn pht hnh nhng phn cng vi ton b sn phm da vo Chng trnh, s pht hnh ton b ny phi tun theo iu kin ca Giy php ny, cung cp cho mi ngi c quyn bao trm ton b sn phm, bao qut tt c mi phn ca n, bt k ai to n.</para>
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trnh bin dch v ci t tp tin chy c. Tuy nhin, ngoi l c bit l m ngun c pht hnh khng cn phi bao gm nhng g c pht hnh hnh thng (trong dng the hoc ngun hoc nh phn) vi cc thnh phn chnh (b bin dch, ht nhn v.v.) ca h iu hnh ni tp tin chy c hot ng, tr khi thnh phn km theo cn thit chy tp tin. &para;

<para>Nu vic pht hnh m chy c hay m i ng c lm bng c ch c trao truy cp sao chp t mt ni xc nh, th vic trao cc truy cp sao chp tng ng n m ngun t cong ni c thnh l s pht hnh m ngun, mc d ngi khc khng bt buc phi sao chp m ngun cng vi m i tng. &para;

</sect2>

<sect2 id="sect4" label="4">
<title>Phn 4</title>

<para>Khung cho phpbn sao chp, sa i, cp giy phpbh phay phpt hnh Chng trnh, tr vi iu kin c din t dt khot trong Giy phpbn. Bt ks c gng no trong vic sao chp, sa i, cp giy phpbhay phpt hnh Chng trnh bng cch khe b bi b, vs kt the cc quyn ca bn di Giy phpbn. Tuy nhin, ngi khc nhn bn sao hay quy n tbn di Giy phpbn s khng b nh hng, min l h tip tc tun theo hon ton. &para;

</sect2>

<sect2 id="sect5" label="5">
<title>Phn 5</title>

<para>Bn khng bt buc phi chp nhn Giy phpbn, v bn cha k tnv o n. Tuy nhin, khng c g khc cho phpbnsa i hay phpt hnh Chng trnh hay sn phmbt ngun t n. Cc hnh ng nb phpbuth cm nu bn khng chp nhn Giy phpbn. V vy, bng cch sa i hay phpt hnh Chng trnh (hay sn phmb vn o n), bn ng s chp nhn Giy phpbn 1n nh th, gm mi iu kin sao chp, phthnh hay sa i Chng trnhtay sn phmb vn o n. &para;

</sect2>

<sect2 id="sect6" label="6">
<title>Phn 6</title>

<para>Mi ln bnhpt hnh l i Chng trnh (hay sn phmb vn o n), ngi nhn c th nhn t ng mt giy phpb t nghi cp gc, sao chp, phthnh hay sa i Chng trnh vi iu kin ny. Khng cho phpbnh chthmcch ngi dng s dng cc quy n c cp trong Giy phpbn. Bncng khng phi chu trc nhim v vic pbngi khc tun theo iu kin ca Giy phpbn. &para;

</sect2>

<sect2 id="sect7" label="7">
<title>Phn 7</title>

<para>Nu, do kt qu ca quy nh ca to n hay cc co buc vi phm bng sng ch hay v bt c l do no (khng b gii hnv trong vn bng sng ch), bnbpbuc chphnn iu kin (hoc v quy nh ca to n, s tho thun hoc cch khe no) m mu thun iu kin ca Giy phpbn, trng hpn khng minh o bnhng phi tha mn iu kin ca Giy phpbn. Nu bn khng thhpt hnh bng cch tham ngi cc giaoc ca bndi Giy phpbn vbt k giaoc chth hp khe, th kt qu l khng cho phpbnh pt hnh Chng trnh bng cch no c. Ly th d, nu mt bng sng ch nh o khng cho phpbpt hnh l i Chng trnh m cch min tin bn quy ntht phn mnh o ci mg i ngi nhnnh bsao tbn mtcch trctiphay gin tip, th cch duy nhthbn c chth ca bng v Giy phpbn l hon ton khng phthnh Chng trnh. &para;

</sect2>

<para>Nu on o trong phnbvn c quy nh l khng hplhay khng th c pbtc trong bt k trng hpn ring no, on cnlidnhpbngc,vtonbphndnhpbngen trng cctrnghp khe. &para;
<para>Không phải làm việc với phần mềm ngụy tạo biên soạn và không hợp lệ, hoặc không thể hiện số lý do dựa trên các nguyên tắc của quyền lợi và nghĩa vụ; phần mềm được sử dụng như một phần mềm phân tích hướng pwm, nhúng, hệ thống loại bỏ replicate trong thông qua việc, véc ni cp Gía lý phân tích không thể được trong thông qua cấp P.inf pny.</para>

<para>Phần mềm là một phần mềm phân tích các hoạt động, nhưng cho phép phân tích các hoạt động qua nhiều kênh khác nhau. Tiếp tục, Già lý phân tích không thể được trong thông qua cấp P.inf pny.</para>

<sect2 id="sect8" label="8">
<title>Phần 8</title>

<para>Mặt phím hệ thống chọn được phân tích các hoạt động, nhưng cho phép phân tích các hoạt động qua nhiều kênh khác nhau. Tiếp tục, Già lý phân tích không thể được trong thông qua cấp P.inf pny.</para>

<sect2 id="sect9" label="9">
<title>Phần 9</title>

<para>Tốc độ phần mềm chọn được phân tích các hoạt động, nhưng cho phép phân tích các hoạt động qua nhiều kênh khác nhau. Tiếp tục, Già lý phân tích không thể được trong thông qua cấp P.inf pny.</para>

<sect2 id="sect10" label="10">
<title>Phần 10</title>

<para>Nếu bạn muốn tốc độ phần mềm chọn được phân tích các hoạt động, nhưng cho phép phân tích các hoạt động qua nhiều kênh khác nhau. Tiếp tục, Già lý phân tích không thể được trong thông qua cấp P.inf pny.</para>

<sect2 id="sect11" label="11">
<title>KHÔNG BO HÚT</title>

<subtitle>Phần 11</subtitle>

<para>V CHÍNH TRÁNH C CP PHP MIN PH, KHONG C BO HNH I VI CHI NG TRÁNH NY, VI IU KIN C PHP LUT CHO PHP. TR KHI XC NH HHC BNG TI LIU GIY T, CC NGI GI BN QUYN TC GI V/HAY NGI KHC CUNG CP CHÍNH TRÁNH NY NH TH, KHONG C BO HNH G C, KHONG PHT BIU N, CNG KHONG NG N, GM, NHONG KHONG B HN CH BI, S BO M NG TNH TRÁNH C TH BN C V S THCH HP VI MT MC CH DT KHOT.</para>
KHNG C TRNG HP NO (TR KHI PHP LUT YU CU HAY KHI C THA THUN BNG TI LIU GIY T) M BT K NGI GI BN QUYN TC GI NO, HAY BT K NGI KHC NO C TH SA I V/HAY PHT HNH LI CHNG TRNH NH C PHP BN TRN, S C TRCH NHIM V PHP L BI THNG, GM BT K BI THNG KIU TNG QUT, C BIT, NGU NHIN HAY DO HU QU DO S DNG HAY S KHNG C KH NNG S DNG CHNG TRNH NY (GM NHNG KHNG PHI B HN TH BI S MT D LIU HAY D LIU B LM CHO KHNG CHNH XC HAY CC MT MT CA BN HAY NGI KHC HAY S KHNG HOT NG C CHNG TRNH NY VI CHNG TRNH KHC), THM CH NU BN HAY NGI KHC C BO BIT C KH NNG THIT HI NH VY.
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  <para>You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.</para>
</listitem>

<listitem>
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</listitem>

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</para>
</listitem>
</orderedlist>
</sect2>

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<title> 3</title>

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</sect2>

<sect2 id="sect4" label="4">
<title> 4</title>

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</para>

</sect2>
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</para>

</sect2>

<sect2 id="sect7" label="7">
<title>7</title>

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<orderedlist numeration="loweralpha">
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<title>8</title>

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<title>9</title>

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<title>10</title>

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<sect2 id="sect13" label="13">
<title> 13</title>

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

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<para>
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</para>

</sect2>

<sect2 id="sect3" label="3">
<title>3</title>

<para>     LGPL  GPL    .    LGPL     GPL 2  . (GPL 2         .)       .
</para>

<para>       GPL       ,          GPL  .
</para>

</sect2>
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  <li>Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections <a name="sect1"/>1 and <a name="sect2"/>2 above); and, if the work is an executable linked with the Library, with the complete machine-readable
work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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<year>2000</year>

<Title>Yleens tietokoneohjelmien lisenssisopimukset on suunniteltu siten, että ne estvt ohjelmien vapaan jakamisen ja muuttamisen. Sen sijaan GPL-lisenssit on suunniteltu takaamaan kyytn vapaus jakaa ja muuttaa ohjelmaa lisenssi varmistaa, että ohjelma on vapa kaikille kyyjille.</Title>

<Kun tss Lisenssiss puhutaan vapaasta ohjelmasta, silloin ei tarkoiteta hintaa. GPL-lisenssi on nimitin suunniteltu siten, että kyyjille taataan vapaus levitt kopioita vapaista ohjelmista (ja pyyt halutessaan maksu tst
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specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

Kun tss Lisenssiss puhutaan vapaasta ohjelmasta, silloin ei tarkoiteta hintaa. GPL-lisenssit on nimittin
suunniteltu siten, ett kyttjle taataan vapaas levitt kopioita vapaista ohjelmista (ja pyyt halutessaan maksu tst
palvelusta). GPL-lisenssit takaavat mys sen, ett kyttj saa halutessaan ohjelman lhdekoodin, ett hn voi muuttaa
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Finally, software patents pose a constant threat to the existence of
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<para>
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<para>
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<para>
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<para>
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

<para>
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating system.
</para>

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

<para>
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a work based on the library and a work that uses the library. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
</para>

</sect1>

<sect1 id="terms" label="none">
<title>Ehdot kopioimiselle, levittämiselle ja muuttamiselle</title>
<sect2 id="sect0" label="0">
<title>Kohta 0</title>
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</para>

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</para>

<para>The Library, below, refers to any such software library or work which has been distributed under these terms. A work based on the Library means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term modification.)
Lhdekoodi tarkoittaa sen suositeltavaa muotoa muutosten tekemist varten. Kirjaston tydellinen lhdekoodi tarkoittaa kaikkea lhdekoodia kaikkiin teoksen sisältöihin ja liskoi kaikkiin sen mukana seuraaviin kytteiltyntiedostoihin sek skripteihin, joilla hallitaan ajettavan teoksen asennusta ja kntmist.

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The modified work must itself be a software library.
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
</para>
</listitem>
<li>
<para>
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
</para>
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<para>
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
</para>
</li>

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

<para>
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
</para>

<para>
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
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You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and
above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections above on a medium customarily used for software interchange.

Jos ajettavan tai objektikoodin levittminen tehdn tarjoamalla psy tietysta paikassa olevaan kopioon, tllin tarjoamalla vastaavasti psy samassa paikassa olevaan lhdekoodiin luetaan lhdekooin levittmiseksi, vaikka kolmansia osapuolia ei pakotettaisi kopioimaan lhdekoodia objektikoodin mukana.

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application...
to use the modified definitions.)
</para>
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<para>
Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.
</para>
</listitem>
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<para>
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in <link linkend="sect6a">Subsection 6a</link>
, above, for a charge no more than the cost of performing
this distribution.
</para>
</listitem>
</listitem>
<para>
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.
</para>
</listitem>
</listitem>
<para>
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
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<para>
For an executable, the required form of the <quote>work that uses the
Library</quote> must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
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</sect2>

<sect2 id="sect9" label="9">
<title>Kohta 9</title>


</sect2>

<sect2 id="sect10" label="10">
<title>Kohta 10</title>

<para>Aina kun Kirjastoa (tai Kirjastoon perustuvaa teosta) levitetn, vastaanottaja saa automaattisesti alkuperiselt tekijlt lisenssin kopioienda, levitt ja muuttaa Kirjastoa niden ehtojen ja edellytysten sitomin. Vastaanottajalle ei saa asettaa mitn lisajoitteita tss annettujen oikeuksien kytst. Lisenssin saajalla ei ole vastuuta valvoa noudattavatko kolmannet osapuolet tt Lisenssi.</para>

</sect2>

<sect2 id="sect11" label="11">
<title>Kohta 11</title>

<para>Jos oikeuden pts tai vite patentin loukkauksesta tai jokin muu syy (rajoittumatta patenttipuistoituksiin) asettaa Lisenssin saajalle ehtoja (olia niiden alkuper sitten tuomio, sopimus tai jokin muu), jotka ovat vastoin nit lisensisiehtoja, ne eivt anna oikeutta poiketa tst Lisenssist. Jos levittminen ei ole mahdollista siten, ett samanaikaisesti toimitaan sek tnn Lisenssin ett joidenkin muiden rajoittavien velvoitteiden mukaisesti, tll Kirjastoa ei saa lainkaan levitt. Jos esimerkiksi jokin patenttilisenssi ei salli kaikille niille, jotka saavat Kirjaston Lisenssin saajalta joko suoraan tai epsuorasti, Kirjaston levittmist edelleen ilman rojaltimaksuja, tllin ainut tapa tyy sek patenttilisenssin ett tnn Lisenssin ehdot on olla levittmt Kirjastoa lainkaan.</para>

<para>Jos jokin osa tst kohdasta katsotaan ptemttmksi tai mahdollomaksi vahvistaa oikeudessa joissakin tietyiss olosuhteissa, silloin tt kohtaa on tarkoitus soveltaa ptevin osin ja muissa olosuhteissa kokonaisuudessaan.</para>

<para>Tmm kohdan tarkoitus ei ole johtaa siihen, ett Lisenssin saaja rikkoi mitn patenttia tai muuta varallisuuskoettua tai vitt mitn niiden oikeuksien pevyyst; tmm kohdan ainoana tarkoituksena on suojata vapaiden ohjelmien levystyrjelmyn yhtenisyys, joka on luotu kytkmill yleisi lisenssej. Monet ovat antaneet arvokkaan panoksena mit erilaisimpiin ohjelmiin, joita levitetss jyrjestelms luottaa sen soveltamisen pysyvyteen; on jokaisen tekn ja lahjoittajan ptsvallassa haluako hn levitt ohjelmaa jossakin muussa jyrjestelmss ja Lisenssin saaja ei voi vaikuttaa thn valintaan.</para>

<para>Tmm kohdan tarkoituksena on tehdyn selvksi se, mitk on tnn Lisenssin muiden osien seurauks.</para>

</sect2>
Jos patentit tai tekijänoikeudella suojatut kytteilytyym rajoittavat Kirjaston levittämist tai kytte joissakin valtioissa, Kirjastosta alkuperäinen tekijä, joka lisensiöö ohjelmaansa tll Lisenssin, voi asettaa nimenomaisia maantieteellisiä levitysrajoituksia, jolloin levittäminen on sallittu jo kukaan- tai poisluvien mm. valtioilla. Tllises tapauksessa mm. rajoitukset otetaan huomioon kuin ne olisi kirjoitettu tll Lisenssin sekaan.


Jos Lisenssin saaja haluaa ottaa osia Kirjastosta mukaan muihin vapaisiin ohjelmiin, joiden levysetehdot ovat erilaiset, hän tulee kirjoittaa tekijälle ja kysy lupaa. Jos ohjelman tekijänoikeudet omistaa Free Software Foundation, on kirjoitettava heille; he tekevät koskus poikkeuksia. Free Software Foundationin ptsten ohjennossa on kaksi pmr; silyttä kaikista heidän vapaisista ohjelmista johdettujen ohjelmien vapaa asema ja yleisesti kannustaa ohjelmien jakamiseen ja uudelleen kytteen.

osapuoli, joka voi muuttaa tai levittävän kirjaston kuten edellä on sallittu, eivät ole missän tilanteessa vastuussa Lisenssin saajalle yleistä, erityisesti, satunnaisista tai seurauksellisista vahingoista (sisältäen, muttei tiheistä, tiedon katoamisen, tiedon v Mitsäyksen, Lisenssin sanajen tai kolmansien osapuolten menetykset ja kirjaston puutteen toimia minkä tahansa toisien ohjelmien kanssa), jotka aiheutuvat kirjaston kytystä tai siitä, että kirjastoa ei voi kytystä, siinkin tapauksessa, että tekijänoikeuden haltija tai kolmas osapuoli olisi maininnut kyseisten vahinkojen mahdollisuudesta.</para>
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</sect1>

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document">Document</link>, ou toute information indiquant les rapports entre l'auteur ou l'éditeur et le sujet (ou
tout autre sujet conexe) du Document, sans toutefois être en rapport direct avec le sujet lui-même (par exemple, si le
Document est un manuel de mathématiques, une Section secondaire ne traitera d'aucune notion mathématique). Cette
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ou LaTeX, les formats de fichiers SGML ou XML utilisant une DTD publiquement accessible, ainsi que les formats
de fichiers HTML simple et standard, crits de telle sorte qu'ils sont modifiables sans outil spécifique, sont des
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de la génération d'un format de sortie.</para>
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<listitem>
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<para>Conserver l'adresse réseau potentiellement indiquée dans le Document permettant quiconque d'accéder une Copie transparente du Document, ainsi que les adresses réseau indiquées dans le Document pour les versions précédentes sur lesquelles le Document se base. Ces liens peuvent être placés dans la section "Historique". Vous pouvez ne pas conserver les liens pour un travail datant de plus de quatre ans avant la version courante ou si l'éditeur d'origine vous en accorde la permission. </para>
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</sect1>
<br />
<sect1 id="fdl-section7" label="7">
<title>AGGREGATION AVEC DES TRAVAUX INDEPENDANTS</title>
<br />
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</sect1>
<br />
<sect1 id="fdl-section8" label="8">
<title>TRADUCTION</title>
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</sect1>
<br />
<sect1 id="fdl-section9" label="9">
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sect1

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sect1 id="fdl-section3" label="3">
<title>Mnoino razmnoevanje</title>
Pri izdajanju natisnjenih izvodov tega dokumenta v naki vi 100 izvodov, in dovoljenje dokumenta zahteva tudi Besedila na platnicah, je treba izvede obdati s platnicami, ki itljivo in razumljivo nosijo vsa ta Besedila na platnicah: besedila na naslovnici in besedila na zadnji strani platnic. Na obeh platnicah mora biti tudi itljivo in razumljivo zavedeno izdajatelja teh izvodov. Prednja platnica mora vsebovati popoln naslov z vsemi enakimi oznako izrazito natisnjenimi in vidnimi besedami naslova. Na platnic ob tem dovoljeno dodati tudi druge stvari. Kopiranje s spremembami, omejenimi na platnice, e le ohranijo naslov tega dokumenta, v dokumenta in zadoajo tem pogojem, se lahko v drugih ozirih tejejo za dobesedno kopiranje.</para>

e je zahtevanih besedil za katero od platnic preve, da bi jih bilo mogo podati itljivo, je treba najprej vstaviti prve natete (kolikor jih pa razumno gre) na pravo platnico, in vstaviti preostanek na strani, ki neposredno sledijo naslovnici.</para>

e objavljate ali razirjate Nejasne izvode tega Dokumenta, v naki vi 100 izvodov, je treba bodisi vkljuiti strojno berljivo poleg vsakega Nejasnega izvoda, ali poleg vsakega Nejasnega izvoda objaviti tudi javno dostopno mesto v raultalnikem omreju, kjer je dostopna popolna Jasna kopija dokumenta, brez dodatnega materiala, in kjer s plon javnost, ki uporablja omreje, lahko brezplano prejme preko javnih standardnih omrejenih protokolov. e uporabite zadnjo izbire, je treba razumno predarn poskrbeti za to, da bo po objavi Nejasne oblike dela, Jasna oblika ostala dostopna na objavljenem mestu vsaj dozen leto po preteku datuma, ko je javnosti posredovan. presec down ali prek zastopnikov oziroma trgovcev na drobnite zasnovniki izvoda.</para>
Priporočeno je, ne pa tudi zahtevano, da se precej pred zaetkom razirjanja vejega tevila izvodov, vzpostavi stik z avtorji tega dokumenta, da imajo monost priskrbeti pred razirjanjem posodobljene različice dokumenta. 

Spremembe

Spremenjeno razliico tega dokumenta je dovoljeno razmnoevati in razirjati pod pogoji iz dokumenta, v kolikor bo izdana Spremenjena razliica pod tomo tem dovoljenjem, kjer Spremenjena razliica prevzame vlogo tega dokumenta, in torej to dovoljenje ureja razirjanje in spreminjanje Spremenjene različice za kogarkoli, ki poseje njeno izvod. Poleg tega je treba v Spremenjeni različici narediti naslednje:

- Na naslovni strani (ali platnicah) uporabite naslov, različen od naslova izvirnega dokumenta in vseh prejnjih različic (ki bi morale biti, e jih je kaj, natete v razdelku Zgodovina v dokumentu). e se izvirni zazonik s tem strinja, lahko uporabite isti naslov kot ga ima prejnj različica.
- Na naslovni strani kot avtorje nateti eno ali ve oseb ali drub, odgovornih za avtorstvo sprememb v Spremenjeni različici, skupaj z vsaj petimi glavnimi avtorji dokumenta (ali vsemi avtorji, e jih je manj kot pet).
- Na naslovni strani imenovati zazonika Spremenjene različice.
- Ohraniti vsa obvestila o pravicah razirjanja.
- Dodati ustrezno obvestilo o pravicah razirjanja za vse spremembe poleg drugih obvestil o pravicah razirjanja.
<listitem>
<para>V tem obvestilu dovoljenja ohranite popoln seznam <link linkend="fdl-invariant">Nespremenljivih razdelkov</link> in zahtevanih <link linkend="fdl-cover-texts">Besedil na ovitku</link>, podanih v obvestilu dovoljenja tega <link linkend="fdl-document">Dokumenta</link>.</para></listitem>

<listitem>
<para>Vključite nespremenjen izvod tega dovoljenja.</para></listitem>

<listitem>
<para>Ohranite razdelek, imenovan <quote>Zgodovina</quote>, in njegov naslov, in vanj dodajte postavko z vsaj naslovom, letom, novimi avtorji in izdajateljem <link linkend="fdl-modified">Spremenjene razliice</link>, kot je podana na <link linkend="fdl-title-page">Naslovni strani</link>. v dokumentu ni razdelka, imenovanega <quote>Zgodovina</quote>, ga ustvarite, in podajte naslov, leto, avtorje in izdajatelja <link linkend="fdl-document">Dokumenta</link> kot je podan na njegovi Naslovni strani, potem pa e dodajte postavko, v kateri opiite Spremenjeno razliico, kot pie v prejnjem stavku.</para></listitem>

<listitem>
<para>V kolikor obstaja, je priporočeno ohraniti omrežno mesto, za javni dostop do <link linkend="fdl-transparent">Jasnih</link> izvodov <link linkend="fdl-document">Dokumenta</link>, ki je navedeno v dokumentu, in podobno tudi vsa omrežna mesta z prejnjimi razliicami dokumenta, ki so navedena v dokumentu. Priporoljivo jih je dodati v razdelek <quote>Zgodovine</quote>. Mogoč pa je omrežna mesta tudi izspustiti za delo, ki je bilo izdano vsaj tiri leta pred samim dokumentom, ali, e izdajatelj, omenjen v ustreznim razliicam, to dovoli.</para></listitem>

<listitem>
<para>V vsakem razdelku, poimenovanem <quote>Zahvale</quote> ali <quote>Posvetila</quote>, je treba ohraniti naslov razdelka in v razdelku ohraniti vse izvorne vsebine za vse tam podane zahvale in/ali posvetila.</para></listitem>

<listitem>
<para>Ohraniti je treba vse <link linkend="fdl-invariant">Nespremenljive razdelke</link> <link linkend="fdl-document">Dokumenta</link>, z nespremenjenim besedilom in naslovni. tevilke ali druge oznake razdelkov ne tejejo za del naslovov razdelkov.</para></listitem>

<listitem>
<para>Izbrisati je treba vse razdelke, naslovljene <quote>Odobritve</quote>. Takni razdelki ne smejo biti vključeni v <link linkend="fdl-modified">Spremenjeni razliici</link>.</para></listitem>

<listitem>
<para>Ni dovoljeno preimenovati kateregakoli obstojeega razdelka v <quote>Odobritve</quote> ali v isto ime, kot
V primeru, da Spremenjena različica vključuje nove elne razdelke ali dodatke, ki tejejo za Drugotne razdelke in ne vsebujejo iz dokumenta prepisane snovi, je dovoljeno po lastni presoji označiti nekatere ali vse takne razdelke kot Nespremenljive. To je treba storiti tako, da se dodajo njihovi naslovi v seznam Nespremenljivih razdelkov v obvestilu dovoljenja Spremenjene različice. Ti naslovi se morajo razlikovati od vseh drugih naslovov razdelkov.

Dodate lahko razdelek, imenovan Odobritve, v Spremenjene različice različnih strank na primer, recenzijske izjave ali besedilo, ki je bilo odobreno s strani organizacije kot veljavna definicija standarda.

Kot Besedilo na naslovnici je dovoljeno dodati odlomek največ petih besed, kot Besedilo na zadnji strani pa odlomek največ 25 besed. Vsaka oseba lahko doda le po en odlomek Besedila na naslovnici in Besedila na zadnji strani platnic, vključno z odlomki po dogovorih. Edo se vsebuje besedilo na naslovc in ugotovitev, ki je bil d dan ali je bil dodan po dogovoru z isto (fizino ali pravno) osebo v zastopstvu, ni dovoljeno dodati o enega, pa pa je dovoljeno starega nadomestiti z izrecnim soglasjem prejnjega izdajatelja, ki je stari odlomek dodo.

Avtorji in izdajatelji s tem dovoljenjem ne dovolijo uporabe njihovih imen ali pritrditve ali implicitnega soglasja za katerokoli razlikovani dokument iz dokumenta vsebuje besedilo na naslovc s strani organizacije kot veljavna definicija standarda.

Zdrueno delo zahteva le en izvod tega dovoljenja, in ve Nespremenljivih razdelkov se lahko nadomestiti z enim samim. E Obstaja ve Nespremenljivih razdelkov z istim imenom, vendar različne vsebino, je treba narediti narediti s strani organizacije kot veljavna definicija standarda. Iste spremembe je treba narediti v imenih razdelkov in v obvestilu za Spremenjene različice različnih strank na primer, recenzijske izjave ali besedilo, ki je bilo odobreno s strani organizacije kot veljavna definicija standarda.
Dovoljeno je napraviti zbirko tega dokumenta in drugih dokumentov, izdanih pod pogoji tega dovoljenja, in nadomestiti posamezne izvode tega dovoljenja v razlinih dokumentih z enim samim izvodom, ki je vključen v zbirko, upotevajo zahteve tega dovoljenja za dobesedno razmnoževanje vsakega od teh dokumentov v vseh drugih pogledih. You may extract a single document from such a collection, and distribute it individually under this License, provided you insert a copy of this License into the extracted document, and follow this License in all other respects regarding verbatim copying of that document.

Zdruevanje z neodvisnimi deli

Zdruevanje dokumenta ali njegovih izpeljanih različic z drugimi loenimi in neodvisnimi dokumenti ali deli, v knjigi ali kakrnemkoli nosilcu hrambe ali razirjanja, kot celota ne teje za spremenjeno različico dokumenta, e za zdrueno zbirko nihe ne zahteva pravic razirjanja. Takno zdrueno delo se imenuje in to dovoljenje ne velja za druga samostojna dela, tako zdruena z dokumentom, zaradi tega, ker so zdruena z dokumentom, e niso sama izpeljana dela dokumenta. V kolikor so zahteve besedila na ovitku skladne z oddelkom 3 tega dokumenta, potem je dovoljeno, v kolikor je dokument del, ki je manj od etrtine celotne zbirke, besedilo na naslovnici postaviti na platnici, ki sta neposredno povezani le z dokumentom v zbirki. Sicer mora biti besedilo izpisano na naslovnicah celotne zbirke.

Prevod


Prenehanje veljavnosti

Dovoljeno ni razmnoževati, spreminjati, podrejati dovoljenja ali ga razrirjati, razen e je to izrecno dovoljeno s tem dovoljenjem. Vsak drugi poskus razmnoževanja, spreminjanja, podrejanja dovoljenja ali razirjanja Dokumenta je nien, in samodejno prekine vae pravice, izhajajo iz tega dovoljenja. Vendar pa se osebam, ki so svoj izvod ali pravice dobile od vas pod tem dovoljenjem, dovoljenje ne prekine, dokler se ji popolnoma podrejajo.
Prihodnje popravljene izdaje tega dovoljenja


Vsaki razliici dovoljenja je dodeljena edinstvena tevilka razliice. e <link linkend="fdl-document">Dokument</link> doloa, da zanj velja doloena <quote>ali katerakoli pozneje razliica</quote> tega dovoljenja, je dovoljeno izbirati pogoje in dolozila bodis ste razliice ali katerekoli pozneje izdane razliice (ne pa tudi osnutka), ki jo je izdala ustanova Free Software Foundation. e program ne doloa tevilke razliice dovoljenja, lahko izberete katerokoli razliico, ki jo je kdajkoli izdala ustanova Free Software Foundation (ne pa tudi osnutka).

Za uporabo tega dovoljenja v dokumentu, ki ste ga napisali, vkljuite izvod dovoljenja v dokument in takoj za naslovno stranjo vkljuite naslednje obvestilo o dovoljenju in pravicah razirjanja:

Avtorske pravice LETO VAE IME.

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V primeru, da ni <link linkend="fdl-invariant">Nespremenljivih razdelkov</link>, je treba v dokumentu zapisati, da je ta <quote>brez Nespremenljivih razdelkov</quote>, namesto, da so posami opredeljeni. Podobno je treba storiti tudi, e ni <link linkend="fdl-cover-texts">Besedila na ovitku</link>.

V kolikor dokument vsebuje netrivialne primere programske kode, vam priporoamo, da te primere izdate vzporedno pod dovoljenjem proste programske opreme, kot je Splono dovoljenje GNU (angl. GNU General Public License), po vaem izboru, da dovolite rabo te kode v prostih programih.
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Les licences de la plupart des logiciels sont conues pour vous enlever toute liberté de les partager et de les modifier. A contrario, la Licence Publique Générale est destinée garantir votre liberté de partager et de modifier les logiciels libres, et assurer que ces logiciels soient libres pour tous leurs utilisateurs. La présente Licence Publique Générale s'applique la plupart des logiciels de la Free Software Foundation, ainsi qu'un autre programme pour lequel ses auteurs s'engagent l'utiliser. (Certains autres logiciels de la Free Software Foundation sont couverts par la GNU Lesser General Public License la place.) Vous pouvez aussi l'appliquer aux programmes qui sont les vôtres.
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Pour protéger vos droits, il nous est nécessaire d'imposer des limitations qui interdisent quiconque de vous refuser ces droits ou de vous demander d'y renoncer. Certaines responsabilités vous incombent en raison de ces limitations si vous distribuez des copies de ces logiciels, ou si vous les modifiez.

Par exemple, si vous distribuez des copies d'un tel programme, titre gratuit ou contre une rémunération, vous devez accorder aux destinataires tous les droits dont vous disposez. Vous devez vous assurer qu'eux aussi reçoivent ou puissent disposer du code source. Et vous devez leur montrer les présentes conditions afin qu'ils aient connaissance de leurs droits.

Nous protégeons vos droits en deux étapes:

1. nous sommes titulaires des droits d'auteur du logiciel, et
2. nous vous livrons cette licence, qui vous donne l'autorisation légale de copier, distribuer et/ou modifier le logiciel.

En outre, pour la protection de chaque auteur ainsi que la nôtre, nous voulons nous assurer que chacun comprenne que ce logiciel libre ne fait l'objet d'aucune garantie. Si le logiciel est modifié par quelqu'un d'autre puis transmis des tiers, nous voulons que les destinataires soient mis au courant que ce qu'ils ont reçu n'est pas le logiciel d'origine, de sorte que tout problème introduit par d'autres ne puisse entacher la réputation de l'auteur original.

En définitive, un programme libre restera la merci des brevets de logiciels. Nous souhaitons viter le risque que les redistributeurs d'un programme libre fassent des demandes individuelles de licence de brevet, ceci ayant pour effet de rendre le programme propriétaire. Pour viter cela, nous tablissons clairement que toute licence de brevet doit être concédée de façon que l'usage en soit libre pour tous ou bien qu'aucune licence ne soit concédée.

Les termes exacts et les conditions de copie, distribution et modification sont les suivants.
ouvrage fond sur le Programme désigne soit le Programme, soit un ouvrage qui en drive au titre des lois sur le droit d'auteur: en d'autres termes, un ouvrage contenant le Programme ou une partie de ce dernier, soit l'identique, soit avec des modifications et/ou traduit dans un autre langage. (Cı-aprs, le terme modification implique, sans s'y rduire, le terme traduction) Chaque concessionnaire sera désign par vous.</para>

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Vous pouvez payer l'acte physique de transmission d'une copie, et vous pouvez, votre discrtion, proposer une garantie contre rmunration. </sect2>

Vous pouvez modifier votre copie ou des copies du Programme ou n'importe quelle partie de celui-ci, crant ainsi un ouvrage fond sur le Programme, et copier et distribuer de telles modifications ou ouvrage selon les termes de l'<link linkend="sect1">Article 1</link> ci-dessus, condition de vous conformer galement chacune des obligations suivantes: <orderedlist numeration="loweralpha">
<li>Vous devez munir les fichiers modifis d'avis bien visibles stipulants que vous avez modifi ces fichiers, ainsi que la date de chaque modification;</li>
<li>Vous devez prendre les dispositions ncessaires pour que tout ouvrage que vous distribuez ou publiez, et qui, en totalit ou en partie, contient ou est fond sur le Programme - ou une partie quelconque de ce dernier - soit concd comme un tout, titre gratuit, n'importe quel tiers, au titre des conditions de la présente Licence;</li>
<li>Si le programme modifi lit habituellement des instructions de faon interactive lorsqu'on l'excute, vous devez, quand il commence son exécution pour ladite utilisation interactive de la manire la plus usuelle, faire en sorte qu'il imprime ou affiche une annonce comprenant un avis de droit d'auteur ad hoc, et un avis stipulant qu'il n'y a pas de garantie (ou bien indiquant que c'est vous qui fournissez la garantie), et que les utilisateurs peuvent redistribuer le programme en respectant les prsentes obligations, et expliquant l'utilisateur comment voir une copie de la présente Licence. </note>
</sect2>
Si le Programme est lui-même interactif mais n'imprime pas habituellement une telle annonce, votre ouvrage fond sur le Programme n'est pas oblig d'imprimer une annonce.

Ces obligations s'appliquent l'ouvrage modifi pris comme un tout. Si des éléments identifiables de cet ouvrage ne sont pas fondu sur le Programme et peuvent raisonnablement être considérés comme des ouvrages indépendants distincts en eux-mêmes, alors la présente Licence et ses conditions ne s'appliquent pas à ces éléments lorsque vous les distribuez en tant qu'ouvrages distincts. Mais lorsque vous distribuez ces mêmes éléments comme partie d'un tout, lequel constitue un ouvrage fond sur le Programme, la distribution de ce tout doit être soumise aux conditions de la présente Licence, et les autorisations qu'elle octroie aux autres concessionnaires s'endroit l'ensemble de l'ouvrage et par conséquent chaque et toute partie indifféremment de qui l'a crit.

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L'accompagner de l'intégralité du code source correspondant, sous une forme lisible par un ordinateur, lequel doit être distribué au titre des termes des Articles 1 et 2 ci-dessus, sur un support habituellement utilisé pour l'échange de logiciels; ou,

L'accompagner d'une proposition écrite, valable pendant au moins trois ans, de fournir tout tiers, un tarif qui ne soit pas supérieure ce que vous cotez l'acte physique de raliser une distribution source, une copie intégrale du code source correspondant sous une forme lisible par un ordinateur, qui sera distribuée au titre des termes des Articles 1 et 2 ci-dessus, sur un support habituellement utilisé pour l'échange de logiciels; ou,

L'accompagner des informations reçues par vous concernant la proposition de distribution du code source correspondant. (Cette solution n'est autorisée que dans le cas d'une distribution non-commerciale et seulement si vous avez reçu le programme sous forme de code objet ou d'exécutable accompagné d'une telle proposition - en conformité avec le sous-Article b ci-dessus.)
Le code source d'un ouvrage désigne la forme favorite pour travailler des modifications de cet ouvrage. Pour un ouvrage exécutable, le code source integral désigne la totalité du code source de la totalité des modules qu'il contient, ainsi que les ventuels fichiers de définition des interfaces qui y sont associés, ainsi que les scripts utilisés pour contrôler la compilation et l'installation de l'exécutable. Cependant, par exception spéciale, le code source distribué n'est pas cens inclure quoi que ce soit de normalement distribué (que ce soit sous forme source ou binaire) avec les composants principaux (compilateur, noyau, et autre) du système d'exploitation sur lequel l'exécutable tourne, moins que ce composant lui-même n'accompagne l'exécutable.

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Chaque fois que vous redistribuez le Programme (ou n'importe quel ouvrage fond sur le Programme), une licence est automatiquement concédé au destinataire par le concédant originel de la licence, l'autorisant copier, distribuer ou modifier le Programme, sous réserve des présentes conditions. Vous ne pouvez imposer une quelconque limitation supplémentaire l'exercice des droits octroyés au titre des présentes par le destinataire. Vous n'avez pas la responsabilité d'imposer le respect de la présente Licence des tiers.
Si, conséquemment une décision de justice ou l'allégation d'une transgression de brevet ou pour toute autre raison (non limité un problème de brevet), des obligations vous sont imposés (que ce soit par jugement, conciliation ou autre) qui contredisent les conditions de la présente Licence, elles ne vous excusent pas des conditions de la présente Licence. Si vous ne pouvez distribuer de manière satisfaire simultanément vos obligations au titre de la présente Licence et toute autre obligation pertinente, alors il en découle que vous ne pouvez pas du tout distribuer le Programme. Par exemple, si une licence de brevet ne permettait pas une redistribution sans redevance du Programme par tous ceux qui reçoivent une copie directement ou indirectement par votre intermédiaire, alors la seule facon pour vous de satisfaire la fois la licence du brevet et la présente Licence serait de vous abstenir totalement de toute distribution du Programme.</para>

Si une partie quelconque de cet article est tenue pour nulle ou inopposable dans une circonstance particulière quelconque, l'intention est que le reste de l'article s'applique. La totalité de la section s'appliquera dans toutes les autres circonstances.</para>

Cet article n'a pas pour but de vous induire à transgresser un quelconque brevet ou d'autres revendications un droit de propriété ou contester la validité de la moindre de ces revendications; cet article a pour seul objectif de protéger l'intégrité du système de distribution du logiciel libre, qui est mis en œuvre par la pratique des licences publiques. De nombreuses personnes ont fait de généreuses contributions au large spectre de logiciels distribués par ce système en se fiant l'application cohérente de ce système; il appartient chaque auteur/donateur de décider si il ou elle veut distribuer du logiciel par l'intermédiaire d'un quelconque autre système et un concessionnaire ne peut imposer ce choix.</para>

Cet article a pour but de rendre totalement limpide ce que l'on pense être une conséquence du reste de la présente Licence.</para>

Si la distribution et/ou l'utilisation du Programme est limitée dans certains pays que ce soit par des brevets ou par des interfaces soumises au droit d'auteur, le titulaire originel des droits d'auteur qui décide de couvrir le Programme par la présente Licence peut ajouter une limitation géographique de distribution explicite qui exclue ces pays afin que la distribution soit permise seulement dans ou entre les pays qui ne sont pas ainsi exclus. Dans ce cas, la présente Licence incorpore la limitation comme si elle tait crite dans le corps de la présente Licence.</para>

La Free Software Foundation peut, de temps en autre, publier des versions révisées et/ou nouvelles de la Licence Publique Générale. De telles nouvelles versions seront similaires à la présente version dans l'esprit mais pourront différer dans le détail pour prendre en compte de nouvelles problématiques ou inquiétudes.</para>

Chaque version possède un numéro de version la distinguant. Si le Programme précise le numéro de version de la présente Licence qui s'y applique et "une version ultérieure quelconque", vous avez le choix de suivre les conditions de la présente version ou de toute autre version ultérieure publiée par la Free Software Foundation. Si le Programme ne spécifie aucun numéro de version de la présente Licence, vous pouvez choisir une version...
quelconque publie par la Free Software Foundation quelque moment que ce soit.</para>

<sect2 id="sect10" label="10">
<title>Article 10</title>

<para>Si vous souhaitez incorporer des parties du Programme dans d'autres programmes libres dont les conditions de distribution sont différentes, créez l'auteur pour lui en demander l'autorisation. Pour les logiciels dont la Free Software Foundation est titulaire des droits d'auteur, créez la Free Software Foundation; nous faisons parfois des exceptions dans ce sens. Notre décision sera guide par le double objectif de préserver le statut libre de tous les droits de nos logiciels libres et de promouvoir le partage et la réutilisation des logiciels en général.</para>

</sect2>

<sect2 id="sect11" label="11">
<title>ABSENCE DE GARANTIE</title>

<subtitle>Article 11</subtitle>

<para>COMME LA LICENCE DU PROGRAMME EST CONCÉDE TITRE GRATUIT, AUCUNE GARANTIE NE S'APPLIQUE AU PROGRAMME, DANS LES LIMITES AUTORISÉES PAR LA LOI APPLICABLE. SAUF MENTION CONTRAIRE CRITÉ, LES TITULAIRES DU DROIT D'AUTEUR ET/OU LES AUTRES PARTIES FOURNISSENT LE PROGRAMME <quote>TELQUEL</quote>, SANS AUCUNE GARANTIE DE QUELQUE NATURE QUE CE SOIT, EXPRESSE OU IMPLICITE, Y COMPRIS, MAIS SANS Y TRE LIMIT, LES GARANTIES IMPLICITES DE MARCHANDABILITÉ ET D'ADAPTATION UN OBJECTIF PARTICULIER. VOUS ASSUMEZ LA TOTALITÉ DES RISQUES LIÉS LA QUALITÉ ET AUX PERFORMANCES DU PROGRAMME. SI LE PROGRAMME SE RÉVÉLÉ DÉFECTUEUX, LE CÔT DE L'ENTRETIEN, DES RÉPARATIONS OU DES CORRECTIONS NÉCESSAIRES VOUS INCOMBENT INTEGRALMENT.</para>

</sect2>

<sect2 id="sect12" label="12">
<title>Article 12</title>

<para>EN AUCUN CAS, SAUF LORSQUE LA LOI APPLICABLE OU UNE CONVENTION CRITÉ L'EXIGE, UN TITULAIRE DE DROIT D'AUTEUR QUEL QU'IL SOIT, OU TOUTE PARTIE QUI POURRAIT MODIFIER ET/OU REDISTRIBUER LE PROGRAMME COMME PERMIS CI-DESSUS, NE POURRAIT ÊTRE TENUS POUR RESPONSABLE VOTRE GARD DES DOMMAGES, INCLUANT LES DOMMAGES GÉNÉRAUX, SPÉCIFIQUES, SECONDAIRES OU CONSÉCUTIFS, RÉSULTANT DE L'UTILISATION OU DE L'INCAPACITÉ D'UTILISER LE PROGRAMME (Y COMPRIS, MAIS SANS Y TRE LIMIT, LA PERT.DE DONNÉES, OU LE FAIT QUE DES DONNÉES SOIENT RENDUES IMPRÉCISÉES, OU LES PERTES PROUVENT PAR VOUS OU PAR DES TIERS, OU LE FAIT QUE LE PROGRAMME CHOUE INTRAPER ÀVEC UN AUTRE PROGRAMME QUEL QU'IL SOIT) MÊME SI LE DIT TITULAIRE DU DROIT D'AUTEUR OU LE PARTI CONCERNÉ À T AVERTI DE L'ÉVENTUALITÉ DE TELS DOMMAGES.</para>

</sect2>
</sect1>
</article>
Licencia Pública General Menor de GNU

Las licencias que cubren la mayor parte del software están diseñadas para quitarle a usted la libertad de compartirlo y modificarlo, las Licencias Públicas Generales de GNU pretenden garantizarle la libertad de compartir y modificar el software libre, para asegurar que el software es libre para todos sus usuarios.

Se permite a todo el mundo copiar y distribuir copias literales de este documento de licencia, pero no se permite modificarlo.
Las licencias que cubren la mayor parte del software están diseñadas para quitarle a usted la libertad de compartirlo y modificarlo, las Licencias Públicas Generales de GNU pretenden garantizarle la libertad de compartir y modificar el software libre, para asegurar que el software es libre para todos sus usuarios.

Cuando hablamos de software libre, estamos refiriéndonos a libertad, no a precio. Nuestras Licencias Públicas Generales están diseñadas para asegurarnos de que tenga la libertad de distribuir copias de software libre (y cobrar por ese servicio si quiere), de que reciba el código fuente o que pueda conseguirlo si lo quiere, de que pueda modificar el software o usar fragmentos de él en programas nuevos libres, y de que sepa que puede hacer todas estas cosas.

Esta licencia, la Licencia Pública General Menor (Lesser General Public Licence), se aplica a algunos paquetes de software diseñados específicamente tipicamente bibliotecas de la Free Software Foundation y de otros autores que decidan usarla. Usted puede usarla también, pero le sugerimos que piense primero cuidadosamente si esta licencia o la General Public Licence ordinaria, es o no la estrategia mejor a usar en un caso particular, basándose en las explicaciones siguientes.

Cuando hablamos de software libre, nos referimos a libertad de uso, no a precio. Nuestras Licencias Públicas Generales están diseñadas para asegurar que usted tiene la libertad de distribuir copias de software libre (y cobrar por
este servicio si quiere); que recibe el código fuente o que puede obtenerlo si lo quiere; que puede modificar el software y usar partes de él en nuevos programas libres; y de que ha sido informado de que puede hacer estas cosas.</para>

<para>Para proteger sus derechos necesitamos algunas restricciones que prohíban a cualquiera negarle a usted estos derechos o pedirle que renuncie a ellos. Estas restricciones se traducen en ciertas obligaciones que le afectan si distribuye copias de la biblioteca, o si la modifica.</para>

<para>Por ejemplo, si distribuye copias de la biblioteca, sea gratuitamente, o a cambio de una contraprestación, debe dar a los receptores todos los derechos que tiene. Debe asegurarse de que ellos también reciban, o pueden conseguir, el código fuente. Si enlaza otro código con la biblioteca, debe proporcionar archivos objeto completos a los receptores, para que ellos puedan reenlazarlos con la biblioteca despues de hacer cambios a la biblioteca y recompilarla. Y debe mostrarles estas condiciones de forma que conozcan sus derechos.</para>

<para>Protegemos sus derechos con la combinación de dos medidas:
(1) Derechos de copia de la Biblioteca (copyright), y
(2) le ofrecemos esta licencia, que le da permiso legal para copiar, distribuir y/o modificar la biblioteca.</para>

<para>Para proteger a cada uno de los distribuidores, queremos dejar muy claro que no existe garantía para la biblioteca libre. Además, si la biblioteca es modificada por alguien y se transmite, los receptores deberán saber que lo que ellos tienen no es la versión original, de forma que la reputación del autor original no se vea afectada por problemas que podran ser introducidos por otros.</para>

<para>Finalmente, cualquier programa libre est constante amenazado por patentes sobre el software. Queremos evitar el peligro de que una compañía no pueda restringir efectivamente a los usuarios de un programa libre obteniendo una licencia restrictiva de un propietario de una patente. Para evitar esto, insistimos en que cualquier licencia de patente obtenida por una versión de la biblioteca deba ser consistente con la completa libertad de uso especificada en esta licencia.</para>

<para>La mayoría del software de GNU, incluyendo algunas bibliotecas, estn cubiertos por la Licencia Licencia Pública General ordinaria. Esta licencia, la GNU Licencia Pública General Menor, se aplica a ciertas bibliotecas designadas, y es un poco diferente de la Licencia Pública General. Usamos esta licencia para ciertas bibliotecas con el fin de permitir enlazar esas bibliotecas en programas no libres.</para>

<para>Cuando un programa est enlazado con una biblioteca, ya sea estéticamente o usando una biblioteca compartida, la combinación de los dos es hablando legalmente un trabajo combinado, una derivación de la biblioteca original. La Licencia Pública General entonces permite dicho enlazado si lo la combinación entera cumple con este criterio de libertad. La Licencia Pública General Menor permite un criterio más relajado para enlazar otro código con la biblioteca.</para>

<para>Llamamos a esta licencia Licencia Pública General <quote>Menor</quote> porque hace Menos para proteger la libertad del usuario que la Licencia Licencia Pública General ordinaria. Tambien proporciona otros desarrolladores de software libre Menos de las ventajas respecto a competir con programas que no sean software libre. Estas desventajas son la razón por la que usamos la licencia Licencia Pública General para muchas bibliotecas. Sin embargo, la licencia Menor proporciona ventajas en ciertas circunstancias especiales.</para>

<para>Por ejemplo, en raras ocasiones puede haber una necesidad especial de fomentar lo más ampliamente posible el uso de una determinada biblioteca, de forma que esta se convierta en un estándar. Para conseguir esto, se debe
permitir a los programas no libres el uso de estas bibliotecas. Un caso más frecuente es aquel en el que una biblioteca libre hace el mismo trabajo que el que realizan las bibliotecas no libres más ampliamente usadas. En este caso, hay poco que ganar limitando la biblioteca nicamente al software libre, de manera que usamos la Licencia Pública General Menor.

En otros casos, el permiso para usar una biblioteca determinada en programas no libres posibilita a un mayor número de gente a usar una gran cantidad de software libre. Por ejemplo, el permiso para utilizar la biblioteca GNU C en programas no libres posibilita a mucha más gente a usar al completo el sistema operativo GNU, así como su variante, el sistema operativo GNU/Linux.

Aunque la Licencia Pública General Menor es menos protectora para las libertades del usuario, asegura que el usuario de un programa que est enlazado con la biblioteca tiene la libertad y los medios para ejecutar ese programa usando una versión modificada de la biblioteca.

Los términos y las condiciones exactas para la copia, distribución y modificación se indican a continuación. Preste especial atención a la diferencia entre un trabajo basado en la biblioteca y un trabajo que utiliza la biblioteca. El primero contiene código derivado de la biblioteca, mientras que el último debe estar unido con la biblioteca para ser ejecutado.

Este Acuerdo de Licencia se aplica a cualquier biblioteca de software u otro programa que contenga una notificación colocada por el poseedor del copyright u otra parte autorizada diciendo que puede distribuirse bajo los términos de la licencia Licencia Pública General Menor (también llamada esta Licencia). Cada licenciatario será referido como Usted. Una biblioteca significa una colección de funciones y/o datos de software, preparados para ser enlazados de una forma cómoda con programas de aplicación (que usan algunas de estas funciones y datos) para formar ejecutables.

La Biblioteca en lo que sigue, se refiere a cualquier trabajo o biblioteca de software que haya sido distribuido bajo estos términos. Un trabajo basado en la Biblioteca significa que, o la Biblioteca o cualquier trabajo derivado, están bajo la ley de derechos de autor: es decir, un trabajo que contiene a la Biblioteca o a una parte de ella, ya sea de forma literal o con modificaciones y/o traducida de forma clara a otro idioma (mas abajo se incluye la traducción sin restricción en el término modificación).

El código fuente para un trabajo se refiere a la forma preferida del trabajo para hacer modificaciones en 1. Para una Biblioteca, el código fuente completo significa todos los codigos fuente para todos los módulos que contenga la biblioteca, ms cualquier fichero de definición de interfaz asociado, y los scripts asociados para controlar la compilación y la instalación de la biblioteca.

Otras actividades que no sean la copia, distribución y modificación no se encuentran cubiertas por esta Licencia; se encuentran fuera de su objetivo. La opción de ejecutar un programa utilizando la Biblioteca no está...
restringido, y el resultado de dicho programa esta cubierto nicamente si su contenido constituye un trabajo basado en la Biblioteca (independientemente del uso de la Biblioteca como herramienta para escribirlo). Que esto sea cierto va a depender de lo que haga la Biblioteca y de lo que haga el programa que utiliza la Biblioteca.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>Seccin 1</title>
<para>Puede copiar y distribuir copias literales del cdigo fuente completo de la Biblioteca tal y como la recibe, en cualquier medio, a condicin de que usted publique de forma manifiesta y apropiada, en cada una de las copias, un aviso conveniente de derechos de autor y una renuncia de garanta; mantenga intactas todas las notificaciones que se refieran a esta Licencia y a la ausencia de cualquier garanta; y distribuya una copia de esta Licencia junto con la Biblioteca.</para>

<para>Puede copiar y distribuir copias literales del cdigo fuente completo de la Biblioteca tal y como la recibe, en cualquier medio, a condicin de que usted publique de forma manifiesta y apropiada, en cada una de las copias, un aviso conveniente de derechos de autor y una renuncia de garanta; mantenga intactas todas las notificaciones que se refieran a esta Licencia y a la ausencia de cualquier garanta; y distribuya una copia de esta Licencia junto con la Biblioteca.</para>

<para>Puede copiar y distribuir copias literales del cdigo fuente completo de la Biblioteca tal y como la recibe, en cualquier medio, a condicin de que usted publique de forma manifiesta y apropiada, en cada una de las copias, un aviso conveniente de derechos de autor y una renuncia de garanta; mantenga intactas todas las notificaciones que se refieran a esta Licencia y a la ausencia de cualquier garanta; y distribuya una copia de esta Licencia junto con la Biblioteca.</para>

</sect2>

<sect2 id="sect2" label="2">
<title>Seccin 2</title>
<para>Puede modificar su copia o copias de la Biblioteca o de cualquier parte de ella, formando as un trabajo basado en la Biblioteca, y copiar y distribuir tales modificaciones o trabajo bajo los trminos de la <link linkend="sect1">Seccin 1</link> de arriba, siempre que usted tambin cumpla con todas estas condiciones:
</para>

<orderedlist numeration="loweralpha">
<li><para>El trabajo modificado debe ser por s mismo una biblioteca.</para></li>
<li><para>Debe hacer que los ficheros modificados lleven avisos llamativos, declarando que usted cambi los ficheros y la fecha de cualquier cambio.</para></li>
<li><para>Debe hacer que a todo el trabajo le sea concedida una licencia, sin cargo a terceras partes, bajo los trminos de esta Licencia.</para></li>
<li><para>Si una facilidad en la Biblioteca modificada se refiere a una funcin o a una tabla de datos, que deba ser suministrada por un programa de aplicacin que usa la facilidad de otra manera que como un argumento pasado cuando la facilidad es invocada, entonces debe hacer un esfuerzo de buena fe para asegurar que, en caso de que una aplicacin no suministre tal funcin o tabla, la facilidad aun funcione y haga que cualquier parte de su finalidad siga siendo significativa.</para></li>
</orderedlist>

<para>(Por ejemplo, una funcin en una biblioteca para computar races cuadradas tiene un propsito que est bien definido completamente, independientemente de la aplicacin. Por tanto, la Subseccin 2d exige que cualquier funcin o tabla suministrada por la aplicacin y usada por esa funcin debe ser opcional: si la aplicacin no la suministra, la funcin raz cuadrada debe seguir computando races cuadradas).</para>

<para>Estos requisitos se aplican al trabajo modificado como un todo. Si hay secciones identificables de ese
trabajo que no derivan de la Biblioteca, y se pueden considerar razonablemente independientes y trabajos separados, por ellas mismas, entonces esta Licencia y sus trminos, no se aplican a aquellas secciones cuando usted los distribuya como trabajos separados. Pero cuando usted distribuya las mismas secciones como parte de un todo, que sea un trabajo basado en la Biblioteca, la distribucin del todo debe estar bajo los trminos de esta Licencia cuyos permisos para otros licenciatarios se extienden a todo el conjunto, y as para todas y cada una de las partes, sin tener en cuenta quien las escribi.</para>

<para>As pues, la intencin de esta seccin no es exigir derechos o discutir los derechos de un trabajo escrito completamente por usted; ms bien, la intencin es ejercer el derecho a controlar la distribucin de trabajos derivados o colectivos basados en la Biblioteca.</para>

<para>Adems, la mera agregacin de otro trabajo no basado en la Biblioteca con la Biblioteca (o con un trabajo basado en la Biblioteca) en un volumen de almacenaje o en un medio de distribucin, no pone al otro trabajo bajo los objetivos de esta Licencia.</para>

<para>Usted puede optar por aplicar a una determinada copia de la Biblioteca, los trminos de la Licencia Pbla General GNU ordinaria en vez de los de esta Licencia. Para hacer esto, debe alterar todas las notificaciones que se refieren a esta Licencia, para que se refieran a la Licencia Pbla General GNU ordinaria, versin 2, en vez de a esta Licencia. (Si ha aparecido una versin ms reciente que la versin 2 de la Licencia Pbla General GNU ordinaria, entonces, si quiere, puede especificar esa nueva versin). No haga ningn otro cambio en estas notificaciones.</para>

<para>Una vez que se haya hecho este cambio en una copia dada, es irreversible para esa copia, de modo que la Licencia Pbla General GNU ordinaria se aplica a todas las copias siguientes y a trabajos derivados realizados a partir de esa copia.</para>

<para>Esta opcin es til cuando usted quiere copiar parte del cdigo de la Biblioteca dentro de un programa que no es una biblioteca.</para>

<para>Puede copiar y distribuir la Biblioteca (o una porcin o derivado de ella, bajo la Seccin 2) en cdigo objeto o forma ejecutable bajo los trminos de las Secciones 1 y 2 arriba indicadas, siempre que la acompae con el correspondiente cdigo fuente legible (a mquina) completo, que debe ser distribuido bajo los trminos de las Secciones 1 y 2 de arriba, en un medio usado habitualmente para el intercambio de software.</para>

<para>Si la distribucin del cdigo objeto se hace ofreciendo el acceso a su copia desde un lugar designado, entonces ofreciendo un acceso equivalente a la copia del cdigo fuente desde el mismo sitio se satisfacen los requisitos para la distribucin del cdigo fuente, aunque las terceras partes no estn obligadas a copiar el cdigo fuente junto con el cdigo objeto.</para>
Un programa que no contiene derivado de ninguna porción de la Biblioteca, pero est diseñado para trabajar con la Biblioteca al ser compilado o enlazado con ella, se denomina un <quote>trabajo que usa la Biblioteca</quote>. Dicho trabajo, por separado, no es un trabajo derivado de la Biblioteca, y por tanto cae fuera del mbito de esta Licencia.

Sin embargo, enlazar un <quote>trabajo que usa la Biblioteca</quote> con la Biblioteca, crea un ejecutable que es un derivado de la Biblioteca (porque contiene porciones de la Biblioteca). En vez de un <quote>trabajo que usa la Biblioteca</quote>. El ejecutable est por tanto cubierto por esta Licencia. La <link linkend="sect6">Sección 6</link> expone los términos para la distribución de tales ejecutables.

Cuando un <quote>trabajo que usa la Biblioteca</quote> utiliza material de un fichero cabecera que forma parte de la Biblioteca, el código objeto del trabajo puede ser un trabajo derivado de la Biblioteca aunque el código fuente no lo sea. Que esto sea cierto es especialmente significativo si el trabajo puede ser enlazado sin la Biblioteca, o si el trabajo es por sí mismo una biblioteca. El límite para que esto sea cierto no est definido con precisión por la ley.

Si dicho fichero objeto utiliza solo parámetros numéricos, esquema de estructura de datos, y pequeñas macros y pequeñas funciones en línea (diez líneas o menos de longitud), entonces el uso del fichero objeto no est restringido, sin tener en cuenta si esto es legalmente un trabajo derivado. (Ejecutables que contengan este código objeto y porciones de la Biblioteca estan aún bajo la <link linkend="sect6">Sección 6</link>.

En caso contrario, si el trabajo es un derivado de la Biblioteca, usted puede distribuir el código objeto del trabajo bajo los términos de la <link linkend="sect6">Sección 6</link>. Cualquier ejecutable que contenga ese trabajo tambien cae bajo la <link linkend="sect6">Sección 6</link>, est o no enlazado con la Biblioteca.

Como excepción a las secciones anteriores, puede tambien combinar o enlazar un <quote>trabajo que usa la Biblioteca</quote> con la Biblioteca para producir un trabajo que contenga porciones de la Biblioteca, y distribuir ese trabajo bajo los términos de su elección, siempre que los términos permitan la modificación del trabajo por el uso propio del cliente y la ingeniería inversa para la depuración de tales modificaciones.

Debe incluir con cada copia del trabajo una notificación de que la Biblioteca se utiliza en él, y de que la Biblioteca y su uso estn cubiertos por esta Licencia. Debe suministrar una copia de esta Licencia. Si el trabajo, durante su ejecución, muestra notas de derechos de autor, usted deber incluir entre ellas las notas de derechos de autor de la Biblioteca, as como una referencia que dirija al usuario a la copia de esta Licencia. Ademés, usted debe hacer una de estas cosas: <orderedlist numeration="loweralpha">
<liitem>
Acompañar el trabajo con el correspondiente código fuente legible (a máquina) completo de la Biblioteca, incluyendo cualquier cambio que fuera utilizado en el trabajo (el cual debe ser distribuido bajo las
Secciones <link linkend="sect1">1</link> y <link linkend="sect2">2</link> de arriba); y, si el trabajo es un ejecutable enlazado con la Biblioteca, con el completo, legible (a máquina) <quote>trabajo que usa la Biblioteca</quote>, como código objeto y/o código fuente, de forma que el usuario pueda modificar la Biblioteca y reenlazar entonces para producir un ejecutable modificado que contenga la Biblioteca modificada. (Se entiende que el usuario que cambia los contenidos de los archivos de definiciones en la Biblioteca no necesariamente ser capaz de recompilar la aplicación para usar las definiciones modificadas).</para>

<listitem>
<listitem>
<para>Usar un mecanismo de biblioteca compartida adecuado para enlazar con la Biblioteca. Un mecanismo adecuado es uno que (1) utiliza en tiempo de ejecución una copia de la biblioteca que est ya presente en el ordenador del usuario, en vez de copiar funciones de biblioteca dentro del ejecutable, y (2) funcionar correctamente con una versión modificada de la biblioteca, si el usuario instala una, mientras que la versión modificada sea de interfaz compatible con la versión con la que se hizo el trabajo.</para>
</listitem>
</listitem>

<listitem>
<para>Acompañar el trabajo con una oferta escrita, válida por tres años al menos, para proporcionar a dicho usuario los materiales especificados en la <link linkend="sect6a">Subsección 6a</link> de arriba, por un precio no superior al coste de realizar esta distribución.</para>
</listitem>

<listitem>
<para>Si la distribución del trabajo se hace ofreciendo el acceso a la copia desde un lugar determinado, ofrecer un acceso equivalente para la copia de los materiales especificados anteriormente desde el mismo lugar.</para>
</listitem>

<listitem>
<para>Verificar que el usuario ha recibido ya una copia de estos materiales o que usted ya le ha enviado una copia a este usuario.</para>
</listitem>
</orderedlist>

<para>Para un ejecutable, la forma requerida del <quote>trabajo que usa la Biblioteca</quote> debe incluir todos los programas de datos y utilidades necesitados para reproducir el ejecutable desde 1. Sin embargo, como una excepción especial, los materiales a distribuir no necesitan incluir nada de lo que es distribuido normalmente (ya sea en forma binaria o fuente) con los componentes principales (compilador, núcleo, y demás) del sistema operativo en el cual funciona el ejecutable, a menos que el componente por él mismo acompañe al ejecutable.</para>

<para>Puede suceder que este requisito contradiga las restricciones de la licencia de otras bibliotecas propietarias que no acompañan normalmente al sistema operativo. Dicha contradicción significa que no puede usar estas y la Biblioteca juntas en un ejecutable que usted distribuya.</para>

</sect2>

<sect2 id="sect7" label="7">
<title>Sección 7</title>

<para>Puede colocar facilidades de biblioteca, que son un trabajo basado en la Biblioteca, juntas en una sola biblioteca junto con otras facilidades de biblioteca no cubiertas por esta Licencia, y distribuir dicha biblioteca combinada, con tal que la distribución separada del trabajo basado en la Biblioteca y de las otras facilidades de biblioteca est, por lo demás, permitida, y con tal que usted haga estas dos cosas:</para>

</sect2>
Acompañar la biblioteca combinada con una copia del mismo trabajo basado en la Biblioteca, no combinado con cualquier otra facilidad de biblioteca. Esto debe ser distribuido bajo los términos de las Secciones superiores.

Incluir una notificación destacada con la biblioteca combinada del hecho de que parte de ella es un trabajo basado en la Biblioteca, y explicando donde encontrar las formas sin combinar acompañantes del mismo trabajo.

Usted no puede copiar, modificar, sublicenciar o distribuir la Biblioteca salvo por lo permitido expresamente por esta Licencia. Cualquier otro intento de copia, modificación, sublicenciamiento o distribución de la Biblioteca es nulo, y dar por terminados automáticamente sus derechos bajo esa Licencia. Sin embargo, los terceros que hayan recibido copias, o derechos, de usted bajo esta Licencia no verrán terminadas sus licencias, siempre que permanezcan en total conformidad con ella.

No se le exige que acepte esta Licencia, puesto que no la ha firmado. Sin embargo, ninguna otra cosa le concede a usted el permiso para modificar o distribuir la Biblioteca o sus trabajos derivados. Estas acciones están prohibidas por ley si usted no acepta esta Licencia. Por tanto, al modificar o distribuir la Biblioteca (o cualquier trabajo basado en la Biblioteca), usted indica su aceptación de esta Licencia para hacerlo, y todos sus términos y condiciones para copiar, distribuir o modificar la Biblioteca o los trabajos basados en ella.

Cada vez que usted distribuye la Biblioteca (o cualquier trabajo basado en la Biblioteca), el receptor recibe automáticamente una licencia del titular original de la Licencia para copiar, distribuir, enlazar con o modificar la Biblioteca sujeto a estos términos y condiciones. Usted no debe imponer ninguna restricción posterior sobre el ejercicio de los derechos otorgados aquí mencionados. Usted no es responsable de imponer conformidad con esta Licencia por terceras partes.
Si, como consecuencia de un juicio o infracción de patente o por cualquier otra razón (no limitada a asuntos de patente) a usted se le imponen condiciones (sea orden judicial, acuerdo u otras) que contradigan las condiciones de esta Licencia, eso no le dispensa de las condiciones de esta Licencia. Si usted no puede distribuirla de tal forma que satisfaga simultáneamente sus obligaciones con respecto a esta licencia y cualquier otras obligaciones pertinentes, entonces como consecuencia, no debe en absoluto distribuir la Biblioteca. Por ejemplo, si una licencia de patente no permitiera la redistribución libre de derechos de autor de la Biblioteca a todo aquellos que reciben copias directamente o indirectamente a través de usted, entonces la nica forma en la que podrá satisfacer tanto esto como esta Licencia será abstenerse completamente de la distribución de la Biblioteca.

Si cualquier parte de esta sección se considera inválida o inaplicable bajo cualquier circunstancia particular, se intentará aplicar el balance de la sección, y en otras circunstancias se intentará aplicar la sección como un todo.

No es el propósito de esta sección el inducirle a usted a infringir cualquier demanda de derechos de patente u otros derechos de propiedad o el impugnar la validez de tales demandas; esta sección tiene el nico propósito de proteger la integridad del sistema de distribución de software libre, lo cual se lleva a cabo mediante prácticas de licencia pública. Mucha gente ha hecho generosas contribuciones al amplio rango de software distribuido a través de este sistema, confiando en la firme aplicación de este sistema; es decisión del autor/donante decidir si el o ella quiere distribuir software a través de cualquier otro sistema y una licencia no puede imponer esa elección.

Esta sección tiene el propósito de esclarecer a fondo lo que se cree ser una consecuencia del resto de esta licencia.

Si la distribución y/o uso de la Biblioteca está restringida en ciertos países mediante patentes o interfaces con derechos de autor, el propietario de los derechos originales, el cual puso la Biblioteca bajo esta Licencia, puede añadir una limitación a la distribución geográfica explícita excluyendo estos países, de forma que esta distribución se permita solamente en o entre países no excluidos. En tal caso, esta Licencia incorpora la limitación como si estuviera escrita en el cuerpo de esta Licencia.

La Free Software Foundation puede publicar versiones nuevas y revisadas de la Licencia Licencia Pública General Menor de vez en cuando. Dichas versiones nuevas serán similares en espíritu a la presente versión, pero pueden diferir en detalles para solucionar nuevos problemas o preocupaciones.

Cada versión tiene un número de versión que la distingue. Si la Biblioteca especifica que se aplica un número de versión en particular de esta Licencia y cualquier versión posterior, usted tiene la opción de seguir los términos y condiciones de la versión especificada o cualquiera posterior que haya sido publicada por la Free Software Foundation. Si la Biblioteca no especifica un número de versión de esta Licencia, puede escoger cualquier versión que haya sido publicada por la Free Software Foundation.
Sección 14

Si quiere incorporar partes de la Biblioteca en otros programas libres cuyas condiciones de distribución son incompatibles con estos, escriba al autor para pedirle permiso. Para el software cuyos derechos de autor pertenecen a la Free Software Foundation, escriba a la Free Software Foundation; nosotros hacemos a veces excepciones a esto. Nuestra decisión se guiará generalmente por los dos objetivos de preservar el estatus libre de todo lo derivado de nuestro software libre y de promover la compartición y reutilización de software.

Sección 15

DEBIDO A QUE LA BIBLIOTECA ESTÁ LICENCIADA LIBRE DE CARGO, NO HAY GARANTÍA para LA BIBLIOTECA EN LA EXTENSIÓN PERMITIDA POR LA LEY APLICABLE. EXCEPTO CUANDO SE ESTABLEZCA DE OTRO MODO POR ESCRITO, LOS POSEEDORES DEL DERECHO DE AUTOR Y/O OTRAS PARTES SUMINISTRAN LA BIBLIOTECA <quote>TAL CUAL</quote> SIN GARANTÍA DE NINGUNA CLASE, YA SEA DE FORMA EXPRESA O IMPLÍCITA, INCLUYENDO, PERO NO LIMITADO A, LAS GARANTÍAS IMPLÍCITAS DE COMERCIALIZIDAD Y ADECUACIÓN PARA UN PROPÓSITO PARTICULAR. TODO EL RIESGO EN CUANTO A CALIDAD Y EJECUCIÓN DE LA BIBLIOTECA ES SUYO. SI LA BIBLIOTECA RESULTARA ESTAR DEFECTUOSA, USTED ASUME EL COSTE DE TODO EL MANTENIMIENTO, REPARACIÓN O CORRECCIÓN NECESARIA.

Sección 16

BAJO NINGÚN CONCEPTO, A MENOS QUE SEA REQUERIDO POR LA LEY APLICABLE O DE ACUERDO A UN ESCRITO, CUALQUIER POSEEDOR DE DERECHOS DE AUTOR O CUALQUIER OTRA PARTE QUE PUEDA MODIFICAR Y/O REDISTRIBUIR LA BIBLIOTECA COMO SE PERMITE ARRIBA, SER RESPONSABLE CON USTED POR DAOS, INCLUYENDO CUALQUIER DAO GENERAL, ESPECIAL, ACCIDENTAL O CONSECUENTE ORIGINADO POR EL USO O INCAPACIDAD DE USAR LA BIBLIOTECA<INCLUYENDO PERO NO LIMITANDO, A LAS PRDIDAS DE DATOS O A LA PRODUCCIÓN DE DATOS INCORRECTOS, O PRDIDAS SUFRIDAS POR USTED O TERCERAS PARTES O UN FALLO DE LA BIBLIOTECA PARA FUNCIONAR CON CUALQUIER OTRO SOFTWARE) INCLUSO SI TAL TITULAR U OTRA PARTE HA SIDO NOTIFICADA DE LA POSIBILIDAD DE TALES DAOS.
Var och en ger kopiera och distribuera exakta kopior av detta licensavtal, men att ndra det r inte tilltet. 

De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public License r tvrtom skapad fr att garantera din frihet att dela med dig av och frndra fri programvara - fr att frskra att programvaran r fri fr alla dess anvndare.
De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public Licenses (nedan kallade GPL) r i stllet avsedda att garantera din frihet att dela med dig av och frndra fri programvara att frska att programvaran r fri fr alla dess anvndare.

Nr vi talar om fri programvara syftar vi p frihet att använda den, inte pris. Vra GPL r skapade fr att garantera din rtt att distribuera kopior av fri programvara (och ta betalt fr tjnsten om du nskar), att garantera att du fr kllkoden eller kan f den om du s nskar, att garantera att du kan ndra i programvaran och anvndta delar av den i ny fri programvara samt att garantera att du r informerad om dessa rttigheter.

Denna licens, Lesser General Public License, gller vissa specialutformade programpaket srskilt bibliotek frn Free Software Foundation och andra upphovsmn som bestmmer sig fr att använda licensen. Du kan ocks använda licensen, men vi freslr att du utifrån beskrivningen nedan funderar p om det r den hr licensen eller ordinarie GPL som r den bsta strategin fr dig.

Nr vi talar om fri programvara syftar vi p frihet att använda den, inte pris. Vra GPL r skapade fr att garantera din rtt att distribuera kopior av fri programvara (och ta betalt fr tjnsten om du nskar), att garantera att du fr kllkoden eller kan f den om du s nskar, att garantera att du kan ndra i programvaran och anvndta delar av den i ny fri programvara samt att garantera att du r informerad om dessa rttigheter.

Fr att skydda dina rttigheter mste vi infra begrnsningar som frbjuder distributrer att hindra dig frn att anvnda dessa rttigheter eller krva att du skall ge upp dessa rttigheter. Dessa begrnsningar motsvaras av vissa frpliktelser fr dig om du distribuerar kopior av biblioteket eller om du ndrar biblioteket.

Om du exempelvis distribuierar kopior av biblioteket, gratis eller mot en avgift, mste du ge mottagaren alla de rttigheter du sjlv har. Du mste ocks se till att mottagaren fr eller kan f kllkoden. Om du lnkar annan kod till biblioteket mste du tillhandahlla fullstndiga objektfiler till mottagaren s att han/hon kan terlnka dem med biblioteket efter att ha gjort ndringar i biblioteket och kompilerat om det. Du mste ven visa dessa licensvillkor fr mottagaren s att han/hon knner till sina rttigheter.

Vi skyddar dina rttigheter i tv steg: (1) upphovsrätt till biblioteket och (2) dessa licensvillkor som ger dig laglig tilltelse att kopiera, distribuera och/eller ndra biblioteket.

Fr varje enskild distributrs skerhet vill vi ftydliga att det inte limnas ngra garantier fr det fria biblioteket. Om biblioteket ndras av ngen annan n upphovsmannen och vidareverlts, br mottagaren knna till att han/hon inte har
originalversionen och att frmdringar av och felaktigheter i biblioteket inte skall belasta den ursprunglige upphovsmannen.</para>

Slutligen skall nmnas att all fri programvara hotas av programvarupatent. Vi vill undvika att fretag kan frhindra anvndningen av fri programvara genom att skaffa en begrnsande licens frn en patentinnehavare. Vi insisterar drfr p att alla patentlicenser som erhlls fr en version av biblioteket mste vara freliga med den fulla nyttjandefriheten i den hr licensen.</para>

De flesta GNU-program, inklusive vissa bibliotek, teks av ordinarie GPL. Den hr licensen, GNU Lesser General Public License (nedan kallad LGPL), gller vissa specificerade bibliotek och skiljer sig avsevrt frn GPL. Vi anvnder den hr licensen fr vissa bibliotek i syfte att tillta lnkning av biblioteken till icke-fria programvaror.</para>

Slutsammanslagningen ur rttslig synpunkt ett kombinerat verk, en hrledning ur det ursprungliga biblioteket. Enligt ordinarie GPL tills drfr sdan lnkning endast om hela kombinationen verensstimmer med kriterierna fr fri programvara. LGPL tiller mer uppluckrade kriterier fr lnkning av annan kod till biblioteken.</para>

Vi kallar denna licens quot;begrnsadquot; eftersom skyddet av anvndarens frihet r mindre n genom ordinarie GPL. Den ger only utvecklare av fri programvara frre frdelar jmfrn med konkurrerande icke-fria program. Det r dessa nackdelar som r orsaken till att vi behller GPL fr mnga bibliotek. Den begrnsade licensen medfr dock frdelar under vissa speciella omstndigheter.</para>

I sllsynta fall kan det finnas srskt behov av att uppmuntra bredast mjliga anvndning av ett visst bibliotek s att det de facto blir standard. I syfte att uppn detta mste icke-fria program tilltas anvnda biblioteket. Vanligare att ett fritt bibliotek utfrr samma uppgift som ofta anvnda icke-fria bibliotek. I det senare fallet finns det inte mycket att vinna p att begrnsa det fria biblioteket till fri programvara enbart, s vi anvnder d den begrnsade licensen.</para>

Andra fall ger tilltelse att anvnda ett visst bibliotek i icke-fria program fler mmiskor mjlighet att anvnda en stor mngd fria programvaror. Som exempel kan nmnas att tilltelse att anvnda biblioteken GNU C i icke-fria program, gr det mjligt fr fler personer att anvnda hela GNU-operativsystemet eller GNU/Linux-operativsystemet.</para>

Ven om den begrnsade licensen ger ett mindre omfattande skydd av anvndarnas frihet, garanterar det att anvndaren av ett program som lnkat till biblioteket har friheten och mjligheten att kra programmet via en ndrad version av Biblioteket.</para>

De exakta villkoren och frsttningarna fr att kopiera, distribuera och ndra programvaran beskrivs nedan. Observera skillnaden mellan ett verk r quot;basequot;basert på biblioteketquot; och ett quot;verk som anvnder biblioteketquot;. Det frstnmda innehller koden som hrletts ur biblioteket medan det senare mste kombineras med biblioteket fr att kras.</para>

VILLKOR FR ATT KOPIERA, DISTRIBUTERA OCH NDRA PROGRAMVARAN

Paragraf 0
Detta licensavtal gäller samtliga programbibliotek eller andra program som innehåller en upphovsrättsklausul från upphovsrättsinnehavaren eller annan behörig part som sger att det kan distribueras enligt villkoren i Lesser General Public License (nedan kallad "Licensen"). Samtliga licensinnehavare tituleras med "du".

Med ett "bibliotek" avses en samling programfunktioner och/eller data som frästes att enkelt kunna inkas till applikationsprogram (som använder vissa av dessa funktioner och viss data) fr att skapa kvalbara filer.

Biblioteket nedan hänvisar till alla sådana programbibliotek eller verk som har distribuerats enligt dessa licensvillkor. Ett "verk baserat på Biblioteket" avser antingen Biblioteket eller hrealda verk enligt upphovsrättslig lagstiftning: det vill sga ett verk som innehåller hela eller delar av Biblioteket, antingen en exakt kopia eller ndrad kopia och/eller versatt till ett annat språk. (Versstningar ingr nedan utan begrepp "ndring eller ndra").

Med "kllkod" fr ett verk avses den fredgna formen av verket fr att kunna dra ndningar av verket. Fr ett bibliotek betyder den fullständiga kllkoden all kllkod fr alla ingende moduler, eventuella dithrande definitionsfiler fr grnssnitt samt skript som anvands fr att styra kompilering och installation av biblioteket.


Du kan kopiera och distribuera exakta kopior av Bibliotekets fullständiga kllkod i den form du mottagit det, oavsett medium, frutsatt att du tydligt och korrekt p varje kopia publicerar en riktig upphovsrättsklausul och garantifriskrivningsklausul, vidhiller alla hnvisningar till Licensen och till alla garantifriskrivningar samt distribuerar en kopia av Licensen tillsammans med Biblioteket.

Du kan ta ut en avgift fr proceduren att verfra en kopia och du kan erbjuda garanti mot en avgift om du s nskar.

Du kan ndra din kopia eller dina kopior av Biblioteket eller delar av det och p s stt skapa ett verk baserat på Biblioteket. Du kan ven kopiera och distribuera dessa ndningar eller verk enligt villkoren i "Paragraf 1" ovan, under frutstning att ven fljande villkor r uppfyllda: 

- Det ndrade verket mste i sig sjlv vara ett programvarubibliotek.
- De ndrade filerna mste innehlla tydlig information om att du har ndrat filerna och vilket datum dessa
<para>Hela verket mste licensieras utan kostnad till alla tredjemn enligt villkoren i Licensen.\)</para>

<para>Om en modul i det ndrade Biblioteket hnvvisar till en funktion eller en datatabell som skall levereras med ett applikationsprogram som anvnder den modulen, annat n som ett argument nr modulen anropas, mste du frskra att, i hndelse av att en applikation inte tillhandahller funktionen eller tabellen, modulen nd fungerar och utf det den huvudsakligen syftar till.\)</para>

<para>(Exempelvis har en funktion i ett bibliotek som skall berkna kvadratrter ett klart och vldefinierat syfte oberoende av applikationen. Drfr krvs att samtliga applikationsfunktioner och -tabeller som anvnds av denna funktion, enligt paragraf 2d, mste vara valfria: om applikationen inte tillhandahller det mste kvadratrotsfunktionen nd berkna kvadratrter.)\)</para>

<para>Dessa krav gller det ndrade verket i dess helhet. Om identifierbara delar av verket inte hrrr frn Biblioteket och rimligen kan anses fristande och separata verk gller inte licensvillkoren i dessa delar nr de distribueras som separata verk. Om samma delar distribueras som en del av en helhet som innehller verk baserat p Biblioteket, mste distributionen i sin helhet enligt villkoren i Licensen. Licensen skall i sdant fall glla fr andra licensinnehavare fr hela verket och drned till varje del av Biblioteket ouvsett vem som r upphovsman till de olika delarna.\)</para>

<para>Avsikten med denna paragraf r inte att hvda rttigheter eller ifrgastta dina rttigheter till ett verk som skrivits helt av dig. Syftet r i stllet att utva rtten att kontrollera distributionen av hrledda verk eller kombinerade verk baserade p Biblioteket.\)</para>

<para>Om det p ett lagrings- eller distributionsmedium finns ett annat verk som inte baseras p Biblioteket (eller ett verk baserat p Biblioteket) tillsammans med Biblioteket omfattas inte det andra verket av Licensen.\)</para>

<para>Avsikten med denna paragraf r inte att hvda rttigheter eller ifrgastta dina rttigheter till ett verk som skrivits helt av dig. Syftet r i stllet att utva rtten att kontrollera distributionen av hrledda verk eller kombinerade verk baserade p Biblioteket.\)</para>

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<para>Om det p ett lagrings- eller distributionsmedium finns ett annat verk som inte baseras p Biblioteket (eller ett verk baserat p Biblioteket) tillsammans med Biblioteket omfattas inte det andra verket av Licensen.\)</para>

<para>Avsikten med denna paragraf r inte att hvda rttigheter eller ifrgastta dina rttigheter till ett verk som skrivits helt av dig. Syftet r i stllet att utva rtten att kontrollera distributionen av hrledda verk eller kombinerade verk baserade p Biblioteket.\)</para>

<para>Om det p ett lagrings- eller distributionsmedium finns ett annat verk som inte baseras p Biblioteket (eller ett verk baserat p Biblioteket) tillsammans med Biblioteket omfattas inte det andra verket av Licensen.\)</para>

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<para>Om det p ett lagrings- eller distributionsmedium finns ett annat verk som inte baseras p Biblioteket (eller ett verk baserat p Biblioteket) tillsammans med Biblioteket omfattas inte det andra verket av Licensen.\)</para>

<para>Avsikten med denna paragraf r inte att hvda rttigheter eller ifrgastta dina rttigheter till ett verk som skrivits helt av dig. Syftet r i stllet att utva rtten att kontrollera distributionen av hrledda verk eller kombinerade verk baserade p Biblioteket.\)</para>
Du kan kopiera och distribuera Biblioteket (eller del av det eller verk hrledda ur Biblioteket enligt <link linkend="sect2">paragraf 2</link>) i objektkod eller kvalbar form enligt villkoren i paragraf <link linkend="sect1">1</link> ovan under frutsättning att du bifogar den kompletta maskinsläbara källkoden, vilken mst distribueras i enlighet med paragraf <link linkend="sect1">1</link> och <link linkend="sect2">2</link> ovan, p ett medium som i allmhnhet anvnds fr utbyte av programvara.

Om distribution av objektkod utfrs genom att erbjudas tillgng till att kopiera den frn en bestm plats skall motsvarande tillgng till att kopiera kllkoden frn samma plats rknas som distribution av kllkoden, ven om tredjeman inte behver kopiera kllkoden tillsammans med objektkoden.

Ett program som inte innehller del som hrfrn frn Biblioteket, men r skapat fr att arbeta med Biblioteket genom att kompileras eller lnkas med det, kallas ett <quote>verk som anvnder Biblioteket</quote>. Ett sdant verk r i sig inte ett hrlett verk av Biblioteket och faller utanfr licensens rckvidd.

Ett program som inte innehller del som hrfrn frn Biblioteket, men r skapat fr att arbeta med Biblioteket genom att kompileras eller lnkas med det, kallas ett <quote>verk som anvnder Biblioteket</quote>. Ett sdant verk r i sig inte ett hrlett verk av Biblioteket och faller utanfr licensens rckvidd.

Undantag frn paragraferna ovan kan gras fr kombination eller lnkning av ett <quote>verk som anvnder Biblioteket</quote> med Biblioteket fr att skapa ett verk som innehller delar av Biblioteket samt distribution av verket enligt andra villkor, under frutsättning att villkoren tillter ntringar i verket fr kundens egen rkning och omvnt
Varje kopia av verket mste tfljas av ett tydligt meddelande att Biblioteket används i verket och att Biblioteket och dess användning tcks av den hr Licensen. Du mste bifoga en kopia av Licensen. Om verket under körning visar upphovsrtsklausuler mste du ven inkludera upphovsrtsklausuler fr Biblioteket samt en referens till kopian av denna Licens. Du mste ven gra en av fljande saker: <orderedlist numeration="loweralpha">
</orderedlist>

Bifoga den kompletta kllkoden fr Biblioteket i maskinsbar form inklusive eventuella ndringar som anvnts i verket (vilka skall distribueras enligt paragraf 1 och 2) samt, om verket r en krbar fil lnkad till Biblioteket, det kompletta maskinsbara <quote>verket som anvnder Biblioteket</quote> som objektkod och/eller kllkod, s att anvndaren kan ndra Biblioteket och sedan terlnka det fr att skapa en frndrad krbar fil innehlande det ndrade Biblioteket. (Detta beror p att anvndaren som ndrar innehlet av definitionsfilerna i Biblioteket kanske inte kan kompilera om applikationen fr att anvnda de ndrade definitionerna.)

Anvnda en lmplig delad biblioteksfunktion fr lnkning med Biblioteket. En lmplig funktion r en som (1) under kringningen anvnder en redan befintlig kopia av biblioteket i stllet fr att kopiera biblioteksfunktioner till den krbara filen och (2) fungerar korrekt med en ndrad version av biblioteket, om anvndaren installerar en, s lnge den ndrade versionen r grnsnittskompatibel med versionen som verket skapades fr.

Bifoga ett skriftligt erbjudande, gllande i minst tre r, att ge samma anvndare materialen upprknade i ovan, mot en avgift som inte r hgre n sjlvkostnaden fr distributionen.

Om distributionen av verket sker genom erbjudande av tillgng till kopiering frn en bestmd plats, erbjuda motsvarande tillgng att kopiera de ovan nmnda materialen frn samma plats.

 Kontrollera att anvndaren redan har mottagit en kopia av materialen eller att du redan har skickat en kopia till denna anvndare.

Fr krbarafiler mste <quote>verket som anvnder Biblioteket</quote> innehlla samtliga data- och hjlppprogram som behvs fr att skapa en krbar fil frn den. Ett undantag kan dock gras fr material som normalt distribueras, antingen i binrform eller kllkod, med huvudkomponenterna (kompilator, kna osv.) i vilket den krbara filen krs, svida inte denna komponent medfljer den krbara filen.

Det kan intrffa att detta krav motsger licensbegrnsningarna i andra patenterade bibliotek som normalt inte medfljer operativsystemet. Sdana begrnsningar innebr att du inte kan anvnda de patenterade biblioteken samtidigt med Biblioteket i en krbar fil som du distribuerar.
Du kan placera biblioteksfunktioner som r ett verk baserat på Biblioteket sida vid sida i ett enskilt bibliotek tillsammans med andra biblioteksfunktioner som inte tcks av Licensen, och distribuera ett sdant kombinerat bibliotek under frusttning att separat distribution av verket baserat p Biblioteket och av de andra biblioteksmodulerna r tilltet, samt under frusttning att du gr ngot av fljande:

- Bifogar en kopia av samma verk baserat p Biblioteket, men skild frn andra biblioteksfunktioner. Distributionen mste ske enligt villkoren i ovanstende paragrafer.
- Meddelar tydligt i det sammansatta biblioteket att en del av biblioteket r ett verk baserat p Biblioteket samt frklarar var den medfljande separata versionen av samma verk kan terfinnas.


Om, till fljd av ett domstolsutslag eller anklagelse om patentintrng eller av ngot annat skl (ej begrnsat till patentfrgor), villkor lggs dig (antingen genom domstolsbeslut, avtal eller p annat stt) som strider mot den hr Licensen, befriar det dig inte frn ngot av villkoren i Licensen. Om du inte kan distribuera Biblioteket och samtidigt uppfylla villkoren enligt Licensen och andra skyldigheter, fr du som en konsekvens inte distribuera Biblioteket. Om exempelvis ett patent inte tillter fri distribution av Biblioteket till alla dem som mottar kopior direkt eller indirekt frn dig, mste du avst helt frn distribution av Biblioteket.

Om ngon del av denna paragraf frklaras ogiltig eller ej verkstllbar i ngot sammanhang skall terstoden av paragrafen glla och paragrafen i sin helhet gller i andra sammanhang.

Syftet med denna paragraf r inte att frm dig att beg intrng i patent eller andra rtigheter eller att frm dig att bestrida giltigheten i sdana rtigheter. Det enda syftet med denna paragraf r att skydda distributionssystemet fr fri programvara vilket gits genom användandet av dessa licensvillkor. Mnga mnniskor har lmnat generas bidrag till det stora utbudet av programvara som distribueras i det hr systemet och stter sin tillit till en fortsatt anvndning av systemet. Det r upphovsmannen sjlv som beslutar om han/hon vill distribuera programvara genom detta eller annat system och en licensinnehavare kan inte framtvinga ett sdant beslut.

Denna paragrafs syfte r att gra helt klart vad som anses vara konsekvensen av terstende delen av Licensen.

Om distributionen och/eller anvndningen av Biblioteket r begrnsad i vissa lnder, p grund av patent eller upphovsrtsligt skyddade grnssnitt, kan upphovsmannen som placerar Biblioteket under den hr Licensen lgga till en uttrycklig geografisk spridningsklause, enligt vilken distribution r tillten i lnder frutom dem i vilket det r frbjudet. Om s r fallet kommer begrnsningen att utgra en fullvrdig del av Licensen.

Free Software Foundation kan ge ut reviderade och/eller nya versioner av LGPL frn tid till annan. Sdana nya versioner kommer i sin helhet att pminna om nuvarande version, men kan skilja sig t i detaljer som berr nya problem eller vervganden.


Om du vill anvnda delar av Biblioteket i andra fria programvaror vars distributionsvillkor inte r freliga
med dessa skall du skriva till upphovsmannen och begra tillstånd. Fr programvara dr Free Software Foundation har upphovsrätt, skriver du till Free Software Foundation. Vi gr ibland undantag fr detta. Vrt belsut kommer att styras av tv ml, nmligen att bevara den fria statusen av alla verk som hrleds ur vr fria programvara samt att frmj delning och teranvndning av programvara i allmnhet.</para>
</sect2>

<sect2 id="sect15" label="15">
<title>INGEN GARANTI</title>
<subtitle>Paragraf 15</subtitle>

<para>VEN OM BIBLIOTEKET LICENSIERAS UTAN KOSTNAD, GES INGEN GARANTI FR
BIBLIOTEKET, UTOM SDAN GARANTI SOM MSTE GES ENLIGT GLLANDE LAGSTIFTNING. FRUTOM
NR S SKRIFTLIGT ANGES, TILLHANDAHILLER UPPHOVSRTTSINNEHAVAREN OCH/ELLER ANDRA
PARTER BIBLIOTEKET I <quote>BEFINTLIGT SKICK</quote> (AS IS) UTAN GARANTI AV NGOT SLAG,
VARKEN UTTRYCKLIGA ELLER UNDERFRSTDDA, INKLUSIVE, MEN INTE BEGRNSAT TILL
UNDERFRSTDDA GARANTIER VID KP OCH LMPLIGHERT FR ETT VISST NDAML. HELA RISKEN FR
KVALITET OCH ANVNDBARHET AV BIBLIOTEKET BRS AV DIG. OM BIBLIOTEKET SKULLE VISA
SIG BEHFTAT MED FEL BR DU ALLA KOSTNADER FR FELETS AVHJLPANDE, REPARATION ELLER
NDVNDIG SERVICE.</para>
</sect2>

<sect2 id="sect16" label="16">
<title>Paragraf 16</title>

<para>INTE I NGOT FALL, SVIDA INTE DET KRVS ENLIGT GLLANDE LAGSTIFTNING ELLER
AVTALAS SKRIFTLIGT, SKALL EN UPPHOVSRTTSINNEHAVARE ELLER ANNAN PART SOM KAN
NDRA OCH/ELLER DISTRIBUERA BIBLIOTEKET ENLIGT OVAR, VARA SKYLDIG UTGE ERSTTNING
FR SKADA DU LIDER, INKLUSIVE ALLMN, Direkt eller Indirekt skada som fjrer p grund
av anvndning av, eller omjlighet att anvnda, biblioteket (inkluativa men inte
begrsat till fluster av data, data som framslls felaktigt, fluster som du
eller trede man lider eller fel i biblioteket som gr att det inte fungerar med
annan programvara), ven om upphovsrtsinnehavare eller annan part har
underrttats om mjligheten till sdan skada.</para>
</sect2>
</sect1>
</article>
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GNU (GNU Library General Public License, .).

Free Software Foundation FSF, . .)

GNU (GNU Library General Public License, .).

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 46694
We protect your rights with two steps:

<orderedlist numeration="arabic">
  <listitem>
    copyright the software, and
  </listitem>
  <listitem>
    offer you this license which gives you legal permission to copy, distribute and/or modify the software.
  </listitem>
</orderedlist>
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.

**Exception:**

If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
You may copy and distribute the Program (or a work based on it, under
Section 2) in object code or executable form under the terms of
Sections 1 and 2 above provided that you also do one of the following:

- Accompany it with the complete corresponding machine-readable source code, which
  must be distributed under the terms of Sections 1 and 2 above on a medium
  customarily used for software interchange; or,

- Accompany it with a written offer, valid for at least three years, to give any
  third party, for a charge no more than your cost of physically performing source
  distribution, a complete machine-readable copy of the corresponding source code,
  to be distributed under the terms of Sections 1 and 2 above on a medium customarily
  used for software interchange; or,

- Accompany it with the information you received as to the offer to distribute
  corresponding source code. (This alternative is allowed only for noncommercial
  distribution and only if you received the program in object code or executable form
  with such an offer, in accord with Subsection b above.)
Yleens tietokoneohjelmien lisenssisopimukset on suunniteltu siten, että ne estvät ohjelmien vapaan jakamisen ja muuttamisen. Sen sijaan GPL-lisenssi on suunniteltu takaamaan kyttyn vapaus jakaa ja muuttaa ohjelmaa lisessä varmistaa, että ohjelma on vapaan kaikille kyttjille. GPL-lisenssi soveltuu posaan Free Software Foundationin ohjelmia ja mihin tahansa muuhun ohjelmaan, jonka tekijä ja oikeudenomistajat sitoutuvat sen kytyn. (Joihinkin Free Software Foundationin ohjelmien sovelletaan GPL-lisenssin sijasta LGPL-lisenssi [GNU-kirjastolisenssi]). Kuka tahansa voi kyt GPL-lisenssillä.


Jokaisen joka esimerkiksi levittää ohjelmakopioita GPL-lisenssin alaisesta ohjelmasta, ilman sekaan tai maksusta, on annettava kyttjille kaikki oikeudet, jotka hänellä on. Jokaisella kyttjällä on oltava varmasti mahdollisuus saada ohjelman lähdekoodi. Ohjelman kyttjille on myös esitetty tms lisenssisopimuksen ehdot, jotta ne tiedtävän oikeutensa.

Jokaisen oikeudet turvataan kahdella toimenpiteellä:

<listitem>
<para>Ohjelma suojaataan tekijöikeudella, ja/</para>
</listitem>
<listitem>
</listitem>
Ohjelmistopatentit uhkaavat jokaista vapaata ohjelmaa. On olemassa vaara, ett vapaiden ohjelmien levittjt patentoitavat ohjelmia sill seurauksella, ett heill on ohjelmiin omistusoikeus. Tmn vlttmiseksi jokainen patentti on joko lisensoitava ilmaiseksi kaikille kyttjille tai jettv kokonaan lisensoimatta.

Seuraa tarkat ehdot vapaiden ohjelmien kopioimiselle, levittmiselle ja muuttamiselle.
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of <link linkend="sect1">Section 1</link> above, provided that you also meet all of these conditions:

<orderedlist numeration="loweralpha">
    <listitem>
        <para>
            You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
        </para>
    </listitem>
    <listitem>
        <para>
            You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
        </para>
    </listitem>
    <listitem>
        <para>
            If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.
        </para>
    </listitem>
</orderedlist>

<note>
    <title>Exception:</title>
    <para>
        If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
    </para>
</note>

<para>Nm ehdot koskevat muuteltua teosta kokonaisuudessaan. Jos yksilitvt osat tst teoksesta eivt ole johdettuja Ohjelmasta ja ne voidaan perustellusti katsoa itsenisiksi ja erillisiksi teoksiksi, silloin tm Lisenssi ja sen ehdot eivt
You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
Teoksen lhdekoodi tarkoittaa sen suositeltavaa muotoa muutosten tekemist varten. Ajettavan teoksen tydellinen lhdekoodi tarkoittaa kaikkia lhdeko mia kaikkiin teoksen sisältöön moduleihin ja lisksi kaikkiin sen mukana seuraaviin kytöttömyydytöstoihin sek skripteihiin, joilla hallitaan ajettavan teoksen asennusta ja kntmist. Kuitenkin erityisen poikkeuksena levitetyn lhdekoon ei tarvitse sisätt mitn sellaista, mik yleens levitetn (joko lhdeko di- tai binrimuodossa) kytittjä tekoja pkosielementtien (kntj, ydin, jne.) mukana, joiden pl teosta ajetaan, ellei tllinen komponentti tule ajettavan teoksen mukana.

Jos ajettavan tai objektiikodin levittminen tehdn tarjoamalla psy tietyss paikassa olevaan kopioon, tllin tarjoamalla vastaavasti psy samassa paikassa olevaan lhdekoon luetaan lhdekoiniin levittmiseksi, vaikka kolmansiosapuolia ei pakotettaisi kopioimaan lhdekoiia objektiikoon mukana.

Ohjelman kopioiminen, muuttaminen, lisensointi edelleen tai Ohjelman levittminen muuten kuin tnn Lisenssin ehtojen mukaisesti on kielletty. Kaikki yritykset muulla tavoin kopioida, muuttaa, lisensoida edelleen tai levitt Ohjelmiaa ovat ptemttmi ja johtavat automaattisesti tnn Lisenssin mukaisten oikeuksien pttymiseen. Sen sijaan ne, jotka ovat saaneet kopioita tai oikeuksia Lisenssin saajalta tnn Lisenssin ehtojen mukaisesti, eivt menet saamiaan lisensoiduja oikeuksia niin kauan kuin he noudattavat nit ehtoja.


Aina kun Ohjelma (tai Ohjelman perustuvaa teosta) levitet, vastaanottaja saa automaattisesti alkuperiselt tekijlt lisenssin kopioida, levitt ja muuttaa Ohjelma niden ehtojen ja edellytysten sitomina. Vastaanottajalle ei saa asettaa mitn lisarajoitteita tss annettujen oikeuksien kytst. Lisenssin saajalla ei ole vastuuta valvossa noudattavatko kolmannet osapuolet tt Lisenssi.
Jos jokin osa tätä kohdasta katsootaan pelättyksi tai mahdolliseksi vahvistaa oikeudessa joissakin tietyissä olosuhteissa, silloin tämä kohta on tarkoitus soveltaa ptevin osin ja muissa olosuhteissa kokonaisuudessaan.

Tämän kohdan tarkoitus ei ole johtaa siihen, että Lisenssin saaja rikkoisi miten patenttia tai muuta varallisuusikeutta tai vitt mitin niden oikeuksien ptevydest; tämä kohdan ainoana tarkoituksena on suojata vapaiden ohjelmien levysyrjestelmän yhtenäisyydessä, joka on luotu kytkinnll yleisi lisenssej. Monet ovat antaneet arvokkaan panoksen niille erilaisimpeen ohjelmiin, joita levitetään sujuvasti ja muissa vastuullisesti levityksen sopimusten mukaisesti, jolloin Ohjelmaa ei saa lainkaan levittää. Jos esimerkiksi jokin patenttilisenssi ei sella kaikille niille, jotka saavat Ohjelman Lisenssin saajalta joko suoraan tai epäsuorasti, Ohjelman levittäminen edelleen ilman rojalitsemausta, tllin ainut tapa tyyttäksee patenttilisenssin tmm Lisenssin ehdon on olla levittävä Ohjelmaa lainkaan.

Jos patentit tai tekijänoikeudella suojatut kytkllä levitettävät Ohjelmat tai vitt jotakin melkein nimesä vallioissa, Ohjelman alkuperäinen tekijä, joka lisensiö ohjelman lisenssillä, voi asettaa nimenomaisia maantieteellisiä levysyrjestelmiä, jolloin levittäminen on sallittua joko mukaan tai poislukien mm valtio. Tllisessä tapauksessa niiden rajoitukset otetaan huomioon kuin ne olisi kirjoitettu tmm Lisenssin sekaan.

Free Software Foundation voi julkaista korjattuja tai uusia versioita GPL-lisenssillä ajoa. Niden uusien versioiden henki on yhtenev nykyisen version kanssa, mutta ne saattavat erotua yksityiskohdissa ottaen huomioon uusia ongelmia ja huolenaiheita.

Jokaiselle versiolle annetaan ne muista erottava versionumero. Jos Ohjelmaa kytt tmm Lisenssin tietty versiota tai mit tahansa myhemm versiota, Lisenssin saaja saa valita, kytkit mit tai jotakin Free Software Foundationin julkaisemaa myhemm versiota Lisenssissä. Jos Ohjelma ei mainitse mit versiota tmm Lisenssissä se kytt, on sallittua valita mi tahansa versio, jonka Free Software Foundation on koskaan julkaissut.
Foundation, on kirjoitettava heille; he tekevät joskus poikkeuksia. Free Software Foundationin ptsten ohjenuorana on kaksi pmr; silytt kaikista heidn vapaista ohjelmista johdettujen ohjelmien vapaa asema ja yleisesti kannustaa ohjelmien jakamiseen ja uudelleen kyttn.

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 46725
Giy Php ny nhm mc ch lm cho s tay, cun sch gio hay ti liu khi ra khu
m bo mi nghi c quyn sao chp v phlh nh li ti liu , c sa i n hay khi ng, mt cch thng mi hay khi ng. Th hai, Giy Php ny bo tnh cho tc gi v nh
xut bn c cch hng cng trng v s c gng ca mnh, cn h khi ng c coi c chu trch nhim v s sa i ca nghi khi.</para></abstract>

Giy php ny l kiu <quote>tc quyn ngc</quote>, c nghi la mi sn phm bt ngun t ti liu ny cng phi l t do v cng ngha. N b tr Giy Php Cng cng GNU (GPL), mt giy php tc quyn ngc c thit k cho phn mm dng t do.</para>

Chng ti thit k Giy php ny dng ng vi s tay hng dn cch s dng phn mm t do, v phn mm t do cn thit ti liu cng t do: chng trnh t do nn c cng cng nhg quyn t do vi phn mm . Tuy nhin Giy php ny khi ng b hn ch trong cc s tay phn mm; n c th c dng vi bt c vn bn no, bt chp ch ; bt chp n l cun ch c in ra hay khi ng. Chng ti ngh Giy php ny
chnh cho ti liu nhm mc ch hng dn hay tham kho.</para>

Phin bn Sa i<quote>ca Ti liu c ngha l bt c vn bn cha Ti liu hay on no ca n, hoc c sao chp ng nguyen vn, hoc vi s sa i v/hay c dch sang ngng ng khi.</quote>

Tit on Ph<quote>Tit on Bt Bin</quote> l ph lc c tn hay tit on trc ca <link linkend="fdl-document">Ti liu</link> m din t ch quan h ca nh xut bn hay tc gi ca Ti liu vi ch chnh ca Ti liu (hoc vi ch lin quan) v khi ng cha g nm trong ch chnh . (Ly th d, nu Ti liu c t on l cun sch gio ton hc, Tit on Ph khi ng th din t g v ton hc.) Quan h ny c th l lin kt lch s vi ch hay vi ch lin quan, hoc l lun im hp php, thng mi, thuc trit hc, thuc o c hay chnh tr v chng.</para>

Tit on Bt Bin<quote>Tit on Bt Bin trong thng bo ni rng</quote> <link linkend="fdl-document">Ti liu</link> c phlh nh di Giy php ny.</para>

On Ba<quote>Ti liu di Giy php ny</quote> l vn bn ngn c lit k l on Ba Trc hay on Ba Sau trong thng bo ni rng <link linkend="fdl-document">Ti liu</link> c phlh nh di Giy php ny.</para>

Bn sao<quote>Tong Sut</quote> ca <link linkend="fdl-document">Ti liu</link> ngha la bn sao cho my c, c i din theo mt nh dng c c t cng b cho mi nghi xem, c ni dung cho nghi dng xem v sa i mt cch
trc tip v r rng bng trnh son tho vn bn ging loi hay (i vi nh c cu trc theo im nh) trnh sn ging loi hay (i vi bc v) trnh huu
chnh bc v c cng b rng ri, m thch hp nhp vo trnh nh dng vn bn hay dch t ng sang nhieu nh dng khe nhu thch hp nhp
Trang Tieu c ngha l, i vi cun sch c in ra, trang tiu chnh n, cng vi trang sau no cn thit hin th r rng nga liu phi xut hin trn trang tiu, ty theo Giy php ny. i vi vn bn theo nh dng khng c trang tiu nh th. Trang Tieu ngha l vn bn gn v tr hin th r rng nth tiu ca vn bn, nm trc thn vn bn.</sect1>

<sect1 id="fdl-section2" label="2">
title=SAO CHP NG NGUYN VN
<para>Cho php bn sao chp v pht hnh Ti liu trong bt c vt cha no, thng mi hay khng, min l Giy php ny, nhng thng bo tc quyn, v thng bo giy php ni rng Giy php ny p dng cho Ti liu c to li trong mi bn sao, v bn khng thm iu kin khe no vo nhng iu kn ca Giy php ny. Khng cho php bn s dng bin php k thut gy tr nghi cho hay iu khin hot ng c hay sao chp thm na nhng bn sao bn to hay pht hnh. Tuy nhin, cho php bn chp nhn s n b trao cho bn sao. Nu bn pht hnh s bn sao In, bn cng phi tun theo iu kin trong <link> Saol-st-c</link> phn 3.</para>

<sect1 id="fdl-section3" label="3">
title=SAO CHP HNG LOT
<para>Nu bn xut bn s bn sao c in ra ca <link>Ti liu</link> hn 100, v thng bo giy php ca Ti liu cn thit <link>Ti liu</link> on Ba, bn phi vy quanh mi bn sao trong ba hin th r rng tt c cc on Ba ny : on Ba Trc trn ba trc, cn on Ba Sau trn ba sau. C hai ba cng phi hin th r rng bn l nh xut bn nhng bn sao ny. Ba trc phi hin th tiu y c mi t r rng u. Cho php bn thm nga liu na trn ba. Vie sao chp ch thay i ba, min l ba bo tn tiu ca <link>Ti liu</link> v tho nhng iu kin ny, c th c coi l vie sao chp ng nga liu vn bnng cch khc.</para>

<para>Nu nhng vn bn bt buc phi nm trn ba no l qu di hin th r rng, bn nn hin th nhng on th nh c lit k (nhiu nh th c r) trn ba , v hin th vn bn cn li trn cc trang tip cn.</para>

<para>Nu bn xut bn hay pht hnh s bn sao <link>Ti liu</link> hn 100, bn phi hoct pht hnh mt bn sao <link>Ti liu</link> trong Sur <link>Ti liu</link> cho my c c cng vi mi bn sao c, hoc pht biu trong hay vi mi bn sao c mt a im trn mng my thn cho mi ngi truy cp m cha mt bn sao Trong Sur hon thnh ca Ti liu, khng c nga liu c thm, vo mi ngi s dng mng chung c th truy cp ti xung v danh v min ph bng gia theo my mng tiu hch cng cng. Nu bn s dng ty chn th hai, bn cn phi theo mt s bc hi cn thn, khi bn bt u pht hnh hng lot bn sao c, chc chn l bn sao Trong Sur ny s vn cn cho ngi dng truy cp a im ghi r trong t nh thm sao ln cng bn pht hnh mt bn sao c (mt cch trc tip hay qua i l hay hng bn) ca bn sa i cho cng cng.</para>

<para>Yu cu, nhng khng cn thit bn lin lc vi nhng te gi ca <link>Ti liu</link> kh trc khi pht hnh hng lot bn sao, cho h c dp cung cp phin bn Ti liu c cp nh.</para>
Cho php bn sao chp v phn hnh &lt;link linkend="fdl-modified"&gt;Phin bn Sa i&lt;/link&gt; ca &lt;link linkend="fdl-document"&gt;Ti liu&lt;/link&gt; vi iu kin ca phn &lt;link linkend="fdl-section2"&gt;2&lt;/link&gt; v &lt;link linkend="fdl-section3"&gt;3&lt;/link&gt; trn, min l bn phn hnh Phin bn Sa i di chnh xc Giy Php ny, cn Phin bn Sa i lm nhim v ca Ti liu th cp quy npht nhn v sa i Phin bn Sa i cho ai c bn sao ca n. Hn na, bn phi lm nhng vic ny trong Phin bn Sa i:&lt;/para&gt;

&lt;itemizedlist mark="upper-alpha"&gt;
&lt;listitem&gt;
&lt;para&gt;Dng trn &lt;link linkend="fdl-title-page"&gt;Trang Tiu &lt;/link&gt; (cng trn nhng ba, nu c) mt tiu nhé bit vi tiu ca &lt;link linkend="fdl-document"&gt;Ti liu&lt;/link&gt; v vi tiu ca phin bn no trc (cc phin bn trc, nu c, nn c lit k trong phn Lch s ca Ti liu). Nh xut bn gc cho php th bn c quy n s dng mt tiu vi phin bn trc.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Lit k trn &lt;link linkend="fdl-title-page"&gt;Trang Tiu &lt;/link&gt;, lm tc gi, mt hay nhu ngi hay thc th chu trch nhim to s sa i trong &lt;link linkend="fdl-modified"&gt;Phin bn Sa i&lt;/link&gt;, cng vi t nht nm tc gi chnh ca &lt;link linkend="fdl-document"&gt;Ti liu&lt;/link&gt; (tt c cc tc gi chnh, nu s t hn nm).&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Ghi r trn &lt;link linkend="fdl-title-page"&gt;Trang Tiu &lt;/link&gt; tn ca nh xut bn &lt;link linkend="fdl-modified"&gt;Phin bn Sa i&lt;/link&gt;, lm nh xut bn.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Bo tn tt c cc thng bo tc quy n ca &lt;link linkend="fdl-document"&gt;Ti Liu&lt;/link&gt;.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Thm mt thng bo tc quy n theh hp vi s sa i ca bn, tip cn vi cc thng bo tc quy n khc.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Chn vo, ng sau nhng thng bo tc quy n, mt thng bo giy php cho php mi ngi s dng &lt;link linkend="fdl-modified"&gt;Phin bn Sa i&lt;/link&gt; vi iu kin ca Giy php ny, dng mu c hin th trong Ph lc bn di.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Bo tn trong thng bo giy php nhng danh sch y cc &lt;link linkend="fdl-invariant"&gt; Tit on Bt Bin&lt;/link&gt; v cc &lt;link linkend="fdl-cover-texts"&gt;on Ba&lt;/link&gt; cn thit a ra trong thng bo giy php ca &lt;link linkend="fdl-document"&gt;Ti liu&lt;/link&gt;.&lt;/para&gt;
&lt;/listitem&gt;

&lt;listitem&gt;
&lt;para&gt;Gm c mt bn sao cha thay i ca Giy php ny.&lt;/para&gt;
<listitem>
	<brinka><para>Bo tn phn tn <quote>Lch s</quote>, cng vi tiu ca n, v thm vo n mt mc pht biu t nht tiu, nm xut bn, cc te gi mi v nh xut bn ca <link linkend="fdl-modified">Phin bn Sa i</link> nh a ra trn <link linkend="fdl-title-page">Trang Tiu</link>. Khng c phn tn <quote>Lch S</quote> trong <link linkend="fdl-document">Ti liu</link> th bn to mt iu pht biu t nht tiu, nm xut bn, cc te gi v nh xut bn ca <link linkend="fdl-document">Ti liu</link> nh a ra trn <link linkend="fdl-title-page">Trang Tiu</link> ca n, ri thm mt mc din t <link linkend="fdl-modified">Phin bn Sa i</link> nh c pht biu trong cu trc.</para></brinka></listitem>

<brinka><listitem>
	<brinka><para>Bo tn a im trn mng, nu c, a ra trong <link linkend="fdl-document">Ti liu</link> cho mi ngi truy cp mt bn sao <link linkend="fdl-transparent">Trong Sut</link> ca <link linkend="fdl-document">Ti liu</link>, cng vy a im mng a ra trong <link linkend="fdl-document">Ti liu</link> cho cc phin bn trc vo n da. Cho php bn chin nhng iu ny vo phn <quote>Lch s</quote>. Cho php bn b st mt a im mng i vi vn bn xut bn t nht bn nm trc <link linkend="fdl-document">Ti liu</link> chnh n, hoc nu nh xut bn gc ca phin bn n cp c cho php.</para></brinka></listitem>

<brinka><listitem>
	<brinka><para>Bo tn tt c cc <link linkend="fdl-invariant">Tit on Bt Bin</link> ca <link linkend="fdl-document">Ti liu</link>, c vn bn ln tiu u khng thay i. S hiu tit on hay trng ng khi th c xem l phn ca tiu tit on.</para></brinka></listitem>

<brinka><listitem>
	<brinka><para>Xo b tit on no c tiu <quote>S Xc nhn</quote>. Khng cho php <link linkend="fdl-modified">Phin bn Sa i</link> cha tit on nh vy.</para></brinka></listitem>

<brinka><listitem>
	<brinka><para>Nu <link linkend="fdl-modified">Phin bn Sa i</link> gm c tit on trc hay ph le tho tiu chun ca <link linkend="fdl-secondary">Tit on Ph</link> v khng cha nguy liu c sao chp t <link linkend="fdl-document">Ti liu</link>, cho php bn ty chn xc nh mt s hay ti c nhng tit on ny l bt bin. lm nh th, hy thm cc tiu ca chng vo danh sch cc <link linkend="fdl-invariant">Tit on Bt Bin</link> trong thng bo giy php ca <link linkend="fdl-modified">Phin bn Sa i</link>. Nhng tiu ny phi ring bit vi bt k tiu tit on khc.</para></brinka></listitem>

<brinka><listitem>
	<brinka><para>Cho php bn thm mt tit on c tiu <quote>S Xc nhn</quote>, min l n cha ch s xc nhn <link linkend="fdl-modified">Phin bn Sa i</link> ca cc bn khc nhau ly th d, bi ph bn nh ngang hng hay li pht biu rng vn bn c tn thnh bi</para></brinka></listitem>
mt t ch có nhóm xc nh c en c ca mt tiu chun.</para>

<para>Cho php bn thm mt on cha n nm t lm <link linkend="fdl-cover-texts">on Ba Trc</link> v mt on cha n 25 t lm <link linkend="fdl-cover-texts">on Ba Sau</link>, vo kt the ca danh sch cc <link linkend="fdl-cover-texts">on Bas</link> trong <link linkend="fdl-modified">Phin bn Sa i</link>. Cho php mi the th thm (hay thu xp thm) ch mt <link linkend="fdl-cover-texts">on Ba Trc</link> v ch mt <link linkend="fdl-cover-texts">on Ba Sau</link>. Nu <link linkend="fdl-document">Ti liu</link> cha mt on ba trn ba , c thm trc bi bn (hoc c thu xp thm bi cng mt thc th bn i din), khong cho php bn thm on na; nhng bn c th thay th iu c nu nh xut bn thm n cho php dt khot.</para>

<para>(Nhng) tc gi v nh xut bn ca <link linkend="fdl-document">Tiu liu</link> khong phi bng Giy Pphi ny cho php s dung tn ca h trong tnh cng khai hoc xc nhn (trc tip hay c ng ) bt c <link linkend="fdl-modified">Phin bn Sa i</link> no.</para>

<sect1 id="fdl-section5" label="5">
<title>KT HP TI LIU</title>
<para>Cho php bn kt hp <link linkend="fdl-document">Ti liu</link>, vi cc ti liu khc c pht nhn di Giy php ny, vi iu kin c xc nh trong <link linkend="fdl-section4">phn 4</link> trn v phin bn sa i, min l bn gm trong s kt hp tt c cc <link linkend="fdl-invariant">Tit on Bt Bin</link> ca tt c cc ti liu gc, cha sa i, v lit k tt c chng l <link linkend="fdl-invariant">Tit on Bt Bin</link> ca bn nk kt hp, trong thng bo giy php ca n.</para>

<para>Vn bn kt hp cn phi cha ch mt bn sao ca Giy php ny; cng cho php thay th nhieu <link linkend="fdl-invariant">Tit on Bt Bin</link> ca tt c cc ti liu gc, cha sa i, v lit k tt c chng l, tl on trong danh sch cc <link linkend="fdl-invariant">Tit on Bt Bin</link>, trong thng bo giy php ca vn bn kt hp.</para>

<para>Trong s kt hp, bn phi kt hp bt k tit on c tiu <quote>Lch s</quote> ca nhng ti liu gc khc nhau, th to cng mt tit on c tiu <quote>Lch s</quote>; cng vy kt hp bt k tit on c tiu <quote>Lb Nh</quote>, v bt k tit on c tiu <quote>Li Tng</quote>. Bn phi xo b mi tit on c tiu <quote>S Xc Nh</quote>,</para>

<sect1 id="fdl-section6" label="6">
<title>TP HP TI LIU</title>
<para>Cho php bn to mt tp hp cha <link linkend="fdl-document">Ti liu</link> v cc ti liu khc nhau cng c pht nhn di Giy php ny, v thay th nhng bn sao ring ca Giy php ny trong nhng ti liu khc nhau bng cng mt bn sao c bao gm trong tp hp , min l bn theo nhng quy te ca Giy php ny mi phng din khc i vi vic sao cph ng nguyn vn mi ti liu.</para>

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<sect1>

<sect1 id="fdl-section7" label="7"/>
<sect1 id="fdl-section8" label="8">
<title>THNG DCH</title>

<para>S thng dch c coi l iu s sa i, v vy cho php bn pnht hnh cc bn dch ca <link linkend="fdl-document">Ti liu</link> vi iu kin ca <link linkend="fdl-section4">phn 4</link> trn. Kh nng thay th <link linkend="fdl-invariant">Tit on Bt Bin</link> bng bn dch cn thit s cho php c bit ca mi ngi gi tc quyn ca n, nhng m cho php bn gm cc bn dch ca mt s hay tt c cc <link linkend="fdl-invariant">Tit on Bt Bin</link>, thm vo nhng phin bn gc ca mi <link linkend="fdl-invariant">Tit on Bt Bin</link>. Cho php bn gm mt bn dch ca Giy php ny, min l bn cng gm phin bn ting Anh gc ca Giy php ny. Trong trng hp xung t gia bn dch v phin bn ting Anh gc ca Giy php ny, phin bn gc c quyn cao bn. </para>

</sect1>

<sect1 id="fdl-section9" label="9">
<title>KT THC</title>

<para>Khng cho php bn sao chp, sa i, cp ph hay pnht hnh <link linkend="fdl-document">Ti liu</link>, tr phi vi nhng iu kin dt khoi ca Giy php ny. Bt c s c gng khc no sao chp, sa i, cp ph hay pnht hnh Ti liu b bi b, v s kt thc t ng cc quyn ca bn di Giy php ny. Tuy nhin, nhng ngi nhn bn sao, hay quyn, t bn di Giy php ny s khng c giy php b kt thc min l h tip tc tun theo hon ton. </para>

</sect1>

<sect1 id="fdl-section10" label="10">
<title>BN SA I TNG LAI CA GIY PHP NY</title>


<para>Mi phin bn ca Giy php nhn mt s hiu phin bn ring. Nu <link linkend="fdl-document">Ti liu</link> xc nh rng mt phin bn c s hiu ring ca Giy php ny <quote>hay bt c phin bn sau no</quote> p dng cho n, bn c ty chn tun theo iu kin hoc ca phin bn xc nh, hoc ca bt c phin bn sau no c cng b (khng phi l nhp) bi T chc Phn mm T do. Nu <link linkend="fdl-document">Ti liu</link> khng xc nh mt s hiu phin bn ring ca Giy php ny, cho php bn chn bt c phin bn no c cng b (khng phi l nhp) bi T chc Phn mm T do. </para>

</sect1>
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</para>

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</para>

<para>
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
</para>

<para>
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</para>

<para>
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</para>

<para>
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The Library, below, refers to any such software library or work which has been distributed under these terms. A work based on the Library means either the Library or any derivative work under
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included without limitation in the term <quote>modification</quote>.)
</para>

<para>
<quote>Source code</quote> for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.
</para>

<para>
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running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.
</para>

</sect2>

<sect2 id="sect1" label="1">
<title>Seccion 1</title>
<para>
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appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any
warranty; and distribute a copy of this License along with the
Library.
</para>

<para>
You may charge a fee for the physical act of transferring a copy,
and you may at your option offer warranty protection in exchange for a
fee.
</para>
</sect2>

<sect2 id="sect2" label="2">
<title>Seccion 2</title>
<para>
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of <link linkend="sect1">Section 1</link> above, provided that you also meet all of these conditions:

<orderedlist numeration="loweralpha">
 <listitem>
  <para>
   The modified work must itself be a software library.
  </para>
 </listitem>
 <listitem>
  <para>
   You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
  </para>
 </listitem>
 <listitem>
  <para>
   You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
  </para>
 </listitem>
 <listitem>
  <para>
   If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
  </para>
 </listitem>
</orderedlist>

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in...
themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

<para>
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under <link linkend="sect6">Section 6</link>.)
</para>

<para>
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of <link linkend="sect6">Section 6</link>. Any executables containing that work also fall under <link linkend="sect6">Section 6</link>, whether or not they are linked directly with the Library itself.
</para>

<sect2 id="sect6" label="6">
<title>Seccion 6</title>

<para>
As an exception to the Sections above, you may also combine or link a <quote>work that uses the Library</quote> with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
</para>

<para>
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

<orderedlist numeration="loweralpha">
    <listitem>
        <para id="sect6a">
            Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections <link linkend="sect1">1</link> and <link linkend="sect2">2</link> above); and, if the work is an executable linked with the Library, with the complete machine-readable <quote>work that uses the Library</quote>, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
        </para>
    </listitem>
    <listitem>
        <para>
            Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
        </para>
    </listitem>
    <listitem>
        <para>
            Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing this distribution.
        </para>
    </listitem>
    <listitem>
        <para>
            If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
        </para>
    </listitem>
</orderedlist>
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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</para>
</sect2>

<sect2 id="sect15" label="15">
<title>NO WARRANTY</title>
<subtitle>Seccion 15</subtitle>

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</para>
</sect2>

<sect2 id="sect16" label="16">
<title>Seccion 16</title>

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DAMAGES.
</para>
</sect2>
</sect1>
</article>

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<sect1 id="fdl-section2" label="2">COPIA LITERAL</sect1>

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<sect1 id="fdl-section8" label="8">
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Si su documento contiene ejemplos de código de programa no triviales, recomendamos liberar estos ejemplos en paralelo bajo la licencia de software libre que usted elija, como la Licencia Pública General de GNU (GNU General Public License), para permitir su uso en software libre.
<title>Predgovor</title>

<p>Licenne pogodbe veine programske opreme so zasnovane tako, da vam prepreujejo njegovo svobodno razirjanje in spreminjanje. Za razliko od teh pa vam Splona dovoljenja GNU (angl. GNU General Public Licenses, GPL) jamijo svobodo pri razirjanju in spreminjanju proste programske opreme ter s tem zagotovljajo, da ostane ta prosta za vse njene uporabnike.</p>

<p>Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona dovoljenja GNU zagotavljata pravico razirjanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanja njenih delov v novi prosti programski opremi; in seznanjanie z vsemi temi pravicami.</p>

<p>To dovoljenje, Manj splono dovoljenja, se nanana na nekatere posebej zasnovane programske pakete - navadno knjinice - ustanove Free Software Foundation in na vse druge programe, katerih avtorji so se zavezali k njeni uporabi. Tudi vi ga lahko uporabljate, a najprej vam priporoamo, da glede na razlago spodaj pazljivo razmislite, ali je v doloenem primeru bolje uporabljati to dovoljenje ali morda navadno Splono dovoljenje.</p>

<p>Zaradi zavarovanja vajh pravic je uvedena omejitev, ki prepoveduje vsakomur, da bi vam te pravice kratil ali od vas zahteval predajo teh pravic. Te omejitve se prevedejo v doloeno vao odgovornost, e razirjate kopije knjinice ali jo spreminjate.</p>

<p>Na primer, e razirjate kopije neke knjinice, bodisi zastonj ali za plailo, morate dati prejemnikom vse pravice, k jih imate sami. Prepriati se morate, da bodo tudi oni prejeli ali imeli dostop do izvorne kode. e s knjinico povezujete drugo kodo, morate prejemnikom ponuditi popolne objektne datoteke, tako da jih lahko potem, ko knjinico spremenijo, vnovi poveejo s knjinico in prevedejo. In morate jim pokazati te pogoje (pravzaprav izvrnik, opomba prevajalca), da bodo poznali svoje pravice.</p>

<p>Vae pravice itimo v dveh potezah: (1) avtorsko zaitimo knjinico in (2) vam ponujamo to dovoljenje, ki vam daje pravno dovoljenje za razmnoevanje, razirjanje in ali spreminjanje knjinice.</p>

<p>Prav tako, za zaito vsakega avtorja in zaradi nae zaite elimo zagotoviti, da vsakdo razume, da za to prosto programsko opremo ni nobenega jamstva. e je programsko opremo spremenil nekdo drug in ga posrebold naprej, elimo, da njegovi prejemniki vedo, da to, kar imajo, ni izvrnik, zato da se problemi, ki jih povzroijo drugi, ne bodo odraali na ugledu izvornega avtorja. Zaradi zaite vsakega razirjevalca elimo zagotoviti, da vsakdo razume, da za to prosto knjinico ni nikakrneg jamstva. e je knjinico spremenil nekdo drug in jo posrebold naprej, elimo, da njeni prejemniki vedo, da to, kar imajo, ni izvrnik, da problemi, ki jih povzroijo drugi, ne bodo kvarili ugleda izvornega avtorja.</p>

<p>Konno, vsak prosti program nenehno ogroajo programski patenti. elimo se izogniti nevarnosti, da bi podjetja uinkovito omejevala uporabnike prostega programa s pridobivanjem omejuoih licenc od lastnikov patentov. Za prepreitev tega jasno zahtevamo, da mora biti vsak patent za katerokoli izpeljano razliico knjinice licenciran tako, da je popolnoma konsistenten s popolno svobodo rabe, kot jo doola to dovoljenje.</p>
Veino programja GNU, vkljuno z nekaterimi knjicami, pokriva navadno Splono dovoljenje GNU. To dovoljenje, Manj splono dovoljenje GNU, se nanaa na doloene posebne knjnice, in se precej razlikuje od navadnega Splonega dovoljenja. To dovoljenje uporabljamo za tiste knjnice, za katere elimo omogoiti tudi povezovanje v neprote programe.

Ko se program povee s knjicico, najsibo statino ali pa s pomojo deljene knjnice, je kombinacija obojega skupaj, pravno gledano, zdrueno delo, izpeljanka izvirne knjnice. Navadno Splono dovoljenje torej dovoljuje takno povezovanje le, e celotna kombinacija zadoa prav tam doloenim kriterijem svobode. Manj splono dovoljenje dovoljuje bolj ohlapne pogoje za povezovanje druge kode s knjincijo.

Tem dovoljenju pravimo "Manj" splono dovoljenje, saj manj zavaruje svobodo uporabnika kot pa navadno Splono dovoljenje. Drugim razvijalcem prostega programja tudi ponuja manj prednosti pred konkurenznimi neprostenimi programi. Te pomanjkljivosti so razlog, da smo za tevilne knjince uporabili navadno Splono dovoljenje. Vendar Manj splono dovoljenje v doloenih pogojih pomeni prednost.

Denimo, da v redkih primerih obstaja posebna potreba spodbuditi kar najiro rabo doloene knjince, da bi ta postala de-facto standard. Da lahko to doseemo, mora biti neprostim programom dovoljeno uporabljati to knjincico. Pogosteje se zgodi, da prosta knjincica opravi enako delo kot iroko uporabljane neprote knjince. V tem primeru pridobimo le malo, e omejimo rabo proste knjince le na prosto programje, zato raje uporabimo Manj splono dovoljenje.

V drugih primerih dovoljenje rabe doloene knjince v neprostih programih omogoje vejemu tevilu ljudi, da uporabljajo veji obseg prostega programja. Dovoljenje za uporabo knjince GNU C v neprostih programih je, denimo, omogoilo mnogim ljudem, da so uporabljali popoln operacijski sistem GNU, kot tudi njegovo inaico, operacijski sistem GNU/Linux.

eprav Manj splono dovoljenje manj zaiti uporabnikovo svobodo, pa vendarle zagotavlja, da ima uporabnik programa, ki je povezan s knjinico, proste roke pri poganjanju tega programa s spremenjeno razlico te knjince.

Sledijo natanne doloitve in pogoji za razmnoevanje, razirjanje in spreminjanje. Pozorni bodite na razliko med "delom, ki temelji na knjincici" in "delom, ki uporablja knjincico". Prvo vsebuje kodo, izpeljano iz knjince, medtem, ko mora biti drugo kombinirano s knjincico, da lahko tee.

 Razdelke in pogojte za razmnoevanje, razirjanje in spreminjanje. Pozorni bodite na razliko med "delom, ki temelji na knjincici" in "delom, ki uporablja knjincico". Prvo vsebuje kodo, izpeljano iz knjince, medtem, ko mora biti drugo kombinirano s knjincico, da lahko tee.

Knjinica" pomeni zbirko programskih funkcij in/ali podatkov, pripravljenih tako, da jih je mo prirono povezovati z uporabnimi programi (ki uporabljajo nekatere teh funkcij in podatkov), da s tem

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| Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 | 46782 |
oblikujemo izvedljive datoteke.</para>

<para><quote>Knjinica</quote> v nadaljevanju pomeni vsako takšno programsko knjinico ali delo, ki se razirja pod temi pogoji. <quote>Delo, ki temelji na knjinici</quote> pomeni bodisi knjinico ali pa katerokoli izvedeno delo po zakonu o avtorski in sorodnih pravicah (angl. copyright law): se pravi delo, ki vsebuje knjinico ali njen del, bodisi dobesedno ali s spremembami in/ali prevedeno v drug jezik. (Tukaj in povsod v nadaljevanju je prevod vkljuen brez omejitev v pojem <quote>spremembe</quote>.)</para>

<para><quote>Izvorna koda</quote> pri delih pomeni obliko dela, najprimernejo za izdelavo sprememb. Pri knjinici pomeni izvorna koda vso izvorno kodo za vse module, ki jih vsebuje, poleg tega pa e morebitne datoteke z definicijami vmesnika, povezanega s tem delom, ter skripte za nadzor prevajanja in namestitev knjinice.</para>

<para>Dovoljenje ne pokriva nobenih drugih dejavnosti razen razmnoevanja, razirjanja in spreminjanja; ostale so izven njegovega dosega. Dejanje zagona programa z uporabo knjinice ni omejeno in odvodni zapis programa je zajet le, e njegova vsebina predstavlja delo, ki je izpeljano iz knjinice (ne glede na to, da je bila pri orodju za njegovo pisanje uporabljena knjinica). Ali je to res ali ne, je odvisno od tega, kaj knjinica dela in kaj dela program, ki knjinico uporablja.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>Razdelek 1</title>
<para>Dovoljeno je razmnoevati in razirjati dobesedne izvode izvorne kode programa v enaki obliki, kot jo dobite, preko kateregakoli nosilca, e je le na vsakem izvodu razlono in primerno objavljeno obvestilo o pravicah razirjanja in zanikanje jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjen; in da prejmejo vsemi drugi prejemniki programa poleg programa e izvod tega dovoljenja.Razmnoujete in razirjate lahko dobesedne izvode izvorne kode knjinice v enaki obliki, kot jo dobite, preko kateregakoli medija, e le na vsakem izvodu razlono in primerno objavite obvestilo o pravicah razirjanja in zanikanje jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjen; in da prejmejo vsemi drugi prejemniki programa poleg programa e izvod tega dovoljenja.</para>

<para>Za fiziho dejanje prenosa kopije lahko zaraunavate in po vai presoji lahko ponudite garancijsko zaito v zameno za plaito.</para>

</sect2>

<sect2 id="sect2" label="2">
<title>Razdelek 2</title>
<para>Dovoljeno je spreminjati svoj izvod ali izvode knjinice ali kateregakoli njenega dela, in tako narediti delo, ki temelji na knjinici, ter razmnoevati in razirjati takne spremembe ali dela pod pogoji zgornjega <link linkend="sect1">razdelka 1</link>, e je zadoeno tudi vsem naslednjim pogojem: <orderedlist numeration="loweralpha">
<li>Spremenjeno delo mora biti programska knjinica.</li>
<li>Zagotoviti je treba, da spremnjene datoteke nosijo vidna obvestila o tem, da so spremenjena, in datum vsake spremembe.</li>
</orderedlist>
Zagotovite morate, da je celotno delo brezplano licencirano tretjim osebam pod pogoji te licence.

e se funkcionalnost v spremenjeni knjizici slike na funkcijo ali tabelo podatkov, ki jih priskrbi uporabni program, ki to funkcionalnost uporablja, na drug nacin kot argument ob klicu funkcionalnosti, morate v dobri veri poskrbeti, da tudi v primeru, ko program ne ponuja take funkcije ali tabele, funkcionalnost e vedno deluje, in izvaja katerikoli del svojega namena, ki e ostaja smiseln.

(Funkcija, ki v neki knjizici skrbi za izraun kvadratnih korenov, ima namen, ki je popolnoma dobro definiran in neodvisen od programa. Podrazdelek 2.d. torej zahteva, da katerakoli funkcija ali tabela, ki jo glavni program ponuja tej funkciji, ni obvezna za pravilno delovanje funkcije za izrauna kvadratnih korenov.)

Te zahteve se nanaajo na spremenjeno delo kot celoto. e razdelki tega dela, ki jih je mogoce prepoznati, niso izpeljeni iz knjizice in jih je mogoce same po sebi utemeljeno obravnavati kot neodvisna in loena dela, potem to dovoljenje in njegova dovoljenja za te razdelke ne velja, e jih razirjate kot loena dela. A e razirjate iste razdelke kot dele celote, ki je delo, ki temelji na knjizici, mora biti razirjanje celote izvedeno pod pogoji tega dovoljenja, katerega dovoljenja uporaba za druge uporabnike dovoljenja se razirijo na vso celoto, in torej na vsak njen del, ne glede na to, kdo ga je napisal.

Namen tega razdelka torej ni, da bi zanikal ali spodbijal vae pravice do dela, ki ste ga v celoti napisali sami; namesto tega je namen razdelka raziriti pravico nadzora nad razirjanjem izpeljenih ali zdruenih del, ki temeljijo na knjizici.

Poleg tega zgolj uvrnanje drugega dela, ki ne temelji na knjizici, poleg knjizice (ali poleg dela, ki temelji na knjizici), na enoti nosilca ali mediju za razirjanje, se dovoljenje na to drugo delo ne nanaa.

Po elji lahko uporabite namesto tega dovoljenja za dani izvod knjizine tudi pogoje navadneg Sploega dovoljenja GNU. e elite to storiti, morate spremeniti vsa sklicevanja na to dovoljenje tako, da se, namesto na to dovoljenje, sklicujejo na navadno Splo dovoljenje GNU (angl. GNU General Public License) razliice 2. (e obstaja razliica navadnega Sploega dovoljenja GNU tevilke, veje od 2, potem lahko, e tako elite, dolite to tevilko razliice.) V teh obvestilih ne spreminjajte niesar drugega.

Ko se enkrat zgodapi osipa sprememba za dani izvod, je za ta izvod to nepovratno, torej Splo dovoljenje GNU velja tudi za vse nadaljnje izvode in izpeljana dela, ki izvijajo iz tega izvoda.

Ta monost je uporabna, e elite prepiati del kode knjizine v program, ki ni knjizina.
Knjinico (ali delo, ki temelji na njej, pod doloili) je dovoljeno razmnoevati in razirjati v objektni kodi ali izvedljivi obliki pod pogoji zgornjih razdelkov 1 in 2, e jo pospremite s popolno ustrezno strojno berljivo izvorno kodo, ki mora biti razirjana pod pogoji zgornjih razdelkov. Razirjanje objektne kode omogoa s ponujanjem dostopa do izvoda z doloenega mesta, potem pogoju za razirjanje izvorne kode zadoa tudi omogojenje enakega dostopa do izvoda izvorne kode, eprav tretje osebe niso dolne razmnoevati izvorne kode poleg objektne kode.

Program, ki ne vsebuje izpeljanke nobenega dela knjinice, a je zasnovan tako, da deluje s to knjinico tako, da je z njo preveden ali povezan, se imenuje delo, ki uporablja knjinico. Tako delo samo po sebi ni iz knjinice izpeljano delo, in torej ni predmet te licence.

Vendar povezovanje dela, ki uporablja knjinico s knjinico naredi izvedljivo datoteko, ki je izpeljanka te knjinice (ker vsebuje dele knjinice), in ne delo, ki uporablja knjinico. Izvedljiva datoteka je torej pokrita s to licenco. Pogoje razirjanja taknih programov doloa razdelek 6.

Takna objektna datoteka uporablja le numerine parametre, podatkovne strukture in naine dostopa, in male makroukaze in male vkljuene funkcije (dolge deset vrstic ali manj), potem uporaba objektne datoteke ni omejena, ne glede na to, da je pravno gledano to izpeljano delo. (Izvedljive datoteke, ki vsebujejo objektno kodo in dele knjinice, eveda so pod <link linkend="sect6">razdelek 6</link>.)

je sicer delo izpeljano iz knjinice, lahko razirjate izvorno kodo dela pod pogoji razdelka 6. Katerekoli izvedljive datoteke, ki tudi vsebujejo delo, sodijo pod razdelek 6, ne glede na to, ali so neposredno povezane s samo knjinico ali ne.

Kot izjemo glede na zgornje razdelke lahko tudi kombinirate ali povezuje te delo, ki uporablja knjinico s knjinico, ki izdela delo, ki vsebuje dele knjinice, in razirjate to delo pod pogoji po vi izbiri, e ti pogoji dovoljujejo spreminjanje dela za uporabnikovo lastno rabo in obratni ineniring za razhroevanje taknih sprememb.
Poleg vsakega izvoda dela morate dodati jasno obvestilo, da delo uporablja knjino in da rabo knjine doloa ta licenca. Oddati morate tudi izvod te licence. e delo med izvajanjem izpisuje pravice razirjanja, morate med njimi vkljuti tudi sporoilo o pravicah razirjanja za knjnico, kot tudi sklic, ki usmerja uporabnika na izvod te licence. Narediti morate tudi eno od teh stvari: <orderedlist numeration="loweralpha">
  <listitem>
    <para id="sect6a">Opremite delo s popolno ustrezno strojno berljivo izvorno kodo za knjino, vkljuno z vsemi spremenbami v tem delu (ki mora biti razirjano pod pogoji zgornjih razdelkov in in ali izvorno kodo, tako da lahko uporabnik spremeni knjino in potem vnovi pove program, da izdela spremenjeno izvedljivo datoteko, ki vsebuje spremenjeno knjino. (Razume se, da uporabnik, ki spremeni vsebino definicijskih datotek v knjini, morda ne bo mogel vnovi prevesti programa, da bi uporabil spremenjene definicije.)</para>
  </listitem>
  <listitem>
    <para>Za povezovanje s knjino uporabite primeren mehanizem deljenih knjinc. Primeren mehanizem (1) ob teku uporablja izvod programa, ki e obstaja v uporabnikovem raunalnikem sistemu, namesto, da bi prepisal knjinine funkcije v samo izvedljivo datoteko, in (2) pravilno deluje s spremenjeno razliico knjince, e jo uporabnik namesti, e je le vmesnik spremenjene razliice združljiv z razliico, za katero je bilo delo izdelano.</para>
  </listitem>
  <listitem>
    <para>Opremite delo s pisno ponudbo, veljavno vsaj tri leta, ki ponuja istemu uporabniku gradiva, doloena v zgornjem podrazdelku 6a, proti plailu zneska, ki ne presega dejanskih strokov taknega razirjanja.</para>
  </listitem>
  <listitem>
    <para>e se razirjanje dela izvede s ponujenim dostopom do izvoda z doloenega mesta, potem ponujanje ekvivalentnega dostopa za razmnoevanje zgoraj navedenih gradiv z istega mesta teje kot razirjanje izvorne kode.</para>
  </listitem>
  <listitem>
    <para>Preverite, da je uporabnik e prejel izvod teh gradiv ali da ste temu uporabniku izvod e poslali.</para>
  </listitem>
</orderedlist>

Pri izvedljivem delu mora zahtevana oblika dela, ki uporablja knjino vkljujevati vse podatke in pomone programe, potrebne za ponovno izdelavo izvedljive datoteke iz nje. Vendar - kot posebna izjema - ni nujno, da razirjano gradivo vkljuje vse, kar se navadno razirja (v izvorni ali strojni obliki) z vejimi komponentami (prevajalnik, jedro, itn.) operacijskega sistema, na katerem tee izvedljiva datoteka, razen e ta komponenta spremi izvedljivo datoteko.

Lahko se zgodi, da te zahteve nasprotujejo licennim omejitvam drugih lastnikih knjinc, ki navadno ne spremljajo operacijskega sistema. Takno nasprotovanje pomeni, da jih ne morete uporabljati hkrati s knjino v izvedljivi datoteki, ki jo boste razirjali.
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Ni vam treba sprejeti pogojev dovoljenja, saj ga niste podpisali. Vendar vam brez slednjega ni ne dovoljuje spreminjanja ali razirjanja knjinice ali iz nje izpeljanih del. e ne sprejmete tega dovoljenja, so ta dejanja nezakonita. Torej, s spremembo ali razirjanjem knjinice (ali kateregakoli dela, ki temelji na knjinici) pokaete svoje strinjanje s tem dovoljenjem in z vsemi njegovimi doloili in pogoji za razmnoevanje, razirjanje ali spreminjanje knjinice ali del, ki temeljijo na njej.

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<para>e se za katerikoli del tega razdelka ugotovi, da je neveljaven ali da ga ni mogoe izvajati pod nobenim doloenih pogojem, je miljeno, da velja usmeritev tega razdelka (angl. balance of the section) in razdelek kot celota velja v drugih primerih.</para>

<para>Namen tega razdelka ni, da bi vas napeljeval h kritvi patentov ali drugih trditev lastnita pravic ali izpodbijal veljavnost katerihkoli taknih trditev; edini namen tega razdelka je itenje integritete sistema razirjanja proste programske opreme, ki je izveden s prakso javnih dovoljenj. Mnogi ljudje so radodarno prispevali k irokemu naboru programske opreme, razirjane preko tega sistema, v upanju na njegovo dosledno izvajanje; od avtorja/dajalca je odvisno, e je pripravljen razirjati programje skozi katerikoli drug sistem, in izdajatelj dovoljenja ne more vsiljevati te izbire.</para>

<para>Ta razdelek namerava temeljito pojasniti, kaj so predvidene posledice preostalega besedila dovoljenja.</para>

</sect2>

<sect2 id="sect12" label="12">
<title>Razdelek 12</title>

<para>e sta razirjanje in/ali uporaba knjigice v doloenih dravah omejena, bodisi zaradi patentov ali avtorsko zaitenih vmesnikov, lahko izvorni lastnik ali lastnica avtorskih pravic, ki postavlja knjigico pod to dovoljenje, dod izrecno zemljepisno omejitev razirjanja, ki izkljuuje te drave, tako da je razirjanje dovoljeno le v in med dravami, ki niso na tak nain izkljuene. V takem primeru to dovoljenje vkljuuje omejitve, kot do zapisane v besedilu tega dovoljenja.</para>

</sect2>

<sect2 id="sect13" label="13">
<title>Razdelek 13</title>

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<para>Vsaki razlici je doloena razloevalna tevilka razlice. e knjigica doloa tevilko razlice tega dovoljenja, ki se nanaa nanjo in <quote>na katero koli poznejo razliico</quote>, imate izbizo upotevanja pogojev in doloi bodisi te razliice ali poljubne kasneje razliice, ki jo je izdala ustanova Free Software Foundation. e knjigica ne doloa tevilke razliice tega dovoljenja, lahko izberete poljubno razliico, ki jo je kdajkoli izdala ustanova Free Software Foundation.</para>

</sect2>
Razdelek 14

e elite vključiti dele knjine v drugo prosto programsko opremo, katere pogoji razirjanja so drugani od teh, piite avtorju in ga prosite za dovoljenje. Za programje, kateregga pravice razirjanja ima Free Software Foundation, piite na Free Software Foundation; vasih pri tem naredimo izjemo. Nao odloitev bosta vodila dva cilja: ohranitev protega statusa vseh izvedenih del iz nae proste programske opreme in spodbujanje razdeljevanja in ponovne uporabe programja na splono.</para>

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GNU -

GNU ( GNU )
<para> GNU ()</para>

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<sect1 id="terms" label="none">
  <title></title>

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  </sect2>

  <sect2 id="sect1" label="1">
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    <para> </para>
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  <para> ()</para>
</sect1>
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    <para>
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      You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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  <listitem>
    <para>
      If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
    </para>
  </listitem>
</orderedlist>

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

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<sect2 id="sect3" label="3">
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<para>GNU . ' 2 GNU ( ). .</para>
<para>, GNU.</para>
<para>, .</para>
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<sect2 id="sect4" label="4">
<title>4</title>
<para>( , <link linkend="sect2">2</link>) ' <link linkend="sect1">1</link> <link linkend="sect2">2</link>, ., <link linkend="sect1">1</link> <link linkend="sect2">2</link>, ., .</para>
<para> ' .</para>
</sect2>
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<para>
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</para>
</listitem>

<listitem>
<para>
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing this distribution.
</para>
</listitem>

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<para>
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components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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<title>7</title>

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<sect2 id="sect11" label="11">
<title>11</title>

<para>- (,,) ,(,,,),,,</para>

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<releaseinfo>Version 2, Juni 1991</releaseinfo>

<abstract role="description"><para>De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public License r tvrtom skapad fr att garantera din frihet att dela med dig av och frndra fri programvara - fr att frskra att programvaran r fri fr alla dess anvndare.</para></abstract>

<othercredit class="translator">
<personname>
De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public License r tvrtom skapad fr att garantera din frihet att dela med dig av och frndra fri programvara -- fr att frskra att programvaran r fri fr alla dess anvndare. Den hr licensen [General Public License] anvnds fr de flesta av Free Software Foundations programvaror och fr alla andra program vars upphovsmn anvnder sig av General Public License. (Viss programvara frn Free Software Foundation anvnder istllet GNU Library General Public License.) Du kan anvnda licensen fr dina program.

Nr vi talar om fri programvara syftar vi p frihet och inte p pris. Vra [General Public License-] licenser r skapade fr att garantera din rtt distribuera och sprida kopior av fri programvara (och ta betalt fr den hr tjnsten om du ndrar), att garantera att du fr kllkoden till programvaran eller kan f den om du s ndrar, att garantera att du kan ndra och modifiera programvaran eller anvnda dess delar i ny fri programvara samt slutligen att garantera att du r medveten om dessa rttigheter.

Fr att skydda dina rttigheter, mste vi begrnsa var och ens mjlighet att hindra dig frn att anvnda dig av dessa rttigheter samt frn att krva att du ger upp dessa rttigheter. Dessa begrnsningar motsvaras av en frpliktelse fr dig om du distribuerar kopior av programvaran eller om du ndrar eller modifierar programvaran.

Om du exempelvis distribuerar kopior av en fri programvara, oavsett om du gr det gratis eller mot en avgift, mste du ge mottagaren alla de rttigheter du sjlv har. Du mste ocks tillse att mottagaren fr kllkoden eller kan f den om mottagaren s ndrar. Du mste ovs dessa licensvillkor fr mottagaren s att mottagaren knner till sina
Vi skyddar dina rättigheter i två steg: 

1. Upphovsrätt till programvaran och 
2. Dessa licensvillkor som ger dig rätt att kopiera, distribuera och eller ndra programvaran.

Fr varje upphovsmans skerhet och vår skerhet vill vi fr tydlighets skull klargöra att det inte lmnas andra garantier för den fr fria programvaran. Om programvaran fndras av någon annan upphovsmannen vill vi klargöra fr mottagaren att det som mottagaren har r inte originalversionen av programvaran och att fndringar av och felaktigheter i programvaran inte skall belasta den ursprunglige upphovsmannen.

Slutligen skall det sgas att all fri programvara stndigt hotas av programvarupatent. Vi vill undvika att en distributör eller vidareutvecklare av fri programvara individuellt skaffar patenti licenser till programvaran och drmed gr programvaran till freml fande. Fr att undvika det har vi gjort det tydligt att samtliga programvarupatent mste registreras fr alla fria användningar eller inte registreras alls.

Hr nedan fljer licensvillkoren fr att kopiera, distribuera och ndra programvaran.

**VILLKOR FR ATT KOPIERA, DISTRIBUTERA OCH ANDRA PROGRAMVARAN**

**Paragraf 0**

Programvaran enligt nedan syftar p varje sådan programvara eller verk baserat p Programvaran (oberoende av att det skapats av att programmet ktrs). Det beror p vad Programvaran gr.

**Paragraf 1**

Du ger kopiera och distribuera exakta kopior av Programvars kllkod ssom du mottog den, i alla medier, frutsatt att Du tydligt och p ett skligt stt p varje exemplar fster en riktig upphovsrtsklausul och garantivsge.
vidhller alla hnisningar till dessa licensvillkor och till alla garantiavsgelser samt att till alla mottagaren av Programvaran ge en kopia av dessa licensvillkor tillsammans med Programvaran.</para>


<sect2 id="sect2" label="2">
<title>Paragraf 2</title>
<para>Du ger ndra ditt exemplar eller andra kopior av Programvaran eller ngon del av Programvaran och drmed skapa ett Verk baserat p Programvaran, samt att kopiera och distribuera sdna frndrade versioner av Programvaran eller verk enligt villkoren i <link linkend="sect1">paragraf 1</link> ovan, frutsatt att du ocks uppfyller fljande villkor: <orderedlist numeration="loweralpha">
  <listitem>
    <para>Du tills att de frndrade filerna har ett tydligt meddelande som berttar att Du ndrat filerna samt vilket datum dessa ndringar gjordes.</para>
  </listitem>
  <listitem>
    <para>Du tills att alla verk som du distribuerar eller offentliggr som till en del eller i sin helhet innehller eller r hrlett frn Programvaran eller en del av Programvaran, licensieras i sin helhet, utan kostnad till tredje man enligt dessa licensvillkor.</para>
  </listitem>
  <listitem>
    <para>Om den frndrade Programvaran i sitt normala utfrande kan utfra interaktiv kommandon nr det krs, mste Du tills att nr Programmet startas skall det skriva ut eller visa, p ett enkelt tillgngligt stt, ett meddelande som tydligt och p ett skligt stt p varje exemplar fster en riktig upphovsrtsklausul och garantiavsgelse (eller i frekommande fall ett meddelande som klargr att du tillhandahller en garanti) samt att mottagaren ger distribuera Programvaran enligt dessa licensvillkor samt bertta hur tredje man kan se dessa licensvillkor. <note>
      <title>Undantag:</title>
      <para>Frn den hr skyldigheten undantas det fall att Programvaran frvisso r interaktiv, men i sitt normala utfrande inte visar ett meddelande av den hr typen. I sdant fall behver Verk baserat Programvaran inte visa ett sdant meddelande som nmns ovan.</para>
    </note></para>
  </listitem>
  <listitem>
    <para>Dessa krav gller det frndrade verket i dess helhet. Om identifierbara delar av verket inte hrrr frn Programvaran och sklagen kan anses vara fristende och sjlvstndiga verk i sig, d skall dessa licensvillkor inte glla i de delarna nr de distribueras som egna verk. Men om samma delar distribueras tillsammans med en helhet som innehller verk som hrrr frn Programvaran, mste distributionen i sin helhet ske enligt dessa licensvillkor. Licensvillkoren skall i sdant fall glla fr andra licenstagare fr hela verket och slunda till alla delar av Programvaran, oavsett vem som r upphovsman till vilka delar av verket.</para>
  </listitem>
  <listitem>
    <para>Den hr paragrafen skall slunda inte tolkas som att ansprk grs p rttigheter eller att ifrgastta Dina rttigheter till programvara som skrivits helt av Dig. Syftet r att tills att rten att kontrollera distributionen av derivativa eller samlingsverk av Programvaran.</para>
  </listitem>
  <listitem>
    <para>Frekomenst av ett annat verk p ett lagringsmedium eller samlingsmedium som innehller Programvaran
eller Verk baserat p Programvaran leder inte till att det andra verket omfattas av dessa licensvillkor. </para>

</sect2>

<sect2 id="sect3" label="3">
<title>Paragraf 3</title>

<para>Du ger kopiera och distribuera Programvaran (eller Verk baserat p Programvaran enligt <link linkend="sect2">paragraf 2</link>) i objektkod eller i krbar form enligt villkoren i <link linkend="sect1">paragraf 1</link> och <link linkend="sect2">2</link> frutsatt att Du ocks gå en av fljande saker: <orderedlist numeration="loweralpha">
<li><para>Bifogar den kompletta kllkoden i maskinlsbar form, som mste distribueras enligt villkoren i <link linkend="sect1">paragraf 1</link> och <link linkend="sect2">2</link> p ett medium som i allmnhet anvnds fr utbyte av programvara, eller</para>
</liitem>
<li><para>Bifogar ett skriftligt erbjudande, med minst tre rs giltighet, att ge tredje man, mot en avgift som hgst uppgi till Din kostnad att utfra fysisk distribution, en fullstndig kopia av kllkoden i maskinlsbar form, distribuerad enligt villkoren i paragraf 1 och 2 p ett medium som i allmnhet anvnds fr utbyte av programvara, eller</para>
</liitem>
<li><para>Bifogar det skriftligt erbjudande Du fick att erhlla kllkoden. (Det hr alternativet kan endast anvndas fr icke-komersiell distribution och endast om Du erhllit ett program i objektkod eller krbar form med ett erbjudande i enlighet med b ovan.)</para>
</liitem>
</orderedlist></para>

Kllkoden fr ett verk avser den form av ett verk som r att fredra fr att gra frndringar av verket. Fr ett krbart verk avser kllkod fr moduler det innehiller, samt alla tillhrrande grnssnittsfiler, definitioner, skripten fr att kontrollera kompilering och installation av den krbara Programvaran. Ett undantag kan dock grs fr sdant som normalt distribueras, antingen i binr form eller som kllkod, med huvudkomponenterna i operativsystemet (kompilator, krna och s vidare) i vilket den krbara programvaran krs, om inte den hr komponenten medfljer den krbara programvaran. </para>

Om distributionen av krbar Programvara eller objektkod grs genom att erbuda tillng till att kopiera frn en bestmd plats, d skall motsvarande tillng till att kopiera kllkoden frn samma plats rknas som distribution av kllkoden, ven om tredje man inte behver kopiera kllkoden tillsammans med objektkoden. </para>

</sect2>

<sect2 id="sect4" label="4">
<title>Paragraf 4</title>

<para>Du ger inte kopiera, ndra, licensiera eller distribuera Programvaran utom p dessa licensvillkor. All vrig kopiering, ndringar, licensiering eller distribution av Programvaran r ogiltig och kommer automatiskt medfria att Du frlorar Dina rttigheter enligt dessa licensvillkor. Tredje man som har mottagit kopior eller rttigheter frn Dig enligt dessa licensvillkor kommer dock inte att frlora sina rttigheter s Inge de fjer licensvillkoren. </para>

</sect2>

Var gng du distribuerar Programvaran (eller Verk baserat p Programvaran), kommer mottagaren per automatik att f en licens frn den frsta licensgivaren att kopiera, distribuera eller ndra Programvaran enligt dessa licensvillkor. Du ger inte lgga mottagaren ngra andra restriktioner n de som fljer av licensvillkoren. Du r inte skyldig att tillse att tredje man fljer licensvillkoren.

Om Du p grund av domstolsdom eller anklagelse om patentintrng eller p grund av annan anledning (ej begrnstat till patentfrgor), Du fr villkor (oavsett om de kommer via domstols dom, avtal eller p annat stt) som strider mot dessa licensvillkor s frntar de inte Dina frpliktelser enligt dessa licensvillkor. Om du inte kan distribuera Programvaran och samtidigt uppfylla licensvillkor och andra skyldigheter, fr du som en konsekvens inte distribuera Programvaran. Om exempelvis ett patent gr att Du inte distribuera Programvaran fritt till alla de som mottager kopior direkt eller indirekt frn Dig, s mste Du helt sluta distribuera Programvaran.

Om delar av den hr paragrafen frklaras ogiltig eller annars inte kan verkstllas skall resten av paragrafen ga fortsatt giltighet och paragrafen i sin helhet ga fortsatt giltighet i andra sammanhang.

Syftet med den hr paragrafen r inte att frm Dig att beg patentintrng eller att beg intrng i andra rttigheter eller att frm Dig att bestrida giltigheten i sdana rttigheter. Den hr paragrafen har ett enda syfte, vilket r att skydda distributionssystemet fr fri programvara vilket grs genom anvndandet av dessa licensvillkor. Mnga har bidragit till det stora utbudet av programvara som distribueras med hjlp av dessa licensvillkor och den fortsatta giltigheten och anvndningen av det hr systemet, men det r upphovsmannen sjlv som mste besluta om han eller hon vill distribuera Programvaran genom det hr systemet eller ett annat och en licenstagare kan inte tvinga en upphovsmann till ett annat beslut.

Den hr paragrafen har till syfte att stlla det utom tvivel vad som anses flja av resten av dessa licensvillkor.
upphovsrättsligt skyddade gränssnitt kan upphovsmannen till Programvaran lagga till en geografisk spridningsklausul, enligt vilken distribution r tillten i län eller frambjudet. Om s r fallet kommer begränsningen att utgöra en fullständig del av licensvillkoren.

\[\text{sect2}\]

\[\text{sect2 id="sect9" label="9"} \]
\[\text{title} \text{Paragraf 9} \text{title}\]

\[\text{para}\] The Free Software Foundation kan offentliggöra ndrade och/eller nya versioner av the General Public License frn tid till annan. Sdana nya versioner kommer i sin helhet att pminna om nuvarande version av the General Public License, men kan vara ndrade i detaljer fr att behandla nya problem eller gra nya vervganden.

\[\text{para}\] Varje version ges ett srskiljande versionsnummer. Om Programvaran specificerar ett versionsnummer av licensvillkoren samt \text{quote}alla senare versioner\text{quote} kan Du vlja mellan att flja dessa licensvillkor eller licensvillkoren i alla senare versioner offentliggjorda av the Free Software Foundation. Om Programvaran inte specificerar ett versionsnummer av licensvillkoren kan Du vlja fritt bland samtliga versioner som ngonsin offentliggjorts av the Free Software Foundation.

\[\text{sect2}\]

\[\text{sect2 id="sect10" label="10"} \]
\[\text{title} \text{Paragraf 10} \text{title}\]

\[\text{para}\] Om du vill anvnda delar av Programvaran i annan fri programvara som distribueras enligt andra licensvillkor, bekrillt stnd frn upphovsmannen. Fr Programvaran var upphovsrätt innehas av Free Software Foundation, skriv till Free Software Foundation, vi gr ibland undantag fr det hr. Vrt beslut grundas p vra tv ml att bibeulla den fria statusen av alla verk som hrleds frn vr Programvara och frmjandet av att dela med sig av och teranvnda programvara i allmnhet.

\[\text{sect2}\]

\[\text{sect2 id="sect11" label="11"} \]
\[\text{title} \text{INGEN GARANTI} \text{title}\]
\[\text{subtitle} \text{Paragraf 11} \text{subtitle}\]

\[\text{para}\] D Denna Programvara LICENSIERAS UTAN KOSTNAD GES INGEN GARANTI FR PROGRAMMET, UTOM SDAN GARANTI SOM MSTE GES ENLIGT TILLMPLIG LAG. FRUTOM D DET UTTRYCKS I SKRIFT TILLHANDAHILLER UPPHOVSRTTSSINNEHAVAREN OCH/ELLER ANDRA PARTER PROGRAMMET \text{quote}I BEFINTLIGT SKICK\text{quote} \text{quote}<quote>AS IS</quote>\text{quote}) UTAN GARANTIER AV NGRA SLAG, VARKEN UTTRYCKLIGA ELLER UNDERFRSTDDA, INKLUSIVE, MEN INTE BEGRNSAT TILL, UNDERFRSTDDA GARANTIER VID KP OCH LMIPLIGHET FR ETT SRSKILT NDAML. HELA RISKEN FR KVALITET OCH ANVNDBARHET BRS AV DIG. OM PROGRAMMET SKULLE VISA SIG HA DEFEKTER SKALL DU BRA ALLA KOSTNADER FR FELETS AVHJLPANDE, REPARATIONER ELLER NDVNDIG SERVICE.

\[\text{sect2}\]

\[\text{sect2 id="sect12" label="12"} \]
\[\text{title} \text{Paragraf 12} \text{title}\]

\[\text{para}\] INTE I NGOT FALL, UTOM NR DET GLLER ENLIGT TILLMPLIG LAG ELLER NR DET
VEREKOMMITS SKRIFTLIGEN. SKALL EN UPPHOVSRITSINNEHAVARE ELLER ANNAN PART SOM GER NDRA OCH/ELLER DISTRIBUERA PROGRAMVARAN ENLIGT OVN, VARA SKYLDIG UTGE ERSTTNING FR SKADA DU LIDER, INKLUSIVE ALLMN, DIREKT ELLER INDIREKT SKADA SOM FLJER P GRUND AV ANVNDNING ELLER OMLIGHET ATT ANVNDA PROGRAMVARAN (INKLUSIVE MEN INTE BEGRNSAT TILL FRLUST AV DATA OCH INFORMATION ELLER DATA OCH INFORMATION SOM FRAMSTLLTS FELAKTIGT AV DIG ELLER TREDJE PART ELLER FEL DR PROGRAMMET INTE KUNNAT KRAS SAMTIDIGT MED ANNAN PROGRAMVARA), VEN OM EN SDAN UPPHOVSRTTSINNEHAVAREN ELLER ANNAN PART UPPLYSTS OM MJLIGHETEN TILL SDAN SKADA....
Mi ngử uc quyn sao chp v phn phi Nguyvn vn ti liu giy php ny, nhng khng c php thay i n.</para>

Khi chng ti ni v phn mm t do, chng ti cp n s t do s dng, ch khng phi l gi c. Giy php Cng cng GNU ca chng ti c thit k m bo bn c quyn t do ph pt hhnh bn sao ca phn mm t do (v thu tin dch v ny nu mun), nhn m ngun hoc c kh nng ly n nu bn mun, bn c th thay i phn mm hay s dng bt k on no ca n trong chng trnh t do mi; v gip bn bit r l bn c th lm nhng iu ny.</para>

Chng hn, nu bn ph pt hhnh bn sao ca th vin nh vy, d l cho khng hay thu tin, bn phi trao cho ngi nhn tt c nhng quyn bn c. Bn phi che chn l h cng nhn c hay c th ly m ngun. Nu bn lin kt m ngun khu vi th vin, bn phi cung cp cc tp tin i tng hon thnh cho ngi nhn, h c th lin kt li tp tin nh vy vi th vin ri bin dch li. V bn cng phi cho h bit nhng iu kin ny, h bit nhng quyn ca h.</para>

Chng ti bo v quyn ca bn bng mt phng php hai bc: (1) chng ti bn quyn tc gi ca th vin, v (2) chng ti trao cho bn giy php ny bn c quyn hp php sao chp, ph pt hhnh v/hay sa i th vin.</para>

Hn na, bo v mi ngt hhnh, chng ti mun che chn l mi ngi hiu rng th vin t do ny khng c bo hhnh. Nu th vin b sa i bi ngi khe v c phn ptip, chng ti mun ngi nhn bit rng ci m h c khng phi l bn gc, v vy, bt k li no do ngi khe gy ra s khng lm mang ting n tc gi ge.</para>

Cui cng, chng trnh t do no cng lun b e da bi bng snh ch phn mm. Chng ti mun che chn l cng ty khng th gii
<para>Phn ln phn mm GNU, gm c mt s th vin, c bao qut bi Giy php Cng cng GNU chun. Giy php ny, Giy php Cng cng Ph GNU, p dng cho mt s th vin xe nh: n rt khc vi Giy php Cng cng GNU chun. Chng ti s dng giy php ny cho mt s th vin ring, cho php kh nng lin kt th vin nh vy vo chng trnh khc t do.</para>

Khi chng trnh c lin kt vi th vin, bt cph mt cch tnh hay bng th vin dng chung, s kt hp hai iu ny ni hp php l mt sn phm kt hp, sn phm dn xut th vin gc. Giy php Cng cng GNU chun th cho php kh nng lin kt nh vy ch nu ton b s kt hp tho iu chun quyn t do ca n. Giy php Cng cng Ph GNU cho php iu chun lng lo ln lin kt m ngun khc vi th vin.</para>

Chng ti gi giy php ny Giy php Cng cng &lt;quote&gt;Ph&lt;/quote&gt; v n lm t bo v quyn t do ca ngi dng hn Giy php Cng cng chun. N cng cung cp cho cc nh ppt trin phn mm t do t th li hn chng trnh khc t do cnh trnh. Nhng nhc im ny l l do chng ti s dng Giy php Cng cng chun cho rt nhiu th vin. Tuy nhin, giy php Ph cung cp li ch trong mt s trng hp c bit.</para>

Khi chng trnh vi th vin, bt cph mt cch tnh hay bng th vin dng chung, s kt hp hai iu ny ni hp php l mt sn phm kt hp, sn phm dn xut th vin gc. Giy php Cng cng GNU chun th cho php kh nng lin kt nh vy ch nu ton b s kt hp tho iu chun quyn t do ca n. Giy php Cng cng Ph GNU cho php iu chun lng lo ln lin kt m ngun khc vi th vin.

Chng ti gi giy php ny Giy php Cng cng &lt;quote&gt;Ph&lt;/quote&gt; v n lm t bo v quyn t do ca ngi dng hn Giy php Cng cng chun. N cng cung cp cho cc nh ppt trin phn mm t do t th li hn chng trnh khc t do cnh trnh. Nhng nhc im ny l l do chng ti s dng Giy php Cng cng chun cho rt nhiu th vin. Tuy nhin, giy php Ph cung cp li ch trong mt s trng hp c bit.</para>

Chng hn, rt t ln c nh cu c bit h tr cch s dng rng ri nhc c th mt th vin no , n tr thnh mt iu chun nh th. t mc ch ny, cc chng trnh khc t do cng phi c quyn s dng th vin . Mt trng hp xy ra nhiu ln hn l th vin t do lm cng mt cng vic vi th vin khc t do c s dng rng ri. Trong trng hp ny, nhng c li ch nhiu khi gi i hn th vin t do trong ch phn mm t do, v th chng ti s dng Giy php Cng cng Ph.&lt;/para&gt;

Trong trng hp khc, quyn s dng mt th vin no trong chng trnh khc t do cng cho rt nhiu ngi c kh nng s dng mt tp phn mm t do rt ln. Chng hn, quyn s dng Th vin C ca GNU trong cc chng trnh khc t do th cho rt nhiu ngi thm c kh nng s dng ton b h iu hnh GNU, cng nh bin th ca n, h iu hnh GNU/Linux.&lt;/para&gt;

Mc d Giy php Cng cng Ph lm t hn bo v quyn t do ca ngi dng, n c phi m bo ngi dng dng chng trnh c lin kt vi Th vin c quyn t do v kh nng chy chng trnh , bng mt phn bn sa i ca Th vin.&lt;/para&gt;

Theo y c nhng iu kin chnh xc sao chp, ppt hnh v sa i. Hy tp trung cn thn s khc bit gia &lt;quote&gt;mt sn phm da vo th vin&lt;/quote&gt; v &lt;quote&gt;mt sn phm s dng th vin&lt;/quote&gt; . iu trc cha m bt ngun t th vin, cn iu sau phi c kt hp vi th vin chy c.&lt;/para&gt;

</sect1>

<iu kin sao chp, pht hn nh sa i></title>

<iu kin Quyn ny p dng cho bt k th vin phn mm hay chng trnh khc m cha mt thng bo c chn vo bi ngi gi tc quyn hay bt k bn c quyn ni rng e c phh hnh theo cc iu khon ca Giy php Cng cng Ph ny (cng c gi nh l &lt;quote&gt;Giy php ny&lt;/quote&gt;). Mi ngi c cp bn quyn c gi l &lt;quote&gt;bn&lt;/quote&gt;.&lt;/para&gt;

Mt &lt;quote&gt;th vin&lt;/quote&gt; ngha l mt tp hp cc hm phn mm v/hay d liu c chun b c lin kt tin li vi chng trnh ng dng (m s dng mt s hm v d liu trong tp hp ny) xy dng tp tin c kh nng the hinh.&lt;/para&gt;

&lt;quote&gt;Th vin&lt;/quote&gt; di y e ngha l bt k th vin phn mm hay sn phm nh vy c phh hnh theo cc iu khon ny.
Mt <quote>sn phm da trn Th vin</quote> c ngha l Th vin hay bt k sn phm no bt ngun t n di lut bn quy: tc l, sn phm cha Th vin hay mt phn ca n, hoc ng nguy vn hoc vi s sa i v/hoc c dch sang mt ngn ng khc. (K t cu ny, vic dch ngn ng c bao gm v hn trong thut ng <quote>s sa i</quote>).)

<para><quote>M ngun</quote> ca sn phm c ngha l dng thc sn phm c a thch khi sa i n. i vi th vin, ton b m ngun c ngha l tt c cc m ngun cho mi m-un cha, cng vi bt c tp tin xc nh gia din tng ng, cng vi cc vn lnh c dng iu khin tin trnh bin dch v ci t th vin.</para>

<para>Nhung hot ng khc ngoi s sao chp, pht hnh v sa i khng c kim sot bi Giy php ny; n ngoi phm vi ca giy php ny. Hnh ng chy Th vin khng b hn ch, v d liu xut t Th vin ch b khng ch nu ni dung ca n to thnh mt sn phm da vo Th vin (khng ph thuc vo vic s dng Th vin nh l cng c ghi n). iu ng hay khng ph thuc vo iu m Th vin to ra, v iu m chng trnh s dng Th vin to ra.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>Phn 1</title>
<para>Bn c quyn sao chp v pht hnh bn sao ng nguy vn ca ton b m ngun ca Th vin nh bn nhn n, bng bt k cch no, min l bn cng b r rng v thc ng trn mi bn sao mt thng bo tc quyn thc hp v min tr bo hnh; gi nguyn vn mi thng bo lin quan n Giy php ny v min tr bo hnh; v a cho nhng ngi nhn Chng trnh khc mt bn sao ca Giy php cng vi Th vin.</para>

<para>Bn c th thu ph cho vic gi bn sao, v bn c th ty ngc ung cp dch v bo hnh c thu ph.</para>
</sect2>

<sect2 id="sect2" label="2">
<title>Phn 2</title>
<para>You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of <link linkend="sect1">Section 1</link> above, provided that you also meet all of these conditions:

<orderedlist numeration="loweralpha">
<li>The modified work must itself be a software library.
</li>
<li>You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
</li>
<li>You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.
</para>
<li>
<para>
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
</para>
</li>
<li>
<para>
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
</para>
</li>
<li>
<para>
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
</para>
</li>
<li>
<para>
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
</para>
</li>
<li>
<para>
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
</para>
</li>
Phn 3

Bn c th chn p dng cc iu kin ca Giy php Cng cng GNU chun, thay cho Giy php ny, cho mt bn sao no ca Th vin. Lm nh th, bn phi thay i m i thng bo cp Giy php ny. Cp Giy php Cng cng GNU chun, phin bn 2, thay cho Giy php ny. (C phin bn mi ln ca Giy php Cng cng GNU chun th bn c th ghi r phin bn thay th, nu bn mun.) Ng thay i g khec trong nhng thng bo ny.

Mt khi lm thay i ny trong bn sao no, khang th o ngc li cho bn sao, v th Giy php Cng cng GNU chun p dng cho tt cc bn sao ph v sn phm bt ngun t bn sao.

Ty chn ny khang c ch khi bn mun sao chp phn m ngun ca Th vin vo mt chng trnh khang phi l th vin.

Phn 4

Bn c quyn sao chp v pht hnh Th vin (hoc on no ca n hoc sn phm da vo n, di) trong dng the m i tng hay tp tin chy c vi iu kin ca. Phn 1 (v) v <link linkend="sect2">2</link>) trong dng the m i tng hay tp tin chy c vi iu kin ca <link linkend="sect1">Phn 1</link> v <link linkend="sect2">2</link> bn trn, min l bn km theo ton b m ngun tng ng m my c th c c. c phn hnh vi iu kin ca Phn <link linkend="sect1">1</link> v <link linkend="sect2">2</link> bn trn, trn thit b lu tr thng dng trao i phn mm.

Nu vic pht hnh m i tng c ln bng cch trao truy cp sao chp t mt ni xc nh, th vic trao cc truy cp sao chp tng ng n m ngun t cng ni c thnh l s phn hnh m ngun, mc d ngi khec khang bt bct phi sao chp m ngun cng vi m i tng.

Phn 5

Mt chng trnh khang cha sn phm bt ngun t bt c on no ca Th vin, cn c thit k l m vic vi Th vin bng cch c bin dch hay ln kt vi n, c gi l <quote>sn phm s dng Th vin</quote>. Sn phm nh vy, c lp khec phi l sn phm bt ngun t Th vin th nm ngoi phm vi ca Giy php ny.

Tuy nhin, vic lin kt mt <quote>sn phm s dng Th vin</quote> vi Th vin th to mt tp tin chy c bt ngun t Th vin (v n cha on ca Th vin), hn l mt <quote>sn phm s dng Th vin</quote>. Tp tin chy c th c bao qut bi Giy php ny. <link linkend="sect6">Phn 6</link> pht biu cc iu kin pht hnh tp tin chy c nh vy.

Khi mt <quote>sn phm s dng Th vin</quote> cng s dng on no ca tp tin phn u thuc v Th vin, m i tng cho sn phm ny c th l mt sn phm bt ngun t Th vin, mc d m ngun khec phi. iu ng hay khang l quan trng c bit nu sn phm ny c th
c lin kt khng c Th vin, hoc nu sn phm ny chnh n l th vin. Php lut cha xc nh chnh xc ngng ng ca trng hp ny. </para>

<para>Tp tin i tgt nh vy s dng ch cc tham s kiu s, b tr cu trc d liu, v v lnh nh v hm trc tip nh (mi iu c di ti a 10 dng) th chs s dng tp tin i tgt l v ln, bt chp n hp l l sn phm bt ngun. (Tp tin chy c cha m i tgt ny cng vi on ca Th vin vn cn nm di <link linkend="sect6">Phn 6</link>.)</para>

<para>Khng th, nu sn phm bt ngun t Th vin, bn c th phth lnh m i tgt ca sn phm theo iu kin ca <link linkend="sect6">Phn 6</link>. Bt k tp tin chy c cha sn phm cng nm di <link linkend="sect6">Section 6</link>, bt chp n c lin kt trc tip vi Th vin chnh n.</para>

<sect2 id="sect6" label="6"
<title>Phn 6</title>

<para>Ngoi l nhng Phn trn l bn cng c th kt hp hay lin kt mt <quote>sn phm s dng Th vin</quote> vi Th vin to mt sn phm cha on ca Th vin, ri phth lnh sn phm di cc iu khon bn chn, min l iu khon ny cho php sa i sn phm cho ngi khch s dng ring, v cho php thit k i chiu g li trong s sa i nh vy.</para>

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<orderedlist numeration="loweralpha">
<li id="sect6a">
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
</li>
</orderedlist>

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing this distribution.

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

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
<orderedlist numeration="loweralpha">
  <listitem>
    <para>Km theo th vin kt hp mt bn sao ca cng <quote>sn phm s dng Th vin</quote>, ring vi chc nng th vin khc
    no. N phi c pht hn hnh vi cc iu khon ca nhng Phn trn.</para>
  </listitem>
  <listitem>
    <para>Cng b r rng trn th vin kt hp thng bo rng phn ca n l <quote>sn phm s dng Th vin</quote>, cng ch ti ni cha
dng thc ring ca cng sn phm km theo.</para>
  </listitem>
</orderedlist>

<sect2 id="sect8" label="8">
  <title>Phn 8</title>
  <para>Khng cho php bn sao chp, sa i, lin kt vi hay pht hnh Th vin, tr vi iu kin c din t dt khot trong Giy php ny. Bt
  k s c gng no trong vic sao chp, sa i, cp giy php ph, lin kt vi hay pht hnh Th vin bng cch khe b bi b, v s t ng kt thc cc
  quy n ca bn di Giy php ny. Tuy nhn, nghi khc nhn bn sao hay quy n t bn di Giy php ny s khng b nh hng, min l h tip tc
tun theo hon ton.</para>
</sect2>

<sect2 id="sect9" label="9">
  <title>Phn 9</title>
  <para>Bn khng bt buc phi chp nhn Giy php ny, v bn cha k tn vo n. Tuy nhn, khng c g khe cho php bn sa i hay
  pht hnh Th vin hay sn phm bt ngun t n. Cc hnh ng ny b php lut cm nu bn khng chp nhn Giy php ny. V vy, bng cch sa
  i hay pht hnh Th vin (hay sn phm da vo n), bn ng s chp nhn Giy php ny lm nh th, gm mi iu kin sao chp, bng hnh hay
  sa i Th vin hay sn phm da vo n.</para>
</sect2>

<sect2 id="sect10" label="10">
  <title>Phn 10</title>
  <para>Mi ln bn pht hnh li Th vin (hay sn phm da vo Th vin), nghi nhn c th nhn t ng mt giy php t nghi cp gc, sao
  chp, pht hnh, lin kt vi hay sa i Th vin vi iu kin ny. Khng cho php bn ln ch thm cch ngi dng s dng cc quy n c cp trong
  Giy php ny. Bn cng khng phi chu trch nhim v vic p buc nghi khc tun theo iu kin ca Giy php ny.</para>
</sect2>

<sect2 id="sect11" label="11">
  <title>Phn 11</title>
  <para>Nu, do kt qu ca quy t nh ca to n hay cc co buc vi phm bng sng ch hay v bt c l do no (khng b gii hn trong vn
  bng sng ch), bn b p buc chp nhn iu kin (hoc v quy t nh ca to n, s tho thun hoc cch khe no) m mu thun iu kin ca Giy
  php ny, trng hp ny khng min cho bn khng phi tha mn iu kin ca Giy php ny. Nu bn khng th pht hnh bng cch th thn ng
  thi cc gia o ca bn di Giy php ny v bt k gia o c thch hp khe, th kt qu l khng cho php bn pht hnh Th vin bng cch no c.
  Ly th d, nu mt bng sng ch no khng cho php s pht hnh li Th vin mt cch min tin bn quy nh pht minh cho mi nghi nhn bn
  sao t bn mt cch trc tip hay gin tip, th cch duy nh t bn c th th c bng v Giy php ny l hon ton khng pht hnh Th
vin.

<para>Nu on no trong phn ny c quyt nh l khng hp l hay khng th c p buc trong bt k trng hp ring no, on cn li d nh p
dng c, v ton b phn d nh p dng trong cc trng hp khi.</para>

<para>Khung phi l mc ch ca phn ny xi gic bn vi phm bng sng ch ho hay li yu sch quyn ti sn khc, hoc khng th
nh s hp l ca li yu sch nh vy; phn ny c mc ch duy nh l bo v nhd trng nguy vn ca h thng pht hnh phn mm t do, m c
thc thi bi cc p dng giy php cng cng. Nhu ngi ng gp rng lng cho mt phm v rng ca cc phn mm c pht hnh qua h thng,
nh s thc thi nn b h thng : ty tc gi / nghi lng quyt nh nu h mun pht hnh phn mm qua h thng khi no, v nghi c cp Giy php
khng th tu khin ccc quyt nh .</para>

<para>Phn ny d nh din t r ng hon ton kt qu c hiu ca phn cn li ca Giy php ny.</para>

<sect2 id="sect2" label="2">
<title>Phn 2</title>

<para>Nu s phth hnh v/hay cch s dng Th vin b hn ch trong mt s que gia no , hoc bi bng sng ch hoc bi gia din c bn
quyn tc gi, nghi tc quyng gc t Th vin di Giy php ny c kh nhng thm s hn ch pht hnh a l ring loi tr nhng que gia , cho
php pht hnh ch trong hay gia cc que gia khng b loi tr nh th. Trong trng hp nh vy, Giy php ny hp nht s hn ch nh l n c
gi trong thn ca Giy php ny.</para>

<sect2 id="sect3" label="3">
<title>Phn 3</title>

<para>T che Phn mm T do c th xut bn phin bn  sa i v/hay mi ca Giy php Cng cng Ph GNU. Phin bn mi nh vy s c
tinh thn tng t vi phin bn hin thi, nhng c th khi b i trong chi tit gii quyt vn mi.</para>

<para>Phin bn c gn mt s hiu phn bit phin bn . Nu Th vin xc nh s phin bn ring ca Giy php ny p dng cho n,
<quote>v bt k phin bn sau no</quote>, bn c ty chn thia iu kin hoc ca phin bn , hoc ca bt k phin bn sau no c xut bn bi
T che Phn mm T do. Nu Th vin khng xc nh s phin bn ring ca Giy php ny, bn c kh nhng chn bt k phin bn no ca Giy php
ny c xut bn bi T che Phn mm T do.</para>

<sect2 id="sect4" label="4">
<title>Phn 4</title>

<para>Nu bn mun hp nht phn no ca Th vin vo chng trnh t do khc iu kin pht hnh khng tng thc vi Giy php ny, hy
xin php tc gi, i vi phn mm c bn quyng tc gi ca T che Phn mm T do, hy vit th cho T che Phn mm T do ; thng thong
chng ti cho php ngoi l trong trng hp ny. Quyt nh ca chng ti s c hng dn bi hai mc ch l s bo tn trng thi t do ca mi iu bt
ngun t phn mm t do ca chng ti, v s y mnh s chia s v s dng li phn mm mt ccc chung.</para>

<sect2 id="sect5" label="5">
<title>KHNG BO HNH</title>

<subtitle>Phn 5</subtitle>
<para>V TH VIN C CP PHP MIN PH, KHNG C BO HNH I VI TH VIN NY, VI IU KIN C PHP LUT CHO PHP. TR KHI XC NH KH C BNG TI LIU GIY T, CC NGI GI BN QUYN TC GI V/HAY NGI KH C CUNG CP TH VIN NY &lt;quote&gt;NH TH&lt;/quote&gt;, KHNG C BO HNH G C, KHNG PHT BIU N, CNG KHNG NG N, GM, NHNG KHNG B HN CH BI, S BO M NG TNH TRNG C TH BN C V S THCH HP VI MT MC CH DT KHOT. MI RI RO V CHT LNG, CHNH XC V HIU SUT CA TH VIN NY BN S T CHU. NU TH VIN NY GY RA H HNG, BN GNH VC HON TON TRCH NGHIM TR TIN DCH V GIP HAY SA CHA.&lt;/para&gt;
</sect2>

&lt;sect2 id="sect16" label="16"
<title>Phn 16&lt;/title&gt;

&lt;para&gt;KHNG C TRNG HP NO (TR KHI PHP LUT YU CU HAY KHI C THA THUN BNG TI LIU GIY T) M BT K NGI GI BN QUYN TC GI NO, HAY BT K NGI KH C NO C TH SA I V/HAY PHT HNH LI TH VIN NH C PHP BN TRN, S C TRCH NHIM V PHP L BI THNG, GM BT K BI THNG KIU TNG QUT, C BIT, NGU NHIN HAY DO HU QU DO S DNG HAY S KHNG C KH NNG S DNG TH VIN NY (GM NHNG KHNG PHI B HN TH BI S MT D LIU HAY D LIU B LM CHO KHNG CHNH XC HAY CC MT MT CA BN HAY NGI KH C HAY S KHNG HOT NG C TH VIN NY VI CHNG TRNH KH C), THM CH NU BN HAY NGI KH C BO BIT C KH NNG THIT HI NH VY.&lt;/para&gt;
</sect2>
</sect1>

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</sect1>

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</sect2>

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</sect2>

<sect2 id="sect2" label="2">
<title>Sección 2</title>
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<para>Acompaarlo con el código fuente leble completo correspondiente, leble por máquinas, que debe ser distribuido segn los tarminos las <link linkend="sect1">Secciones 1</link> y <link linkend="sect2">2</link> mencionadas antes en un medio habitualmente utilizado para el intercambio de software, o.</para>

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1.654 python-blivet 0.61.15.74-1.el7
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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(For example, a function in a library to compute square roots has
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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jar/com/ctc/wstx/sw/OutputElementBase.java
jar/com/ctc/wstx/sw/SimpleOutputElement.java
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(pthread_once cancellation added by rpj).

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reimplemented `pthread_once` with the same form

as described by A.Terekhov (later version 2);

implementation of MCS (Mellor-Crummey/Scott) locks.

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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

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

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%:o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%:o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%:d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \n| sed s/\([^*\(\)]*\)/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@'
%:d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n| sed s/\([^*\(\)]*\)/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s %{<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s *F,.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

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

## Remove shared library 's'
## End BSD-specific setup

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1.674 coreutils 8.28 1ubuntu1

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Library, but is designed to work with the Library by being compiled or 
linked with it, is called a "work that uses the Library". Such a 
work, in isolation, is not a derivative work of the Library, and 
therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may copy and distribute the Library (or a portion or
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1.681 rtmpdump 2.4+20151223.gitfa8646d.1 1

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From strings/apr_strnatcmp.c, include/apr_strings.h:

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* 
g722_decode.c - The ITU G.722 codec, decode part.
* 
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* 
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
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curl

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************************************************
dynamic_annotations
************************************************
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eigen3
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Following applies to:
/test/mapstaticmethods.cpp
/test/schur_real.cpp
/test/prec_inverse_4x4.cpp
/test/smallvectors.cpp
/test/redux.cpp
/test/special_numbers.cpp
/test/adjoint.cpp
/test/resize.cpp
/test/mixingtypes.cpp
/test/product_trmv.cpp
/test/sparse_solvers.cpp
/test/cholesky.cpp
/test/geo_quaternion.cpp
/test/miscmatrices.cpp
/test/stddeque.cpp
/test/integer_types.cpp
/test/product_large.cpp
/test/eigensolver_generic.cpp
/test/householder.cpp
/test/geo_orthomethods.cpp
/test/array_for_matrix.cpp
/test/sparseLM.cpp
/test/upperbidiagonalization.cpp
/test/nomalloc.cpp
/test/packetmath.cpp
/test/jacobisvd.cpp
/test/geo_transformations.cpp
/test/swap.cpp
/test/eigensolver_selfadjoint.cpp
/test/inverse.cpp
/test/product_selfadjoint.cpp
/test/product_trsolve.cpp
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/test/product_extra.cpp
/test/sparse_solver.h
/test/mapstride.cpp
/test/mapped_matrix.cpp
/test/geo_eulerangles.cpp
/test/eigen2support.cpp
/test/denselm.cpp
/test/stdvector.cpp
/test/nesting_ops.cpp
/test/sparse_permutations.cpp
/test/zerosized.cpp
/test/exceptions.cpp
/test/vectorwiseop.cpp
/test/cwiseop.cpp
/test/basicstuff.cpp
/test/product_trmm.cpp
/test/linearstructure.cpp
/test/sparse_product.cpp
/test/stdvector_overload.cpp
/test/stable_norm.cpp
/test/umeiyama.cpp
/test/unalignedcount.cpp
/test/triangular.cpp
/test/product_nmtr.cpp
/test/sparse_basic.cpp
/test/sparse_vector.cpp
/test/meta.cpp
/test/real_qz.cpp
/test/ref.cpp
/test/eigensolver_complex.cpp
/test/cholmod_support.cpp
/test/conjugate_gradient.cpp
/test/sparse.h
/test/simplicial_cholesky.cpp
/test/bicgstab.cpp
/test/dynalloc.cpp
/test/product_notemporary.cpp
/test/geo_hyperplane.cpp
/test/lu.cpp
/test/qr.cpp
/test/hessenberg.cpp
/test/sizeof.cpp
/test/main.h
/test/selfadjoint.cpp
/test/permutationmatrices.cpp
/test/superlu_support.cpp
/test/qtvector.cpp
/test/geo_homogeneous.cpp
 Pure Text Representation of Document: 

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/test/determinant.cpp
/test/array_reverse.cpp
/test/unalignedassert.cpp
/test/stdlist.cpp
/test/product_symm.cpp
/test/corners.cpp
/test/dontalign.cpp
/test/visitor.cpp
/test/geo_alignedbox.cpp
/test/diagonalmatrices.cpp
/test/product_small.cpp
/test/umfpack_support.cpp
/test/first_aligned.cpp
/test/qr_fullpivoting.cpp
/test/array_replicate.cpp
/test/geo_parametrizedline.cpp
/test/eigen2/eigen2_unalignedassert.cpp
/test/eigen2/eigen2_prec_inverse_4x4.cpp
/test/eigen2/eigen2_alignedbox.cpp
/test/eigen2/eigen2_sparse_product.cpp
/test/eigen2/eigen2_meta.cpp
/test/eigen2/eigen2_nomalloc.cpp
/test/eigen2/eigen2_visitor.cpp
/test/eigen2/eigen2_packetmath.cpp
/test/eigen2/eigen2_svd.cpp
/test/eigen2/eigen2_mixingtypes.cpp
/test/eigen2/eigen2_qr.cpp
/test/eigen2/eigen2_cwiseop.cpp
/test/eigen2/eigen2_geometry_with_eigen2_prefix.cpp
/test/eigen2/eigen2_smallvectors.cpp
/test/eigen2/eigen2_commoninitializer.cpp
/test/eigen2/eigen2_sparse_solvers.cpp
/test/eigen2/eigen2_hyperplane.cpp
/test/eigen2/eigen2_eigensolver.cpp
/test/eigen2/eigen2_linearstructure.cpp
/test/eigen2/eigen2_sizeof.cpp
/test/eigen2/eigen2_parametrizedline.cpp
/test/eigen2/eigen2_lu.cpp
/test/eigen2/eigen2_adjoint.cpp
/test/eigen2/eigen2_geometry.cpp
/test/eigen2/eigen2_stdvector.cpp
/test/eigen2/eigen2_newstdvector.cpp
/test/eigen2/eigen2_submatrices.cpp
/test/eigen2/sparse.h
/test/eigen2/eigen2_swap.cpp
/test/eigen2/eigen2_triangular.cpp
/test/eigen2/eigen2_basicstuff.cpp
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/demos/mix_eigen_and_c/binary_library.h
/demos/mix_eigen_and_c/example.c
/demos/mandelbrot/mandelbrot.cpp
/demos/mandelbrot/mandelbrot.h
/demos/opengl/icosphere.cpp
/demos/opengl/icosphere.h
/demos/opengl/camera.cpp
/demos/opengl/camera.h
/demos/opengl/trackball.h
/demos/opengl/gpuhelper.h
/demos/opengl/trackball.cpp
/demos/opengl/gpuhelper.cpp
/demos/opengl/quaternion_demo.cpp
/demos/opengl/quaternion Demo.h
/debug/gdb/printers.py
/unsupported/test/minres.cpp
/unsupported/test/openglsupport.cpp
/unsupported/test/jacobisvd.cpp
/unsupported/test/dgmres.cpp
/unsupported/test/matrix_square_root.cpp
/unsupported/test/bdcsvd.cpp
/unsupported/test/matrix_exponential.cpp
/unsupported/test/forward_adolc.cpp
/unsupported/test/polynomial_solver.cpp
/unsupported/test/matrix_function.cpp
/unsupported/test/sparse_extra.cpp
/unsupported/test/matrix_functions.h
/unsupported/test/svd_extra.cpp
/unsupported/test/FFTW.cpp
/unsupported/test/alignedvector3.cpp
/unsupported/test/autodiff.cpp
/unsupported/test/gmres.cpp
/unsupported/test/BVH.cpp
/unsupported/test/levenberg_marquardt.cpp
/unsupported/test/matrix_power.cpp
/unsupported/test/kronecker_product.cpp
/unsupported/test/splines.cpp
/unsupported/test/polynomialutils.cpp
/unsupported/bench/bench_svd.cpp
/unsupported/Eigen/IterativeSolvers
/unsupported/Eigen/src/IterativeSolvers/DGMRES.h
/unsupported/Eigen/src/IterativeSolvers/IncompleteLU.h
/unsupported/Eigen/src/IterativeSolvers/GMRES.h
/unsupported/Eigen/src/IterativeSolvers/IncompleteCholesky.h
/unsupported/Eigen/src/IterativeSolvers/Scaling.h
/unsupported/Eigen/src/IterativeSolvers/MINRES.h
/unsupported/Eigen/src/SparseExtra/RandomSetter.h
/unsupported/Eigen/src/SparseExtra/MatrixMarketIterator.h
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Eigen includes the following directories:

- /unsupported/Eigen/MatrixFunctions
- /unsupported/Eigen/MoreVectorization
- /unsupported/Eigen/LevenbergMarquardt
- /unsupported/Eigen/AlignedVector3
- /unsupported/Eigen/FFT
- /unsupported/Eigen/Polynomials
- /unsupported/Eigen/NumericalDiff
- /unsupported/Eigen/Skyline
- /COPYING.README
- /COPYING.README
- /LICENSE
- /LICENSE
- /LICENSE
- /Eigen/Eigen2Support
- /Eigen/src/Eigen2Support/VectorBlock.h
- /Eigen/src/Eigen2Support/Cwise.h
- /Eigen/src/Eigen2Support/Minor.h
- /Eigen/src/Eigen2Support/Lazy.h
- /Eigen/src/Eigen2Support/Memory.h
- /Eigen/src/Eigen2Support/MathFunctions.h
- /Eigen/src/Eigen2Support/Geometry/AlignedBox.h
- /Eigen/src/Eigen2Support/Geometry/Hyperplane.h
- /Eigen/src/Eigen2Support/Geometry/Quaternion.h
- /Eigen/src/Eigen2Support/Geometry/Rotation2D.h
- /Eigen/src/Eigen2Support/Geometry/ParametrizedLine.h
- /Eigen/src/Eigen2Support/Geometry/RotationBase.h
- /Eigen/src/Eigen2Support/Geometry/Translation.h
- /Eigen/src/Eigen2Support/Geometry/Scaling.h
- /Eigen/src/Eigen2Support/Geometry/AngleAxis.h
- /Eigen/src/Eigen2Support/Geometry/Transform.h
- /Eigen/src/Eigen2Support/TriangularSolver.h
- /Eigen/src/Eigen2Support/LU.h
- /Eigen/src/Eigen2Support/QR.h
- /Eigen/src/Eigen2Support/SVD.h
- /Eigen/src/Eigen2Support/Meta.h
- /Eigen/src/Eigen2Support/Block.h
- /Eigen/src/Eigen2Support/Macros.h
- /Eigen/src/Eigen2Support/LeastSquares.h
- /Eigen/src/Eigen2Support/CwiseOperators.h
- /Eigen/src/Jacobi/Jacobi.h
- /Eigen/src/misc/Kernel.h
- /Eigen/src/misc/SparseSolve.h
- /Eigen/src/misc/Solve.h
- /Eigen/src/misc/Image.h
- /Eigen/src/SparseCore/SparseColEtree.h
- /Eigen/src/SparseCore/SparseTranspose.h
- /Eigen/src/SparseCore/SparseUtil.h
- /Eigen/src/SparseCore/SparseCwiseBinaryOp.h
/Eigen/src/QR/FullPivHouseholderQR.h
/Eigen/src/SVD/JacobiSVD.h
/Eigen/src/SVD/UpperBidiagonalization.h
/Eigen/src/Geometry/OrthoMethods.h
/Eigen/src/Geometry/AlignedBox.h
/Eigen/src/Geometry/Hyperplane.h
/Eigen/src/Geometry/Quaternion.h
/Eigen/src/Geometry/EulerAngles.h
/Eigen/src/Geometry/Rotation2D.h
/Eigen/src/Geometry/ParametrizedLine.h
/Eigen/src/Geometry/RotationBase.h
/Eigen/src/Geometry/arch/Geometry_SSE.h
/Eigen/src/Geometry/Umeyama.h
/Eigen/src/Geometry/Homogeneous.h
/Eigen/src/Geometry/Translation.h
/Eigen/src/Geometry/Scaling.h
/Eigen/src/Geometry/AngleAxis.h
/Eigen/src/Geometry/Transform.h
/Eigen/src/plugins/BlockMethods.h
/Eigen/src/plugins/CommonCwiseUnaryOps.h
/Eigen/src/plugins/CommonCwiseBinaryOps.h
/Eigen/src/plugins/MatrixCwiseUnaryOps.h
/Eigen/src/plugins/MatrixCwiseBinaryOps.h
/Eigen/src/Householder/Householder.h
/Eigen/src/Householder/HouseholderSequence.h
/Eigen/src/Householder/BlockHouseholder.h
/Eigen/src/Core/VectorBlock.h
/Eigen/src/Core/Matrix.h
/Eigen/src/Core/Ref.h
/Eigen/src/Core/SelfAdjointView.h
/Eigen/src/Core/MathFunctions.h
/Eigen/src/Core/GlobalFunctions.h
/Eigen/src/Core/MapBase.h
/Eigen/src/Core/EigenBase.h
/Eigen/src/Core/GenericPacketMath.h
/Eigen/src/Core/NestByValue.h
/Eigen/src/Core/CwiseUnaryOp.h
/Eigen/src/Core/SolveTriangular.h
/Eigen/src/Core/Fuzzy.h
/Eigen/src/Core/Visitor.h
/Eigen/src/Core/Map.h
/Eigen/src/Core/NoAlias.h
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--- end of FTL.TXT ---

GL

Mesa Component Licenses

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jpeg
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objective_c/gtm_session_fetcher

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

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Agreement version 3.0

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NOW, THEREFORE, THE PARTIES HEREBY AGREE AS FOLLOWS:

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"Support Renewal Term" shall mean a time period of twelve (12) months, calculated from the end of the Initial Support Term or previous Support Renewal Term, as applicable.

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The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

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shall pay The Qt Company's reasonable cost of conducting such audit.

12 TERM AND TERMINATION

12.1 Term

This Agreement shall enter into force upon due acceptance by both Parties and remain in force for the Term, unless and until terminated pursuant to the terms of this Section 12.

12.2 Termination by The Qt Company

The Qt Company shall have the right to terminate this Agreement upon thirty (30) days prior written notice if (i) the Licensee is in material breach of any obligation of this Agreement and fails to remedy such breach within such notice period; (ii) or Licensee or any of its Affiliates bring a suit before any court or administrative agency or otherwise assert a claim against The Qt Company's or any of its Affiliates' Intellectual Property Rights or validity thereof.

12.3 Mutual Right to Terminate

Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

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* $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
* Portable Audio I/O Library
* Memory barrier utilities
*
* Author: Bjorn Roche, XO Audio, LLC
*
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 */

/*
 * $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
 * Portable Audio I/O Library
 * Ring Buffer utility.
 *
 * Author: Phil Burk, http://www.softsynth.com
 * modified for SMP safety on Mac OS X by Bjorn Roche
 * modified for SMP safety on Linux by Leland Lucius
 * also, allowed for const where possible
 * modified for multiple-byte-sized data elements by Sven Fischer
 *
 * Note that this is safe only for a single-thread reader and a
 * single-thread writer.
 *
 * This program uses the PortAudio Portable Audio Library.
 * For more information see: http://www.portaudio.com
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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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Mesa 3-D graphics library
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`cssmin.py` - A Python port of the YUI CSS compressor.

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^tools/utils/qtcreator/

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
  - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make_sunver.pl`
  - `doc/t2h.pm`
  - `doc/texi2pod.pl`
  - `libswresample/swresample-test.c`
  - `tests/checkasm/*`
  - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fspp.c`
  - `vf_geq.c`
  - `vf_hqdn3d.c`
  - `vf_interlace.c`
  - `vf_kerndeint.c`
  - `vf_mcdeint.c`
  - `vf_mpdecimate.c`
  - `vf_owdenoise.c`
- `vf_perspective.c`
- `vf_phase.c`
- `vf_pp.c`
- `vf_pp7.c`
- `vf_pullup.c`
- `vf_repeatfields.c`
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- `vf_spp.c`
- `vf_stereo3d.c`
- `vf_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vsrc_mptestsrc.c`

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There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
* `tests/reference.pnm` is under the expat license.

## External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

### Compatible libraries

The following libraries are under GPL:
- frei0r
- libcdio
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxvid
When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The OpenCORE and VisualOn libraries are under the Apache License 2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

### Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

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(ii) Applications must add primary and substantial functionality to the Licensed Software so as not to compete with the Licensed Software;

(iii) Applications may not pass on functionality which in any way makes it possible for others to create software with the Licensed Software; provided however that Licensee may use the Licensed Software's scripting and QML ("Qt Quick") functionality solely in order to enable scripting, themes and styles that augment the functionality and appearance of the Application(s) without adding primary and substantial functionality to the Application(s);

(iv) Licensee shall not use Licensed Software in any manner or for any purpose that infringes, misappropriates or otherwise violates any Intellectual property or right of any third party, or that violates any applicable law;

(v) Licensee shall not use The Qt Company's or any of its suppliers' names, logos, or trademarks to market Applications, except that Licensee may use "Built with Qt" logo to indicate that Application(s) was developed using the Licensed Software;

(vi) Licensee shall not distribute, sublicense or disclose source code of Licensed Software to any third party (provided however that Licensee may appoint employee(s) of Contractors as Designated Users to use Licensed Software pursuant to this Agreement). Such right may be available for the Licensee subject to a separate software development kit ("SDK") license agreement to be concluded with The Qt Company;

(vii) Licensee shall not grant the Customers a right to (i) make copies of the Redistributables except when and to the extent required to use the Applications and/or Devices for their intended purpose, (ii) modify the Redistributables or create derivative works thereof, (iii) decompile, disassemble or otherwise reverse
engineer Redistributables, or (iv) redistribute any copy or portion of the Redistributables to any third party, except as part of the onward sale of the Device on which the Redistributables are installed;

(viii) Licensee shall not and shall cause that its Affiliates or Contractors shall not use Licensed Software in any Prohibited Combination, unless Licensee has received an advance written permission from The Qt Company to do so. Absent such written permission, any and all distribution by the Licensee during the Term of a hardware device or product a) which incorporate or integrate any part of Licensed Software or Open Source Qt; or b) where the main user interface or substantial functionality is provided by software built with Licensed Software or Open Source Qt or otherwise depends on the Licensed Software or Open Source Qt, shall be considered to be Device distribution under this Agreement and shall be dependent on Licensee's compliance thereof (including but not limited to obligation to pay applicable License Fees for such distribution). Notwithstanding what is provided above in this sub-section (viii), Licensee is entitled to use and combine Qt 3D Studio and/or Qt Design Studio with Open Source Qt ("Permitted Combination") for its internal evaluation purposes, provided that Licensee shall in no way transfer, publish, disclose, display or otherwise make available any software or work resulting from such Permitted Combination;

(ix) Licensee shall cause all of its Affiliates and Contractors entitled to make use of the licenses granted under this Agreement, to be contractually bound to comply with the relevant terms of this Agreement and not to use the Licensed Software beyond the terms hereof and for any purposes other than operating within the scope of their services for Licensee. Licensee shall be responsible for any and all actions and omissions of its Affiliates and Contractors relating to the Licensed Software and use thereof (including but not limited to payment of all applicable License Fees);

(x) Except when and to the extent explicitly provided in this Section 3, Licensee shall not transfer, publish, disclose, display or otherwise make available the Licensed Software; and

(xi) Licensee shall not attempt or enlist a third party to conduct or attempt to conduct any of the above.

Above terms shall not be applicable if and to the extent they conflict with any mandatory provisions of any applicable laws. Any use of Licensed Software beyond the provisions of this Agreement is strictly prohibited and requires an additional license from The Qt Company.

4. THIRD-PARTY SOFTWARE
The Licensed Software may provide links to third party libraries or code (collectively "Third-Party Software") to implement various functions.
Third-Party Software does not comprise part of the Licensed Software. In some cases, access to Third-Party Software may be included with the Licensed Software. Such Third-Party Software will be listed in the "/src/3rdparty" source tree delivered with the Licensed Software or documented in the Licensed Software, as such may be amended from time to time. Licensee acknowledges that use or distribution of Third-Party Software is in all respects subject to applicable license terms of applicable third-party right holders.

5. PRE-RELEASE CODE
The Licensed Software may contain pre-release code and functionality, or sample code marked or otherwise stated with appropriate designation such as "Technology Preview", "Alpha", "Beta", "Sample" etc. ("Pre-Release Code").

Such Pre-Release Code may be present complimentary for the Licensee, in order to provide experimental support or information for new platforms or preliminary versions of one or more new functionalites or for other similar reasons. The Pre-Release Code may not be at the level of performance and compatibility of a final, generally available, product offering. The Pre-Release Code may not operate correctly, may contain errors and may be substantially modified by The Qt Company prior to the first commercial product release, if any. The Qt Company is under no obligation to make Pre-Release Code commercially available, or provide any Support or Updates relating thereto. The Qt Company assumes no liability whatsoever regarding any Pre-Release Code, but any use thereof is exclusively at Licensee's own risk and expense.

For clarity, unless Licensed Software specifies different license terms for the respective Pre-Release Code, the Licensee is entitled to use such pre-release code pursuant to Section 3, just like other Licensed Software, provided however that in the event Add-on Products are included and available as such Pre-Release Code, Licensee's right to use such Add-on Products is nevertheless subject to and conditional upon conclusion of separate agreement with The Qt Company.

6. LIMITED WARRANTY AND WARRANTY DISCLAIMER
The Qt Company hereby represents and warrants that it has the power and authority to grant the rights and licenses granted to Licensee under this Agreement.

Except as set forth above, the Licensed Software is licensed to Licensee "as is" and Licensee's exclusive remedy and The Qt Company's entire liability for errors in the Licensed Software shall be limited, at The Qt Company's option, to correction of the error, replacement of the Licensed Software or return of the applicable fees paid for the defective Licensed Software for the time period during which the License is not able to utilize the Licensed Software under the terms of this Agreement.

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE QT COMPANY ON BEHALF OF ITSELF AND ITS LICENSORS, SUPPLIERS AND AFFILIATES, DISCLAIMS ALL OTHER
WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT WITH REGARD TO THE LICENSED SOFTWARE. THE QT COMPANY DOES NOT WARRANT THAT THE LICENSED SOFTWARE WILL SATISFY LICENSEE'S REQUIREMENTS OR THAT IT WILL OPERATE WITHOUT DEFECT OR ERROR OR THAT THE OPERATION THEREOF WILL BE UNINTERRUPTED.

7. INDEMNIFICATION AND LIMITATION OF LIABILITY

7.1. Limitation of Liability

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY LOSS OF PROFIT, LOSS OF DATA, LOSS OF BUSINESS OR GOODWILL OR ANY OTHER INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE COST, DAMAGES OR EXPENSE OF ANY KIND, HOWSOEVER ARISING UNDER OR IN CONNECTION WITH THIS AGREEMENT.

EXCEPT FOR (I) CASES OF GROSS NEGLIGENCE OR INTENTIONAL MISCONDUCT, AND (II) BREACH OF CONFIDENTIALITY, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL EITHER PARTY'S TOTAL AGGREGATE LIABILITY UNDER THIS AGREEMENT EXCEED THE AGGREGATE LICENSE FEES PAID OR PAYABLE TO THE QT COMPANY FROM LICENSEE DURING THE PERIOD OF TWELVE (12) MONTHS IMMEDIATELY PRECEDING THE EVENT RESULTING IN SUCH LIABILITY.

THE PROVISIONS OF THIS SECTION 7 ALLOCATE THE RISKS UNDER THIS AGREEMENT BETWEEN THE QT COMPANY AND LICENSEE AND THE PARTIES HAVE RELIED UPON THE LIMITATIONS SET FORTH HEREIN IN DETERMINING WHETHER TO ENTER INTO THIS AGREEMENT.

NOTWITHSTANDING ANYTHING TO THE CONTRARY IN THIS AGREEMENT, LICENSEE SHALL ALWAYS BE LIABLE TO PAY THE APPLICABLE LICENSE FEES CORRESPONDING TO ITS ACTUAL USE OF LICENSED SOFTWARE.

8. SUPPORT, UPDATES AND ONLINE SERVICES

Upon due payment of the agreed License Fees the Licensee will be eligible to receive Support and Updates and to use the Online Services during the License Term, provided, however, that in the event the License Term is longer than 36 months, the initial payment includes Support for only the first 12 months, unless the Parties specifically otherwise agree.

Unless otherwise decided by The Company at its free and absolute discretion, Upgrades will not be included in the Support but may be available subject to additional fees.

From time to time The Qt Company may change the Support terms, provided that during the respective ongoing License Term the level of Support provided by The Qt Company may not be reduced without the consent of the Licensee.

Unless otherwise agreed, The Qt Company shall not be responsible for providing
any service or support to Customers.

9. CONFIDENTIALITY
Each Party acknowledges that during the Term of this Agreement each Party may receive information about the other Party's business, business methods, business plans, customers, business relations, technology, and other information, including the terms of this Agreement, that is confidential and of great value to the other Party, and the value of which would be significantly reduced if disclosed to third parties ("Confidential Information"). Accordingly, when a Party (the "Receiving Party") receives Confidential Information from the other Party (the "Disclosing Party"), the Receiving Party shall only disclose such information to employees and Contractors on a need to know basis, and shall cause its employees and employees of its Affiliates to: (i) maintain any and all Confidential Information in confidence; (ii) not disclose the Confidential Information to a third party without the Disclosing Party's prior written approval; and (iii) not, directly or indirectly, use the Confidential Information for any purpose other than for exercising its rights and fulfilling its responsibilities pursuant to this Agreement. Each Party shall take reasonable measures to protect the Confidential Information of the other Party, which measures shall not be less than the measures taken by such Party to protect its own confidential and proprietary information.

Obligation of confidentiality shall not apply to information that (i) is or becomes generally known to the public through no act or omission of the Receiving Party; (ii) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (iii) is developed independently by employees or Contractors of the Receiving Party or other persons working for the Receiving Party who have not had access to the Confidential Information of the Disclosing Party, as proven by the written records of the Receiving Party; (iv) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (v) the Receiving Party is legally compelled to disclose, in which case the Receiving Party shall notify the Disclosing Party of such compelled disclosure and assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to limit the scope of disclosure and the dissemination of disclosed Confidential Information to the minimum extent necessary.

The obligations under this Section 9 shall continue to remain in force for a period of five (5) years after the last disclosure, and, with respect to trade secrets, for so long as such trade secrets are protected under applicable trade secret laws.

10. FEES, DELIVERY AND PAYMENT
10.1. License Fees
License Fees are described in The Qt Company's standard price list, quote or Purchase Order confirmation or in an appendix hereto, as the case may be.
The License Fees shall not be refunded or claimed as a credit in any event or for any reason whatsoever.

10.2. Ordering Licenses
Licensee may purchase Development Licenses and Distribution Licenses pursuant to agreed pricing terms or, if no specific pricing terms have been agreed upon, at The Qt Company's standard pricing terms applicable at the time of purchase. Unless specifically otherwise provided, any pricing terms referenced in this Agreement shall be valid for twelve (12) months from the date of this Agreement.

Licensee shall submit all purchase orders for Development Licenses and Distribution Licenses to The Qt Company by email or any other method acceptable to The Qt Company (each such order is referred to herein as a "Purchase Order") for confirmation, whereupon the Purchase Order shall become binding between the Parties.

10.3. Distribution License Packs
Unless otherwise agreed, Distribution Licenses shall be purchased by way of Distribution License Packs.

Upon due payment of the ordered Distribution License Pack(s), the Licensee will have an account of Distribution Licenses available for distributing the Redistributables in accordance with this Agreement.

Each time Licensee distributes a copy of Redistributables, then one Distribution License is used, and Licensee's account of available Distribution Licenses is decreased accordingly. Licensee may distribute copies of the Redistributables so long as Licensee has Distribution Licenses remaining on its account.

10.4. Payment Terms
License Fees and any other charges under this Agreement shall be paid by Licensee no later than thirty (30) days from the date of the applicable invoice from The Qt Company.

The Qt Company will submit an invoice to Licensee after the date of this Agreement and/or after The Qt Company receives a Purchase Order from Licensee.

A late payment charge of the lower of (a) one percent per month; or (b) the interest rate stipulated by applicable law, shall be charged on any unpaid balances that remain past due.

10.5. Taxes
All License Fees and other charges payable hereunder are gross amounts but exclusive of any value added tax, use tax, sales tax, withholding tax and other taxes, duties or tariffs ("Taxes") levied directly for the sale, delivery or use of Licensed Software hereunder pursuant to any applicable law. Such applicable Taxes shall be paid by Licensee to The Qt Company, or, where
applicable, in lieu of payment of such Taxes to The Qt Company, Licensee shall
provide an exemption certificate to The Qt Company and any applicable authority.

11. RECORD-KEEPING AND REPORTING OBLIGATIONS; AUDIT RIGHTS
11.1. Licensee's Record-keeping
Licensee shall at all times during the Term of this Agreement and for a period
of seven (7) years thereafter maintain Licensee's Records in an accurate and
up-to-date form. Licensee's Records shall be adequate to reasonably enable The
Qt Company to determine Licensee's compliance with the provisions of this
Agreement. The records shall conform to general good accounting practices.

Licensee shall, within thirty (30) days from receiving The Qt Company's request
to that effect, deliver to The Qt Company a report based on Licensee's Records,
such report to contain information, in sufficient detail, on (i) number and
identity of users working with Licensed Software or Open Source Qt, (ii) copies
of Redistributables distributed by Licensee during the most recent calendar
quarter and/or any other term specified by The Qt Company, (iii) number of
undistributed copies of Redistributables and corresponding number of unused
Distribution Licenses remaining on Licensee's account, and (iv) any other
information as The Qt Company may reasonably require from time to time.

11.2. The Qt Company's Audit Rights
The Qt Company or an independent auditor acting on behalf of The Qt Company's,
may, upon at least five (5) business days' prior written notice and at its
expense, audit Licensee with respect to the Licensee's use of the Licensed
Software, but not more frequently than once during each 6-month period. Such
audit may be conducted by mail, electronic means or through an in-person visit
to Licensee's place of business. Any such in-person audit shall be conducted
during regular business hours at Licensee's facilities and shall not
unreasonably interfere with Licensee's business activities. The Qt Company or
the independent auditor acting on behalf of The Qt Company shall be entitled to
inspect Licensee's Records and conduct necessary interviews of Licensee's
relevant employees and Contractors. All such Licensee's Records and use thereof
shall be subject to an obligation of confidentiality under this Agreement.

If an audit reveals that Licensee is using the Licensed Software beyond scope
of the licenses Licensee has paid for, Licensee agrees to pay The Qt Company
any amounts owed for such unauthorized use within 30 days from receipt of the
corresponding invoice from The Qt Company. In addition, in the event the audit
reveals a material violation of the terms of this Agreement (without
limitation, either (i) underpayment of more than 10 % of License Fees or 10,000
euros (whichever is more) or (ii) distribution of products, which include or
result from Prohibited Combination, shall be deemed a material violation for
purposes of this section), then the Licensee shall pay The Qt Company's
reasonable cost of conducting such audit.

12. TERM AND TERMINATION
12.1. Agreement Term
This Agreement shall enter into force upon due acceptance by both Parties and remain in force for as long as there is any Development License(s) purchased under this Agreement in force (“Term”), unless and until terminated pursuant to the terms of this Section 12.

12.2. Termination and suspension of rights
Either Party shall have the right to terminate this Agreement upon thirty (30) days prior written notice if the other Party commits a material breach of any obligation of this Agreement and fails to remedy such breach within such notice period.

Instead of termination, The Qt Company shall have the right to suspend or withhold grants of all rights to the Licensed Software hereunder, including but not limited to the Development Licenses, Distribution License, and Support, should Licensee fail to make payment in timely fashion or otherwise violates or is reasonably suspected to violate its obligations or terms of this Agreement, and where such violation or breach is not cured within five (5) business days following The Qt Company's written notice thereof.

12.3. Mutual Right to Terminate
Either Party shall have the right to terminate this Agreement immediately upon written notice in the event that the other Party becomes insolvent, files for any form of bankruptcy, makes any assignment for the benefit of creditors, has a receiver, administrative receiver or officer appointed over the whole or a substantial part of its assets, ceases to conduct business, or an act equivalent to any of the above occurs under the laws of the jurisdiction of the other Party.

12.4. Parties Rights and Duties upon Termination
Upon expiry or termination of the Agreement, Licensee shall cease and shall cause all Designated Users (including those of its Affiliates' and Contractors') to cease using the Licensed Software and distribution of the Redistributables under this Agreement.

Notwithstanding the above, in the event the Agreement expires or is terminated:
(i) as a result of The Qt Company choosing not to renew the Development License(s) as set forth in Section 3.1, then all valid licenses possessed by the Licensee at such date shall be extended to be valid in perpetuity under the terms of this Agreement and Licensee is entitled to purchase additional licenses as set forth in Section 10.2; or
(ii) for reason other than by The Qt Company pursuant to item (i) above or pursuant to Section 12.2, then the Licensee is entitled, for a period of six (6) months after the effective date of termination, to continue distribution of Devices under the Distribution Licenses paid but unused at such effective date of termination.

Upon any such termination the Licensee shall destroy or return to The Qt
Company all copies of the Licensed Software and all related materials and will certify the same to The Qt Company upon its request, provided however that Licensee may retain and exploit such copies of the Licensed Software as it may reasonably require in providing continued support to Customers.

Expiry or termination of this Agreement for any reason whatsoever shall not relieve Licensee of its obligation to pay any License Fees accrued or payable to The Qt Company prior to the effective date of termination, and Licensee shall immediately pay to The Qt Company all such fees upon the effective date of termination. Termination of this Agreement shall not affect any rights of Customers to continue use of Applications and Devices (and therein incorporated Redistributables).

12.5. Extension in case of bankruptcy
In the event The Qt Company is declared bankrupt under a final, non-cancellable decision by relevant court of law, and this Agreement is not, at the date of expiry of the Development License(s) pursuant to Section 3.1, assigned to party, who has assumed The Qt Company's position as a legitimate licensor of Licensed Software under this Agreement, then all valid licenses possessed by the Licensee at such date of expiry, and which the Licensee has not notified for expiry, shall be extended to be valid in perpetuity under the terms of this Agreement.

13. GOVERNING LAW AND LEGAL VENUE
In the event this Agreement is in the name of The Qt Company Inc., a Delaware Corporation, then:
   (i) this Agreement shall be construed and interpreted in accordance with the laws of the State of California, USA, excluding its choice of law provisions;
   (ii) the United Nations Convention on Contracts for the International Sale of Goods will not apply to this Agreement; and
   (iii) any dispute, claim or controversy arising out of or relating to this Agreement or the breach, termination, enforcement, interpretation or validity thereof, including the determination of the scope or applicability of this Agreement to arbitrate, shall be determined by arbitration in San Francisco, USA, before one arbitrator. The arbitration shall be administered by JAMS pursuant to JAMS' Streamlined Arbitration Rules and Procedures. Judgment on the Award may be entered in any court having jurisdiction. This Section shall not preclude parties from seeking provisional remedies in aid of arbitration from a court of appropriate jurisdiction.

In the event this Agreement is in the name of The Qt Company Ltd., a Finnish Company, then:
   (i) this Agreement shall be construed and interpreted in accordance with the laws of Finland, excluding its choice of law provisions;
   (ii) the United Nations Convention on Contracts for the International
Sale of Goods will not apply to this Agreement; and
(iii) any disputes, controversy or claim arising out of or relating to
this Agreement, or the breach, termination or validity thereof
shall be finally settled by arbitration in accordance with the
Arbitration Rules of Finland Chamber of Commerce. The arbitration
tribunal shall consist of one (1), or if either Party so requires,
of three (3), arbitrators. The award shall be final and binding and
enforceable in any court of competent jurisdiction. The arbitration
shall be held in Helsinki, Finland and the process shall be
conducted in the English language. This Section shall not preclude
parties from seeking provisional remedies in aid of arbitration
from a court of appropriate jurisdiction.

14. GENERAL PROVISIONS

14.1. No Assignment
Except in the case of a merger or sale of substantially all of its corporate
assets, Licensee shall not be entitled to assign or transfer all or any of its
rights, benefits and obligations under this Agreement without the prior written
consent of The Qt Company, which shall not be unreasonably withheld or delayed.
The Qt Company shall be entitled to freely assign or transfer any of its
rights, benefits or obligations under this Agreement.

14.2. No Third-Party Representations
Licensee shall make no representations or warranties concerning the Licensed
Software on behalf of The Qt Company. Any representation or warranty Licensee
makes or purports to make on The Qt Company's behalf shall be void as to The
Qt Company.

14.3. Surviving Sections
Any terms and conditions that by their nature or otherwise reasonably should
survive termination of this Agreement shall so be deemed to survive. Such
sections include especially the following: 1, 2, 6, 7, 9, 11, 12.4, 13 and 14.

14.4. Entire Agreement
This Agreement, the exhibits hereto, the License Certificate and any applicable
Purchase Order accepted by The Qt Company constitute the complete agreement
between the Parties and supersedes all prior or contemporaneous discussions,
representations, and proposals, written or oral, with respect to the subject
matters discussed herein.

In the event of any conflict or inconsistency between this Agreement and any
Purchase Order, the terms of this Agreement will prevail over the terms of the
Purchase Order with respect to such conflict or inconsistency.

Parties specifically acknowledge and agree that this Agreement prevails over
any click-to-accept or similar agreements the Designated Users may need to
accept online upon download of the Licensed Software, as may be required by
The Qt Company's applicable processes relating to Licensed Software.
14.5. Modifications
No modification of this Agreement shall be effective unless contained in a writing executed by an authorized representative of each Party. No term or condition contained in Licensee's Purchase Order ("Deviating Terms") shall apply unless The Qt Company has expressly agreed such Deviating Terms in writing. Unless and to the extent expressly agreed by The Qt Company, any such Deviating Terms shall be deemed void and with no legal effect. For clarity, delivery of the Licensed Software following the receipt of the Purchase Order including Deviating Terms shall not constitute acceptance of such Deviating Terms.”

14.6. Force Majeure
Except for the payment obligations hereunder, neither Party shall be liable to the other for any delay or non-performance of its obligations hereunder in the event and to the extent that such delay or non-performance is due to an event of act of God, terrorist attack or other similar unforeseeable catastrophic event that prevents either Party for fulfilling its obligations under this Agreement and which such Party cannot avoid or circumvent ("Force Majeure Event"). If the Force Majeure Event results in a delay or non-performance of a Party for a period of three (3) months or longer, then either Party shall have the right to terminate this Agreement with immediate effect without any liability (except for the obligations of payment arising prior to the event of Force Majeure) towards the other Party.

14.7. Notices
Any notice given by one Party to the other shall be deemed properly given and deemed received if specifically acknowledged by the receiving Party in writing or when successfully delivered to the recipient by hand, fax, or special courier during normal business hours on a business day to the addresses specified for each Party on the signature page. Each communication and document made or delivered by one Party to the other Party pursuant to this Agreement shall be in the English language.

14.8. Export Control
Licensee acknowledges that the Redistributables, as incorporated in Applications or Devices, may be subject to export control restrictions under the applicable laws of respective countries. Licensee shall fully comply with all applicable export license restrictions and requirements as well as with all laws and regulations relating to the Redistributables and exercise of licenses hereunder and shall procure all necessary governmental authorizations, including without limitation, all necessary licenses, approvals, permissions or consents, where necessary for the re-exportation of the Redistributables, Applications and/or Devices.

14.9. No Implied License
There are no implied licenses or other implied rights granted under this Agreement, and all rights, save for those expressly granted hereunder, shall
remain with The Qt Company and its licensors. In addition, no licenses or immunities are granted to the combination of the Licensed Software with any other software or hardware not delivered by The Qt Company under this Agreement.

14.10. Attorney Fees
The prevailing Party in any action to enforce this Agreement shall be entitled to recover its attorney's fees and costs in connection with such action.

14.11. Privacy
Licensee acknowledges and agrees that for the purpose of this Agreement, The Qt Company may collect, use, transfer and disclose personal data pertaining to Designated Users as well as any other employees and directors of the Licensee and its Contractors relevant for carrying out the intent of this Agreement. Such personal data may be collected from the Licensee or directly from the relevant individuals. The Parties acknowledge that with regard to such personal data processed hereunder, The Qt Company shall be regarded as the Data Controller under the applicable Data Protection Legislation. The Qt Company shall process any such personal data in accordance with its privacy policies and practices, which will comply with all applicable requirements of the Data Protection Legislation.

14.12. Severability
If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable.

APPENDICES
The Agreement includes Appendix 1, and possibly one or more of the appendices 3-5, depending on the product(s) purchased by the Licensee, what is stated in the quote or invoice, and/or what is stated in the Licensee's License Certificate.

APPENDIX 1
The modules and/or tools that are included in the respective product - Qt for Application Development (QtAD), Qt for Device Creation (QtDC), Qt for MCUs (QtMCU), Qt 3D Studio (Qt3DS) and Qt Design Studio (QtDS) - are marked with 'X' in the below table.

Parts of the product that are permitted for distribution in object-code form only ("Redistributables") are marked with 'R' in the below table.

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In addition to what is provided under the definition of the Licensed Software, Parties agree that Licensed Software shall also include the Add-On Products of The Qt Company, as mentioned in this Appendix, if included in the quote / invoice.

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| Qt MQTT  | X,R |       |       |       |       |
| Qt KNX   | X,R |       |       |       |       |
| Qt OPC UA| X,R |       |       |       |       |
| Qt CoAP  | X,R |       |       |       |       |
| Qt Safe  |     | X,R    | X,R   |       |       |
| Renderer |     |        |       |       |       |
| Qt       |     |        |       |       |       |
| Application Manager |     | X,R    | X,R   |       |       |
| Qt IVI   |     | X,R    |       |       |       |
| Reference UI |     | X,R    |       |       |       |
| Qt GENIVI|     | X,R    |       |       |       |
| Extras   |     |        |       |       |       |
| QML Live |     | X      |       |       |       |
| Qt Creator Deployment |     | X      |       |       |       |
| Qt Creator Plugin for Qt Application Manager |     | X      |       | X     |       |
| Qt       |     |        |       |       |       |
| Automotive Suite Deployment Server |     | X      |       |       |       |
| Qt Design Studio |     | X      |       |       |       |
| Qt 3D Studio GammaRay |     | X      |       |       | X     |
| Platform |     |        |       |       |       |
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The provisions of this Appendix 4 are applicable for Start-up Companies and for the Evaluation Term. For the purpose of this Appendix 4, the following additional definitions shall be applicable:

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(iii) Support is available subject to availability, as judged by The Qt Company at its free and absolute discretion, provided that support will be limited to a maximum of ten (10) tickets during the Trial Term.

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"Term" shall mean a period of twelve (12) months or any such other period as may be agreed between the Parties.

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/*---
 esid: sec-assignment-operators-static-semantics-early-errors
description: Minimal test
---*/

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Bug fix.
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Re-implemented and improved read-write locks;
(with Louis Thomas) re-implemented and improved
condition variables;
enhancements to semaphores;
enhancements to mutexes;
new mutex implementation in 'futex' style;
suggested a robust implementation of pthread_once
similar to that implemented by V.Kliathcko;
system clock change handling re CV timeouts;
bug fixes.
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and TryEnterCriticalSection;
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Borland compiler patch and makefile.
Anuj Goyalanuj dot goyal at gmail dot com
Port to Digital Mars compiler.
Gottlob Freegottlofbfrege at gmail dot com
re-implemented pthread_once (version 2)
(pthread_once cancellation added by rpj).
Vladimir Kliatchkovladimir at kliatchko dot com
reimplemented pthread_once with the same form
as described by A.Terekhov (later version 2);
implementation of MCS (Mellor-Crummey/Scott) locks.
A. HISTORY OF THE SOFTWARE
=================================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
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* Fixed minor IBM xIC compiler build issues
  * Added atomicops for AIX (POWER)

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 * From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
 * Date: Fri, Jun 24, 2011 at 3:20 AM
 * Subject: Re: sqrt routine
 * To: Kevin Ma <kma@google.com>
 * Hi Kevin,
 * Thanks for asking. Those routines are public domain (originally posted to
 * comp.sys.arm a long time ago), so you can use them freely for any purpose.
 * Cheers,
 * Wilco
 *
 * ----- Original Message -----*
 * From: "Kevin Ma" <kma@google.com>
 * To: <Wilco.Dijkstra@ntlworld.com>
 * Sent: Thursday, June 23, 2011 11:44 PM
 * Subject: Fwd: sqrt routine
 * Hi Wilco,
 * I saw your sqrt routine from several web sites, including
 * http://www.finesse.demon.co.uk/steven/sqrt.html.
 * Just wonder if there's any copyright information with your Successive
 * approximation routines, or if I can freely use it for any purpose.
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BezierEasing - use bezier curve for transition easing function
by Gatan Renaudeau 2014 - 2015  MIT License

Credits: is based on Firefox's nsSMILKeySpline.cpp

Usage:
var spline = BezierEasing([ 0.25, 0.1, 0.25, 1.0 ])
spline.get(x) => returns the easing value | x must be in [0, 1] range

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raytrace.js contains code from the the Prototype JavaScript framework, version 1.5.0:

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$GEN_DEPS.c $< | sed 's/\(.*\)\.o : .*/\1.o $@ : '/g' > $@; \n [ -s $@ ] || rm -f $@

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$GEN_DEPS.cc $< | sed 's/\(.*\)\.o : .*/\1.o $@ : '/g' > $@; \n [ -s $@ ] || rm -f $@"
## Versioned libraries rules

```bash
%.SO%.$(SO_TARGET_VERSION_MAJOR): %.SO%.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.SO: %.SO%.$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s %{<F}.$(SO).$(SO_TARGET_VERSION) $@
```

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymblic

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

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
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C++ Big Integer Library
(see ChangeLog for version)

http://mattmccutchen.net/bigint/

Written and maintained by Matt McCutchen <matt@mattmccutchen.net>

You can use this library in a C++ program to do arithmetic on integers of size limited only by your computer's memory. The library provides BigUnsigned and BigInteger classes that represent nonnegative integers and signed integers,
respectively. Most of the C++ arithmetic operators are overloaded for these classes, so big-integer calculations are as easy as:

```cpp
#include "BigIntegerLibrary.hh"

BigInteger a = 65536;
cout << (a * a * a * a * a * a * a * a);
```

(prints 340282366920938463463374607431768211456)

The code in `sample.cc' demonstrates the most important features of the library. To get started quickly, read the code and explanations in that file and run it. If you want more detail or a feature not shown in `sample.cc', consult the actual header and source files, which are thoroughly commented.

This library emphasizes ease of use and clarity of implementation over speed; some users will prefer GMP (http://swox.com/gmp/), which is faster. The code is intended to be reasonably portable across computers and modern C++ compilers; in particular, it uses whatever word size the computer provides (32-bit, 64-bit, or otherwise).

Compiling programs that use the library
---------------------------------------
The library consists of a folder full of C++ header files (`.hh') and source files (`.cc'). Your own programs should `#include' the necessary header files and link with the source files. A makefile that builds the sample program (`sample.cc') is included; you can adapt it to replace the sample with your own program.

Alternatively, you can use your own build system or IDE. In that case, you must put the library header files where the compiler will find them and arrange to have your program linked with the library source files; otherwise, you will get errors about missing header files or "undefined references". To learn how to do this, consult the documentation for the build system or IDE; don't bother asking me. Adding all the library files to your project will work in many IDEs but may not be the most desirable approach.

Resources
---------
The library's Web site (above) provides links to released versions, the current development version, and a mailing list for release announcements, questions, bug reports, and other discussion of the library. I would be delighted to hear from you if you like this library and/or find a good use for it.

Bugs and enhancements
---------------------
The library has been tested by me and others but is by no means bug-free. If you find a bug, please report it, whether it comes in the form of compiling
trouble, a mathematically inaccurate result, or a memory-management bloop (since I use Java, these are altogether too common in my C++). I generally fix all reported bugs. You are also welcome to request enhancements, but I am unlikely to do substantial amounts of work on enhancements at this point.

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#
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src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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That's all there is to it!

1.694 binutils 2.27-41.base.el7_7.1
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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that copy, so the ordinary GNU General Public License applies to all
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
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modification of the work for the customer's own use and reverse
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote it.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and
verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science. Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.
David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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1.703 jackson 1.9.9
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1.704 compat-gnome-desktop314 3.14.2-1.el7

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Die Bezeichnung freie Software bezieht sich auf Freiheit der Nutzung, nicht auf den Preis. Unsere Allgemeinen öffentlichen Lizenzen sollen sicherstellen, dass Sie die Freiheit haben, Kopien freier Software zu verbreiten (und etwas für diesen Service zu berechnen, wenn Sie möchten), dass Sie die Software im Quelltext erhalten oder den Quelltext auf Wunsch bekommen können, dass Sie die Softwarendern oder Teile davon in neuen freien Programmen verwenden dürfen, und dass Sie darüber informiert sind, dass Sie dies alles tun dürfen.

Diese Lizenz, die Kleine Allgemeine öffentliche Lizenz (Lesser General Public License), gilt für einige besonders bezeichnete Software-Pakete typischerweise Programm bibliotheken von der Free Software Foundation und anderen Autoren, die beschlossen, diese Lizenz zu verwenden. Auch Sie können sie verwenden; wir empfehlen aber, vorher gründlich darüber nachzudenken, ob diese Lizenz (LGPL) oder aber die gewöhnliche Allgemeine öffentliche Lizenz (GPL) die bessere Strategie zur Anwendung im jeweiligen speziellen Fall ist. Dabei bieten Ihnen die untenstehenden Erläuterungen eine Grundlage für Ihre Entscheidung.

Um Ihre Rechte zu schützen, müssen wir Einschränkungen machen, die es jedem, der die Software weiter gibt, verbieten, Ihnen diese Rechte zu verweigern oder Sie zum Verzicht auf diese Rechte aufzufordern. Aus diesen Einschränkungen ergeben sich bestimmte Verantwortlichkeiten für Sie, wenn Sie Kopien der Bibliothek verbreiten oder sie verndern.

Beispielsweise müssen Sie den Empfängern alle Rechte gewähren, die wir Ihnen eingeräumt haben, wenn Sie kostenlos oder gegen Bezahlung Kopien der Bibliothek verbreiten. Sie müssen sicherstellen, dass auch die Empfänger den Quelltext erhalten bzw. erhalten können. Wenn Sie einen anderen Code mit der Bibliothek verlinken, müssen Sie den Empfängern die vollständigen Objekt-Dateien zukommen lassen, so dass sie selbst diesen Code mit der Bibliothek neu verlinken können, auch nachdem sie Veränderungen an der Bibliothek vorgenommen und sie neu kompiliert haben. Und Sie müssen ihnen diese Bedingungen zeigen, damit sie ihre Rechte kennen.
Wir schätzen Ihre Rechte in zwei Schritten: (1) Wir stellen die Bibliothek unter ein Urheberrecht (Copyright), und (2) wir bieten Ihnen diese Lizenz an, die Ihnen das Recht gibt, die Bibliothek zu vervielfältigen, zu verbreiten und/oder zu verändern.

Um jeden, der die Software weiter gibt, zu schützen, wollen wir darüber hinaus vollkommen klarstellen, dass für diese freie Bibliothek keinerlei Garantie besteht. Auch sollten, falls die Software von jemand anderem modifiziert und weitergegeben wird, die Empfänger wissen, dass sie nicht das Original erhalten haben, damit irgendwelche von anderen verursachte Probleme nicht den Ruf des ursprünglichen Autors schädigen.

Schließlich und endlich stellen Software-Patente für die Existenz jedes freien Programms eine ständige Bedrohung dar. Wir möchten sicherstellen, dass keine Firma den Benutzern eines freien Programms Einschränkungen auferlegen kann, indem sie von einem Patentinhaber eine die freie Nutzung einschränkende Lizenz erwirbt. Deshalb bestehen wir darauf, dass jegliche für eine Version der Bibliothek erworbene Patentlizenz mit der in dieser Lizenz (also der LGPL) im einzelnen angegebenen Nutzungsfreiheit voll vereinbar sein muss.

Die meisten GNU-Software einschließlich einiger Bibliotheken fällt unter die gewöhnliche Allgemeine öffentliche GNU-Lizenz (GNU-GPL). Die vorliegende Lizenz, also die GNU-LGPL, gilt für gewisse eher bezeichnete Bibliotheken. Sie unterscheidet sich wesentlich von der gewöhnlichen Allgemeinen öffentlichen Lizenz (GNU-GPL). Wir benutzen diese Lizenz für gewisse Bibliotheken, um das Linken (d.h. die Verknüpfung von Bibliotheken und anderen Programmteilen zu einem lauffähigen Programm Anmerkung der übersetzenden) von Programmen, die nicht frei sind, mit diesen Bibliotheken zu gestatten.

Wenn ein Programm mit einer Bibliothek gelinkt wurde, sei es nun statisch oder dynamisch, so ist die Kombination der beiden, rechtlich gesehen, ein kombiniertes Werk, also eine abgeleitete Version der Original-Bibliothek. Die gewöhnliche GPL erlaubt ein solches Linken nur dann, wenn die ganze Kombination die Kriterien für freie Software erfüllt. Die LGPL erlaubt dagegen weniger strenge Kriterien für das Linken von irgendeiner anderen Software mit der Bibliothek.


So kann, wenn auch nur bei seltenen Gelegenheiten, eine besondere Notwendigkeit bestehen, einen Anreiz zur möglichst weitgehenden Benutzung einer bestimmten Bibliothek zu schaffen, so dass dann ein De-facto-Standard wird. Um dies zu erreichen, müssen nichtfreie Programme die Bibliothek benutzen dürfen. Ein häufiger Fall ist der, dass eine Bibliothek dasselbe leistet wie weitgehend benutzte nichtfreie Bibliotheken. In diesem Falle bringt es wenig Nutzen, die freie Bibliothek allein auf freie Software zu beschränken, und dann benutzen wir eben die LGPL.

In anderen Fällen ermöglicht die Erlaubnis zur Benutzung einer speziellen Bibliothek in nichtfreien Programmen viel mehr Leuten, eine umfangreiche Sammlung freier Software zu nutzen. So ermöglicht z.B. die Erlaubnis zur Benutzung der GNU-C-Bibliothek in nichtfreien Programmen einer viel größeren Zahl von Leuten, das ganze GNU-Betriebssystem ebenso wie seine Variante, das Betriebssystem GNU/Linux, zu benutzen.

Obwohl die LGPL die Freiheit des Benutzers weniger schützt, stellt sie doch sicher, dass der Benutzer eines Programms, das mit der Bibliothek gelinkt wurde, die Freiheit und die erforderlichen Mittel hat, das Programm
unter Benutzung einer abgedrungen Version der Bibliothek zu betreiben.</para>

<para>Die genauen Bedingungen für das Kopieren, Weitergeben und Abändern finden Sie im nachstehenden Kapitel. Achten Sie genau auf den Unterschied zwischen "work based on the library", d.h. Werk, das auf der Bibliothek basiert und "work that uses the library" d.h. Werk, das die Bibliothek benutzt. Ersteres enthält Code, der von der Bibliothek abgeleitet ist, während letzteres lediglich mit der Bibliothek kombiniert werden muss, um betriebsfähig zu sein.</para>

</sect1>

<sect1 id="terms" label="none">
<title>Bedingungen für die Vervielfältigung, Verbreitung und Bearbeitung</title>

<sect2 id="sect0" label="0">
<title>Paragraph 0</title>

<para>Diese Lizenz gilt für jedes Programm und jedes andere Werk, in dem ein entsprechender Vermerk des Copyright-Inhabers oder eines anderen dazu Befugten darauf hinweist, dass das Werk unter den Bestimmungen dieser Lesser General Public License (im weiteren auch als "diese Lizenz" bezeichnet) verbreitet werden darf. Jeder Lizenznehmer wird hierin einfach als "Sie" angesprochen.</para>

<para>Eine "Bibliothek" bedeutet eine Zusammenstellung von Software-Funktionen und/oder Daten, die so vorbereitet ist, dass sie sich bequem mit Anwendungsprogrammen (welche einige dieser Funktionen und Daten benutzen) zum Bilden von ausführbaren Programmen (d.h. verbinden, kombinieren) lässt.</para>

<para>Der Begriff "Bibliothek" bezieht sich im weiteren immer nur auf solche Software-Bibliotheken und solche Werke, die unter diesen Bedingungen der Lesser-GPL-Lizenz verbreitet worden sind. Ein "auf der Bibliothek basierendes Werk" bezeichnet die betreffende Bibliothek selbst sowie jegliche davon abgeleitete Bearbeitung im urheberrechtlichen Sinne, also ein Werk, welches die Bibliothek oder einen Teil davon, sei es unverändert oder verändert und/oder direkt in eine andere Sprache übersetzt, enthält. (Im folgenden wird die Übersetzung ohne Einschränkung als "Bearbeitung" eingestuft.)</para>

<para>Unter dem "Quelltext" eines Werks ist seine für das Vornehmen von Veränderungen bevorzugte Form zu verstehen. Fr eine Bibliothek bedeutet "vollständiger Quelltext" den gesamten Quelltext für alle in ihr enthaltenen Bestandteile, für jegliche zu ihr gehörenden Dateien zur Definition von Schnittstellen und schließlich auch für die Skripte, die zur Steuerung der Kompilierung und Installation der Bibliothek benutzt werden.</para>

<para>Andere Handlungen als Vervielfältigung, Verbreitung und Bearbeitung werden von dieser Lizenz nicht berührt; sie fallen nicht in ihren Anwendungsbereich. Das Ausführen eines Programms unter Benutzung der Bibliothek wird nicht eingeschränkt, und die Ausgaben des Programms unterliegen dieser Lizenz nur dann, wenn der Inhalt ein auf der Bibliothek basierendes Werk darstellt (unabhängig davon, dass die Bibliothek in einem Werkzeug zum Schreiben dieses Programms benutzt wurde). Ob dies zutrifft, hängt davon ab, was die Bibliothek bewirkt und was das Programm, das die Bibliothek nutzt, bewirkt.</para>

</sect2>

</sect1>
Sie dürfen auf beliebigen Medien unveränderte Kopien des vollständigen Quelltextes des Programms so, wie sie ihn erhalten haben, anfertigen und verbreiten. Voraussetzung hierfür ist, dass Sie mit jeder Kopie deutlich erkennbar und in angemessener Form einen entsprechenden Copyright-Vermerk sowie einen Haftungsausschluss veröffentlichen, alle Vermerke, die sich auf diese Lizenz und das Fehlen einer Garantie beziehen, unverändert lassen und zusammen mit der Bibliothek jeweils eine Kopie dieser Lizenz weitergeben.

Sie dürfen den eigentlichen Kopier- und Versandvorgang eine Gebühr verlangen. Wenn Sie es wünschen, dürfen Sie auch gegen Entgelt eine Garantie anbieten.

Section 2

Sie dürfen Ihre Kopie(n) der Bibliothek oder irgendeines Teils davon verändern, wodurch ein auf der Bibliothek basierendes Werk entsteht, und Sie dürfen derartige Bearbeitungen unter den Bestimmungen von Paragraph 1 vervielfältigen und verbreiten, vorausgesetzt, dass zusätzlich alle im folgenden genannten Bedingungen erfüllt werden:

- Das Bearbeitungsergebnis muß selbst wieder eine Software-Bibliothek sein.
- Sie müssen die veränderten Dateien mit einem auffälligen Vermerk versehen, der auf die von Ihnen vorgenommene Modifizierung der Dateien hinweist und das Datum jeder Änderung angibt.
- Sie müssen dafür sorgen, daß das Werk als Ganzes Dritten unter den Bedingungen dieser Lizenz ohne Lizenzgebühren zur Verfügung gestellt wird.
- Wenn sich eine Funktionseinheit der bearbeiteten Bibliothek auf eine Funktion oder Datentabelle stützt, die von einem der Funktionseinheit nutzenden Anwendungsprogramm bereitgestellt werden muß, ohne dass sie als Argument erteilt werden müssen, wenn die Funktionseinheit angesprochen wird, dann müssen Sie sich nach bestem Wissen und Gewissen bemühen, sicherzustellen, dass die betreffende Funktionseinheit auch dann noch funktioniert, wenn die Anwendung eine solche Funktion oder Datentabelle nicht bietet, und dass sie den sinnvoll bleibenden Teil ihres Bestimmungszwecks noch ausführt.

(So hat z.B. eine Funktion zum Berechnen von Quadratwurzeln einen von der Anwendung unabhängigen genau definierten Zweck. Deshalb verlangt 2 Absatz d, dass jede von der Anwendung bereitgestellte Funktion oder von dieser Funktion benutzte Tabelle optional sein muß: Auch wenn die Anwendung sie nicht bereitstellt, muß die Quadratwurzelfunktion trotzdem noch Quadratwurzeln berechnen).

Diese Anforderungen gelten für das bearbeitete Werk als Ganzes. Wenn identifizierbare Teile davon nicht von der Bibliothek stammen und vermutlicherweise als unabhängige und gesonderte Werke für sich selbst zu betrachten sind, dann gelten diese Lizenz und ihre Bedingungen nicht für die betreffenden Teile, wenn Sie diese als gesonderte Werke weitergeben. Wenn Sie jedoch dieselben Teile als Teil eines Ganzen weitergeben, das ein auf der Bibliothek basierendes Werk darstellt, dann müssen Sie die Weitergabe dieses Ganzen nach den Bedingungen dieser Lizenz erfolgen, deren Bedingungen für weitere Lizenznehmer somit auf das gesamte Ganze ausgedehnt werden und somit auf jeden einzelnen Teil, unabhängig vom jeweiligen Autor.
Somit ist es nicht die Absicht dieses Abschnittes, Rechte für Werke in Anspruch zu nehmen oder Ihnen Rechte für Werke streitig zu machen, die komplett von Ihnen geschrieben wurden; vielmehr ist es die Absicht, die Rechte zur Kontrolle der Verbreitung von Werken, die auf der Bibliothek basieren oder unter ihrer auszugsweisen Verwendung zusammengestellt worden sind, auszuben.</para>

Ferner bringt auch das einfache Zusammenlegen eines anderen Werkes, das nicht auf der Bibliothek basiert, mit der Bibliothek oder mit einem auf der Bibliothek basierenden Werk auf ein- und demselben Speicher- oder Vertriebsmedium dieses andere Werk nicht in den Anwendungsbereich dieser Lizenz.</para>

Sie können sich für die Anwendung der Bedingungen der gewöhnlichen Allgemeinen öffentlichen GNU-Lizenz (GNU-GPL) statt dieser Lizenz auf eine gegebene Kopie der Bibliothek entscheiden. Um dies zu tun, müssen Sie alle Eintragungen, die sich auf diese Lizenz beziehen, ndern, so da sie nun fr die gewöhnliche GNU-GPL, Version 2, statt fr diese Lizenz (LGPL) gelten. (Wenn eine neuere Version als Version 2 der gewöhnlichen GNU-GPL erschienen ist, können Sie diese angeben, wenn Sie das wnschen.) Nehmen Sie keine anderen Vernderungen in diesen Eintragungen vor.</para>

Wenn diese Vernderung in einer gegebenen Kopie einmal vorgenommen ist, dann ist sie fr diese Kopie nicht mehr rücknehmbar, und somit gilt dann die gewöhnliche GNU-GPL fr alle nachfolgenden Kopien und abgeleiteten Werke, die von dieser Kopie gemacht worden sind.</para>

Diese Option ist ntzlich, wenn Sie einen Teil des Codes der Bibliothek in ein Programm kopieren wollen, das keine Bibliothek ist.</para>

Sie können die Bibliothek (oder einen Teil oder eine Ableitung von ihr, gem Paragraph 2) in Objektcode-Form oder in ausführbarer Form unter den Bedingungen der obigen Paragraphen 1 und 2 kopieren und weitergeben, sofern Sie den vollständigen entsprechenden maschinenslegbaren Quelltext beifügen, der unter den Bedingungen der obigen Paragraphen 1 und 2 kopieren und weitergeben werden muss, das blicherweise zum Austausch von Software benutzt wird.</para>

Wenn die Weitergabe von Objektcode durch das Angebot eines Zugangs zum Kopienabruf von einem angegebenen Ort erfolgt, dann erfüllt das Angebot eines gleichwertigen Zugangs zum Kopieren des Quelltextes von demselben Ort die Anforderung, auch den Quelltext weiterzugeben, obwohl Dritte nicht verplichtet sind, den Quelltext zusammen mit dem Objektc ode zu kopieren.

Wird jedoch ein Werk, das die Bibliothek nutzt, mit der Bibliothek gelinkt, so entsteht ein ausführbares Programm, das ein von der Bibliothek abgeleitetes Werk (weil es Teile der Bibliothek enthält) und kein Werk, das die Bibliothek nutzt. Das ausführbare Programm fllt daher unter diese Lizenz.

Wird ein Werk, das die Bibliothek nutzt, Material aus einer Header-Datei verwendet, die Teil der Bibliothek ist, dann kann der Objektcode fr das Werk ein von der Bibliothek abgeleitetes Werk sein, selbst wenn der Quelltext dies nicht ist. Ob dies jeweils zutrifft, ist besonders dann von Bedeutung, wenn das Werk ohne die Bibliothek gelinkt werden kann oder wenn das Werk selbst eine Bibliothek ist. Die genaue Grenze, von der an dies zutrifft, ist rechtlich nicht genau definiert.

Wenn solch eine Objektdatei nur numerische Parameter, Datenstruktur-Layouts und Zugriffsfunktionen sowie kleine Makros und kleine Inlinefunktionen (zehn Zeilen lang oder krzer) benutzt, dann unterliegt die Benutzung der Objektdatei keinen Beschränkungen, ohne Reksicht darauf, ob es rechtlich gesehen ein abgeleitetes Werk ist. (Ausführbare Programme, welche diesen Objektcode plus Teile der Bibliothek enthalten, fallen jedoch weiterhin unter die Bestimmungen von Paragraph 6.)

Ansonsten kennen Sie, wenn das Werk ein von der Bibliothek abgeleitetes ist, den Objektcode fr das Werk unter den Bedingungen von Paragraph 6 weitergeben. Alle ausführbaren Programme, welche dieses Werk enthalten, fallen ebenfalls unter Paragraph 6, gleichgültig, ob sie direkt mit der Bibliothek selbst gelinkt sind oder nicht.

Als Ausnahme von den Bestimmungen der vorstehenden Paragraphen dfren Sie auch ein Werk, das die Bibliothek nutzt, mit der Bibliothek kombinieren oder linken, um ein Werk zu erzeugen, das Teile der Bibliothek enthält, und dieses unter Bedingungen ihrer eigenen Wahl weitergeben, sofern diese Bedingungen Bearbeitungen fr den eigenen Gebrauch des Empfängers und ein RekTricks (reverse engineering) zum Beheben von Mngeln solcher Bearbeitungen gestatten.

Quelltext der Bibliothek aus, und zwar einschließlich jeglicher in dem Werk angewandter Änderungen (wobei dessen Weitergabe gem den Bedingungen der Paragraphen <link linkend="sect1">1</link> und <link linkend="sect2">2</link> erfolgen muss); und wenn das Werk ein ausführbares, mit der Bibliothek gelenktes Programm ist, dann liefern Sie es zusammen mit dem vollständigen maschinenlesbaren <quote>Werk, das die Bibliothek nutzt</quote>, in Form von Objektkode und/oder Quelltext, so dass der Benutzer die Bibliothek verändern und dann erneut linken kann, um ein verändertes ausführbares Programm zu erzeugen, das die veränderte Bibliothek enthält. (Es versteht sich, dass der Benutzer, der die Inhalte von Definitionsdateien in der veränderten Bibliothek verändert, nicht notwendigerweise in der Lage sein wird, die Anwendung neu zu compilieren, um die veränderten Definitionen zu benutzen.)</para>
</listitem>
</listitem>

</listitem>
</listitem>

Liefern Sie das Werk zusammen mit einem mindestens drei Jahre lang gültigen schriftlichen Angebot, demselben Benutzer die oben in <link linkend="sect6a">Paragraph 6, Absatz (a)</link> genannten Materialien zu Kosten, welche die reinen Weitergabekosten nicht bersteigen, zur Verfügung zu stellen.</para>
</listitem>
</listitem>

Wenn die Weitergabe des Werks dadurch erfolgt, dass die Möglichkeit des Abrufens einer Kopie von einem bestimmten Ort angeboten wird, bieten Sie gleichwertigen Zugang zum Kopieren der oben angegebenen Materialien von dem gleichen Ort an.</para>
</listitem>
</listitem>

Sie vergewissern sich, dass der Benutzer bereits eine Kopie dieser Materialien erhalten hat oder dass Sie diesem Benutzer bereits eine Kopie geschickt haben.</para>
</listitem>
</orderedlist></para>

Für ein ausführbares Programm muss die verlangte Form des <quote>Werks, das die Bibliothek nutzt</quote> alle Daten und Hilfsprogramme mit einschließen, die man braucht, um daraus das ausführbare Programm zu reproduzieren. Doch gilt eine spezielle Ausnahme: Die weiterzugebenden Materialien brauchen nicht alles das zu enthalten, was normalerweise (in Quelltext-Form oder in binärer Form) mit den Hauptbestandteilen (Compiler, Kern usw.) des Betriebssystems, auf denen das ausführbare Programm läuft, weitergegeben wird, es sei denn, das ausführbare Programm gehört selbst zu diesem Hauptbestandteil.</para>

Es kann vorkommen, dass diese Anforderung im Widerspruch zu Lizenzbeschränkungen anderer, proprietärer Bibliotheken steht, die normalerweise nicht zum Betriebssystem gehören. Ein solcher Widerspruch bedeutet, dass Sie nicht gleichzeitig jene proprietären Bibliotheken und die vorliegende Bibliothek zusammen in einem ausführbaren Programm, das Sie weitergeben, verwenden dürfen.</para>

</sect2>
Sie dürfen Bibliotheks-Funktionseinheiten, die ein auf der Bibliothek basierendes Werk darstellen, zusammen mit anderen, nicht unter diese Lizenz fallenden Funktionseinheiten in eine einzelne Bibliothek einbauen und eine solche kombinierte Bibliothek weitergeben, vorausgesetzt, da die gesonderte Weitergabe des auf der Bibliothek basierenden Werks einerseits und der anderen Funktionseinheiten andererseits ansonsten gestattet ist, und vorausgesetzt, da Sie folgende zwei Dinge tun:

Geben Sie zusammen mit der kombinierten Bibliothek auch eine Kopie desselben auf der Bibliothek basierenden Werks mit, die nicht mit irgendwelchen anderen Funktionseinheiten kombiniert ist. Dieses Werk muss unter den Bedingungen der obigen Paragraphen weitergegeben werden.

Weisen Sie bei der kombinierten Bibliothek an prominenter Stelle auf die Tatsache hin, dass ein Teil davon ein auf der Bibliothek basierendes Werk ist, und erklären Sie, wo man die mitgegebene unkombinierte Form desselben Werks finden kann.

Sie dürfen die Bibliothek nicht vervielfältigen, verändern, weiter lizenzieren oder verbreiten oder mit ihr verlinken, sofern es nicht durch diese Lizenz ausdrücklich gestattet ist. Jeder anderweitige Versuch der Vervielfältigung, Modifizierung, Weiterlizenzierung und Verbreitung sowie des Linkens mit der Bibliothek ist unzulässig und beendet automatisch Ihre Rechte unter dieser Lizenz. Doch werden die Lizenzen Dritter, die von Ihnen Kopien oder Rechte unter dieser Lizenz erhalten haben, nicht beendet, solange diese Dritten die Lizenz voll anerkennen und befolgen.

Sie sind nicht verpflichtet, diese Lizenz anzunehmen, da Sie diese nicht unterzeichnet haben. Doch gibt Ihnen sonst nichts die Erlaubnis, die Bibliothek oder von ihr abgeleitete Werke zu verändern oder zu verbreiten. Diese Handlungen sind gesetzlich verboten, wenn Sie diese Lizenz nicht annehmen. Indem Sie die Bibliothek (oder ein darauf basierendes Werk) verändern oder verbreiten, erklären Sie Ihr Einverständnis mit dieser Lizenz, die Ihnen das erlaubt, mit allen ihren Bedingungen bezüglich der Vervielfältigung, Verbreitung und Veränderung der Bibliothek oder eines darauf basierenden Werks.
<para>Jedes Mal, wenn Sie die Bibliothek (oder irgendein auf der Bibliothek basierendes Werk) weitergeben, erhält der Empfänger automatisch vom ursprünglichen Lizenzgeber die Lizenz, die Bibliothek entsprechend den hier festgelegten Bestimmungen zu vervielfältigen, zu verbreiten und zu verändern und mit ihr zu verlinken. Sie drfen keine weiteren Einschränkungen der Ausübung der hierin zugestandenen Rechte des Empfängers vornehmen. Sie sind nicht dafür verantwortlich, die Einhaltung dieser Lizenz durch Dritte durchzusetzen.</para>

<sect2 id="sect11" label="11">
<title>Paragraph 11</title>

<para>Sollten Ihnen infolge eines Gerichtsurteils, des Vorwurfs einer Patentverletzung oder aus einem anderen Grunde (nicht auf Patentfragen begrenzt) Bedingungen (durch Gerichtsbeschluss, Vergleich oder anderweitig) auferlegt werden, die den Bedingungen dieser Lizenz widersprechen, so befreien diese Umstände Sie nicht von den Bestimmungen dieser Lizenz. Wenn es Ihnen nicht möglich ist, die Bibliothek unter gleichzeitiger Beachtung der Bedingungen in dieser Lizenz und Ihrer anderweitigen Verpflichtungen zu verbreiten, dann dren Sie als Folge davon die Bibliothek herzumte nicht weitergeben. Wenn zum Beispiel ein Patent nicht die gebührenfreie Weiterverbreitung der Bibliothek durch diejenigen erlaubt, welche die Bibliothek direkt oder indirekt von Ihnen erhalten haben, dann besteht der einzige Weg, sowohl dem Patentrecht als auch dieser Lizenz zu gingen, darin, ganz auf die Verbreitung der Bibliothek zu verzichten.</para>

<para>Sollte sich ein Teil dieses Paragraphen als ungültig oder unter bestimmten Umständen nicht durchsetzbar erweisen, so soll dieser Paragraph seinem Sinne nach angewandt werden; im brigen soll dieser Paragraph als Ganzes gelten.</para>

<para>Zweck dieses Paragraphen ist nicht, Sie dazu zu bringen, irgendwelche Patente oder andere Eigentumsansprüche zu verletzen oder die Gültigkeit solcher Ansprüche zu bestreiten; dieser Paragraph hat vielmehr einzig den Zweck, die Integrität des Verbreitungssystems der freien Software zu schützen, das durch die Praxis öffentlicher Lizenzen verwirklicht wird. Viele Leute haben grozige Beiträge zu dem weitreichenden Angebot der durch dieses System verbreiteten Software im Vertrauen auf die konsistente Anwendung dieses Systems geleistet; es obliegt dem Autor bzw. Geber, zu entscheiden, ob er die Software mittels irgendeines anderen Systems verbreiten will; ein Lizenznehmer jedoch darf daruber nicht entscheiden.</para>

<para>Dieser Paragraph ist dazu gedacht, deutlich klar zu stellen, was als Konsequenz aus den brigen Bestimmungen dieser Lizenz zu betrachten ist.</para>

<sect2 id="sect12" label="12">
<title>Paragraph 12</title>

<para>Wenn die Verbreitung und/oder die Benutzung der Bibliothek in bestimmten Staaten entweder durch Patente oder durch urheberrechtlich geschützte Schnittstellen eingeschränkt ist, kann der Urheberrechtsinhaber, der die Bibliothek unter diese Lizenz gestellt hat, eine explizite geographische Begrenzung der Verbreitung angeben, in der diese Staaten ausgeschlossen werden, so dass die Verbreitung nur innerhalb und zwischen den Staaten erlaubt ist, die nicht demgem ausgeschlossen sind. In einem solchen Fall beinhaltet diese Lizenz die Beschränkung, als wern sie in diesem Text niedergeschrieben.</para>

<sect2 id="sect13" label="13"/>
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<quote>Bortszvegek</quote> olyan rvid szvegszek, melyek Cmlapszvegknt, illetve Htlapszvegknt kerlnek felsorloks a kzlmenynben, amely szerint a <link linkend="fdl-document">Dokumentum</link> a jelen Licenc hatlya alatt lett kiadva.</para>

<quote>tltsz</quote> pldnya olyan gppel olvashat vltozatot jelent, amely a nyilvnoz szmra hozzfrhet formtumban kerl terjesztse, tovbv amelynek tartalma alkalmas a szokvnyos szvegszerkeszt-programokkal, illetve (pixelekbel ii kpek esetn) szokvnyos kpmegjelent-programokkal, vagy (rajzok esetn) itlnosan hozzfrhet rajzprogramok segtsgvel azonnali s kvetlen vltoztatskra; tovbv olyan formtumban mel a szvegszerkesztke val bevitelre, vagy a szvegszerkesztke Ital kezelt formtumokra val automatikus taaktba. Egy olyan, egybknt tltsz formtumban kszt plny, melynek a jellnylvet vagy ennek hinya gy lett kialakva, hogy megakadlyozza, vagy elntorsa az olvaskat minden tovbv mdostlt, nem tekinthet tltsznak. A nem <quote>tltsz</quote> plnyok az <quote>tltszatlan</quote> megnevezst kapjk.</para>

Azt tltszsg kritriumaink megfelel formtumok kzt meggtallhat pldul a jellnylvet nem hasznl egyszer ASCII, a Texinfo beviteli formtum, a LaTeX beviteli formtum, az SGML vagy az XML egy Itlnosan hozzfrhet DTD hasznlatval, s a szabvnak megfelel, emberi mdostsra tervezett egyszer HTML, PostScript vagy PDF. tltsz kpfornutumokra plda a PNG, XCF s a JPG. Az tltszatlan formtumok kz sorolhak a a szemelmi tulajdon kpez formtumok, amelyeket csak szemelmi tulajdon kpez szvegszerkesztkekkel lehet elolvasi, az olyan SGML vagy XML, amelyhez a szksz DTD s/vagy egyb feldolgoz eszkzk nem ltlnosan hozzfrhet, s az olyan giple generlt HTML, PostScript vagy PDF formtum, amely kizrlag egyes szvegszerkesztke kimeneti formtumaknt II el.</para>

Egy nyomtatott knyv esetben a <quote>Cmlap</quote> magt a cmlapot, illetve brmely ahol kiegzt tovbb oldalt jelli, amely a jelen Licencben elt cmlaptartalom kzztelt szksz. Az olyan formtum munkknl, amelyek nem rendelkeznek effajta cmlappal, a <quote>Cmlap</quote> a munka cmnek legjobban kiemelt vltozathoz legkezelebb es, m a szegv trzst megel szvegszeket jelli.</para>

<title>SZ SZERINTI SOKSZOROSTS</title>

Az olyan flknek lehetsge van a <link linkend="fdl-document">Dokumentum</link> kereskedelmi, vagy nem kereskedelmi jelleg sokszorostsra s terjesztse a felhasznlt adathordz pustl fggetlenl, feltve, hogy a jelen Licenc, a szerzi jogi fgylmezetts, tovbv a Dokumentumot a jelen Licenc hatlya al rendel kzlmeny minden plndnyban egyart megjelenik, s hogy ezeken kvl semmilyen feltelt nem szab meg a szveghz. Nem alkalmazhat olyan technikai eszkzket, amelyekkel megakadlyozhat vagy szablyozhat az n Ital terjesztett plndnyok elolvassa vagy sokszorosts. Mindazonalt elfogadhat ellenszolgltatást a msolatkrt cserbe. Amennyiben az n Ital terjesztett plndnyek szma meghalad egy bizonyos mennyisget, gy a <link linkend="fdl-section3">3. szakasz</link> feltteleinek is eleget kell tennie.
<para>A fenti feltetteket betartva kicsi szövetet is pldn yokat, de akár nyilvánosan is késztheteti a szövetet.</para>

<title>SOKSZOROSTS NAGYOBB MENNYISÉGBEN</title>

<para>Aennyiben 100-nl tbb nyomtatott pldnnyt (vagy olyan adathordozón talthat pldnnyokat, amelyeknek jellemzően van nyomtatott cmlapjuk) tesz kzz a <link linkend="fdl-document">Dokumentumb</link>, s a dokumen Licence feltett szabája a Bortszovegek meglitt, gy minden egyes pldnnyt kteles ellti olyan bortlapokkal, amelyeken a kvetkez <link linkend="fdl-cover-texts">Bortszovegek</link> tisztn s olvashatan fel vannak tntetve: Cmlapszovegek a cmlapon, illetve Htlapszovegek a htlapon. Mindkbt bortlapra egyértelmű s olvashatan r kell vezetnie a kiad, vagyis jelen esetben az n nevt. A cmlapon a Dokumen teljes cmnek szerepelnie kell, s a cm minden szavnak egyforma kiemeltnek s lthatnak kell lennie. Ezen fell, belten szerint, tovbbi rszleteket is hozzadhat a bortlapokhoz. Aennyiben az esetleges mdostok kizrlag a bortlapokat rintik, s feltve, hogy a <link linkend="fdl-document">Dokumen</link> cm eloztatlan marad, tovbb a bortlapok megfelelnek minden egyb kvetelmenek, gy a sokszorosts ettl eltekintve sz szerinti sokszorostsnak minsl.</para>

<para>Abban az esetben, ha a bortlapok brmelyiknek megkvetelt szövegek tlt hossznak bizonyulnak az olvashat kzztelhez, gy csak az elsnt felsoroltakat kell feltntetnie (aennyi jzan belts szerint elt) a tnleges bortn, a tovbbiak pedig tkelhentekre a kvetkez oldalakra.</para>

<para>Amennyiben 100-nl tbb <link linkend="fdl-transparent">tltszatlan</link> pldnnyt tesz kzz, vagy terjeszt a <link linkend="fdl-document">Dokumentumb</link>, gy kteles vagy egy gppel olvashat <link linkend="fdl-transparent">tltsz</link> pldnnyban egy, a mdostatlan tltsz pldnnyt tartalmaz olyan szmtp-hlzat elhetsgét, amely elhets az Italos hltz felhasznl szmra, s onnan nyilvnszavbn hltzati protokollok segtsgel a Dokumen hozzadott anyagok nkli, teljes eloztata letlthet. Ha az utbbi lehetsget vlasztja, kteles gondoskodni arrl, hogy attl a napel kezdve, amikor az utols tltzatlan pldn ny terjesztse kerlt (akr kvtlenl n ltal, akr kiskereskedelmi forgalomban), a fenti helyen kztett tltsz pldn ny mg legalbb egy vig hozfrhet legyen a felhasznl szmra.</para>

<para>Megkjt, mde nem ktelezzk nt arra, hogy minden esetben, amikor nagyobb pldnyszrm terjesztse kezd, mr jval ezt megelzen lpjen kapcsolatba a <link linkend="fdl-document">Dokumen</link> szerizvel, annak rdekben, hogy megkaphassa tlk a Dokumen esetleges jbb eloztatt. </para>

<title>MDOOSTSOK</title>

<para>A mennek lehetsge van a <link linkend="fdl-document">Dokumen</link> <link linkend="fdl-modified">Mdostott</link> Vltozatnak sokszorostsra s terjesztse a <link linkend="fdl-section2">2.</link> s <link linkend="fdl-section3">3.</link> szakaszok fenti rendelkezsei alapjn, feltve, hogy a Mdostott Vltozatot kizrlag jelen Licenc felteteivel sszhangban teszi kzz, ahol a Mdostott Vltozat a Dokumen szerept tlti be, eztlt lehetsget biztostva annak terjesztse s mdostsra brkinek, aki csak hozzjut egy pldnnyoz. Mindezen fell, a Mdostott Vltozat az albki kvetelmenyeknek is meg kell, hogy feleljen:</para>

<itemizedlist mark="upper-alpha">

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A <link linkend="fdl-title-page">Cmlapon</link> (s ha van, a korton k) ntessen fel egy a <link linkend="fdl-document">Dokumentum</link>, illetve brmely korbbi vlozattnl eltr cm (amelyeknek, ha vannak, a Dokumen Elzmnyek szakaszban kell szerepelni). Egy korbbi vlozat cmt csak akkor hasznhatja, ha annak
szerze engedlyezte azt.</para>
</listitem>

</listitem>

<p>

A <link linkend="fdl-title-page">Cmlapon</link> szerzkknt sorolja fel a <link linkend="fdl-modified">Mdstott Vltzathan</link> elvgzett vltztatsokt felels termszetes vagy jogi szemlyeket, tovbb a <link linkend="fdl-document">Dokumentum</link> f szerzi kz legkevesebb tt (vagy mindet, ha tnl kevesebben vannak) kivve, ha ezen felttel all k nt felmentik.</p>
</listitem>

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<p>

A <link linkend="fdl-title-page">Cmlapon</link> a <link linkend="fdl-modified">Mdstott Vltzat</link> kzztetlrt felels szemly tntesse fel kiadkn.</p>

</listitem>

<p>

A <link linkend="fdl-document">Dokumentum</link> sszes szerzi jogi figyelmeztetst hagyja rintetlenl.</p>

</listitem>

<p>

Sajt mdostsaira vonatkozan is tegyen kz egy szerzi jogi megjegyzst, a tbbi ilyen jelleg figyelmeztets mellett.</p>

</listitem>

<p>

Rgttn a szerzi jogi figyelmeztetseket kveten tntessen fel egy kzlemnnyt, az albbi Fggel mintjra, amelyben engedlyezi a <link linkend="fdl-modified">Mdstott Vltzat</link> felhasznlst a jelen Licenc feltteleinek megfelelen.</p>

</listitem>

<p>

A fenti kzlemnnyben hagyja rintetlenl a <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszok s a szksges <link linkend="fdl-cover-texts">Bortszvegek</link> a jelen <link linkend="fdl-document">Dokumentum</link> licencben elrt teljes listjt.</p>

</listitem>

<p>

Mellkelje a jelen Licenc egy eredeti pldnyt.</p>

</listitem>

<p>

Az <quote>Elzmnyek</quote> elnevez szakaszt, illetve annak cmt szintn hagyja rintetlenl, emellett adjon hozz egy j elemet, amely minimlsan tartalmazza a <link linkend="fdl-modified">Mdstott Vltzat</link> cmt, kiadsi vt, tovbb az j szerzk, illetve a kiad nevt, a <link linkend="fdl-title-page">Cmlapon</link> lthatkhzo hasonlan. Amennyiben a <link linkend="fdl-document">Dokumentum</link> nem tartalmaz semmifile <quote>Elzmnyek</quote> elnevez szakaszt, gy hozzon ltre egyet, amely tartalmazza a Dokumentum cmt, kiadsi vt, tovbb a szerzk, illetve a kiad nevt, a Cmlaponthatkhzo hasonlan; majd ezt kveten adjon hozz egy j, a Mdstott
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- Ne tegyen vltoztatsokat a <link linkend="fdl-document">Dokumentumban</link> megadott <link linkend="fdl-transparent">tltsz pldny</link> nyilvnos hlzati elrhetsgt (ha van ilyen) illeten, vagy hasonlkpp, a Dokumentum alapjul szolgl korbbi vltozatok hlzati helyre vonatkozan. Ezek az <quote>Elznmnyek</quote> szakaszbann is szerepelhetnek. Csak abban az esetben hagyhajta el egyes korbbi vltozatok hlzati elrhetsgt, ha azok legkevesebb ng vvel a Dokumentum elt kzltek, vagy ha maga az alkot engedlyzei azt.

- Ne nevezzen t semmilyen ltez szakaszt <quote>Hozzjruls</quote> elnevezsre, vagy olyasmire, amely cmben a <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszokkal tkzhet.

- Ne nevezzen t semmilyen ltez szakaszt <quote>Hozzjruls</quote> elnevezsre, vagy olyasmire, amely cmben a <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszokkal tkzhet.

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- Ha a <link linkend="fdl-modified">Mdostott Vltozat</link> j bevezet szakaszokat tartalmaz, vagy olyan fggelkeket, melyek <link linkend="fdl-secondary">Msodlagos szakasznak</link> minslnek, m nem tartalmaznak a Dokumentumbl szrmaz anyagot, abban az esetben, beltsa szerint, e szakaszok nmelyikt, vagy akr az sszet besorolhatja nem vltoztathatkat. Ehhez nem kell mst tennie, mint felsorolni a szban forg cmeket a <link linkend="fdl-invariant">Mdostott Vltozat</link> licencnek Nem Vltoztathat szakaszok listjban. E cmeknek hatrozottan el kell klnlnie minden egyb szakaszcmtl.

- Ha a <link linkend="fdl-modified">Mdostott Vltozat</link> j bevezet szakaszokat tartalmaz, vagy olyan fggelkeket, melyek <link linkend="fdl-secondary">Msodlagos szakasznak</link> minslnek, m nem tartalmaznak a Dokumentumbl szrmaz anyagot, abban az esetben, beltsa szerint, e szakaszok nmelyikt, vagy akr az sszet besorolhatja nem vltoztathatkat. Ehhez nem kell mst tennie, mint felsorolni a szban forg cmeket a <link linkend="fdl-invariant">Mdostott Vltozat</link> licencnek Nem Vltoztathat szakaszok listjban. E cmeknek hatrozottan el kell klnlnie minden egyb szakaszcmtl.

- Ha a <link linkend="fdl-modified">Mdostott Vltozat</link> j bevezet szakaszokat tartalmaz, vagy olyan fggelkeket, melyek <link linkend="fdl-secondary">Msodlagos szakasznak</link> minslnek, m nem tartalmaznak a Dokumentumbl szrmaz anyagot, abban az esetben, beltsa szerint, e szakaszok nmelyikt, vagy akr az sszet besorolhatja nem vltoztathatkat. Ehhez nem kell mst tennie, mint felsorolni a szban forg cmeket a <link linkend="fdl-invariant">Mdostott Vltozat</link> licencnek Nem Vltoztathat szakaszok listjban. E cmeknek hatrozottan el kell klnlnie minden egyb szakaszcmtl.
termszetes vagy jogi személy csak s kizrlag egy Cmlapszveg s egy Htlapszveg rszt adhat (akr kzvettn keresztf) a 
Dokumentumhoz. Ha a <link linkend="fdl-document">Dokumentum</link> mr rendelkezik Bortszveggel ehhez a 
vltzoathoz, mert korban n adta hozz, vagy az a szervezet, amelynek nevben n fellp, akkor nem adhat hozz msik 
Bortszveget; a rgit mindazontal lecserélheti, abban az esetben, ha az azt hozzad korbbi kiad egyértelen 
engedelyezi.)</para>

A kzs <link linkend="fdl-document">Dokumentum</link> szerzi s kiadi ezzel a Licenccel nem jrulnak 
hozz nevk felhasznlsra, a <link linkend="fdl-modified">Mdstott Vltoztat</link> <link linkend="fdl-document">Dokumentum</link> 
hrszerstsre, s nem tmogatjuk azt.</para>

KOMBINLT DOKUMENTUMOK

A kzs <link linkend="fdl-document">Dokumentum</link> szerzi s kiadi ezzel a Licenccel nem jrulnak 
hozz nevk felhasznlsra, a <link linkend="fdl-modified">Mdstott Vltoztat</link> <link linkend="fdl-document">Dokumentum</link> 
hrszerstsre, s nem tmogatjuk azt.

KOMBINLT DOKUMENTUMOK

A kombinlt munknak a jelenLicenc mindssze egy plndyt kell tartalmaznia, az egymssal tfdsben lv <link 
linkend="fdl-section4">4. szakasz</link> mdstott vltzoatkora vonatkoz 
rendelkezesei alapjn, felfte, hogy a kombinci mdosts nkl tartalmazza az eredeti dokumentumok sszes <link 
linkend="fdl-invariant">Nem Vltoztathat</link> Nem Vltoztathat szakasz, s hogy azok mind Nem Vltoztathat szakaszknt kerlnk 
felsorolrsa a kombinlt munka licencben, s tartalmazzk a hozzjuk tartoz Garancik Kizrsait is.)</para>

A kombinlt munkban az eredeti dokumentumok sszes <quote>Elzmnyek</quote> elnevez szakaszt sze 
kell olvasztania, miitl egy szszegf <quote>Elzmnyek</quote> elnevez szakasz jn ltre; hasonlkpp kell eljrnia a 
<quote>Ksnetnyilvnts</quote>, illetve az <quote>Ajnlsok</quote> elnevez szakaszok tekintetben. Ugyanakkor minden 
<quote>Hozzjruls</quote> elnevez szakasznak trlnie kell. )</para>

Tetszse szerint ki is emelhet egy meghatrzott dokumentumot a gyjemnybl, tovbb terjesztheti azt jelen 
Licenc feltelletei alapjn, felfte, hogy a szban forg dokumentumhoz mellkeli a jelen Licenc egy plndyt, s minden egyb 
tekintetben betartja jelen Licenc elrsait a dokumentum sz szerinti sokszorostsra vonatkozan.</para>

SSZEFZS FGGETLEN MUNKKKAL

A <link linkend="fdl-document">Dokumentum</link> s annak szmazkainak klnl, vagy fggetlen 
dokumentumokkal, illetve munkkkal val sszefzse egy kzs trolsi, vagy terjesztsi egysgen 
<quote>gyjemnynek</quote> nevezend, amennyiben az sszefz eredmnyekppen rvnyes szerzi jogi felttelek nem
korltozzk nagyobb mrtkben az sszefzs felhasznlnak jogait, mint amennyire azt az egyes szzetevk teszik. Amikor a Dokumentum rsze egy gyjtemnynek, akkor a jelen Licenc nem rvnyes a gyjenmy azon rszeire, amelyek nem a Dokumentumbl szrmaztatott munkk. Amennyiben a <link linkend="fdl-section3">3. szakasz</link> Bortszvegekre vonatkoz rendelkezseit alkimazhat a Dokumentum e pldnyaira, s a Dokumentum a teljes sszegzsnek kevesebb, mint felt teszi ki, gy a Dokumentum Bortszvegeit olyan mdon is el lehet helyezni a bortkon, hogy azok csak magt a Dokumentumot fogj krezre, vagy a bortknak megfelel elektronikus formban, amennyiben a Dokumentum elektronikus formban tallik. Minden ms esetben a teljes sszegzs bortlapjain kell feltntetni a fenti szvegeket.</para>

<sect1 id="fdl-section8" label="8">
<title>FORDTS</title>
<para>A fordts egyfajta mdostsnak tekinthet, gy a <link linkend="fdl-document">Dokumentum</link> lefordtott pldnyai a <link linkend="fdl-section4">4. szakasz</link> rendelkezse alapjn terjeszthetk. A <link linkend="fdl-invariant">Nem Vltoztathat</link> szakaszok lefordtshoz kln engedlyt kell krni a szerzi jogtulajdonostl, mindazonltal kszthetk a lefordott vltotatok is gy, ha az eredeti Nem Vltozathat szakaszokat is belefoglalja a munkba. E Licenc lefordtsra, valamint minden, a Dokumentumhoz tartoz Licencmellketre, illetve az esetleges Garancik Kizrsaira ugyanezek a felttelek rvnyesek, vagyis a lefordott vltotatok csak akkor jelenhetnek meg, ha mellette ott vannak az eredeti, angol nyelv Licenc, a mellkletek s kizrsok szvegei is. Amennyiben eltrs mutatkozna az eredeti vltotatok, illetve a fordts kzt, gy a Licenc, a mellkletek s kizrsok angol nyelv eredetije tekintend mrvadnak.</para>
</sect1>

<sect1 id="fdl-section9" label="9">
<title>MEGSZNS</title>
<para>A jelen Licencben egyrtelmen kijellt kereteken kvl tilos a <link linkend="fdl-document">Dokumentum</link> brminem sokszorostsa, mdostsa, tovbblicencelse, vagy terjesztte. Minden ezzel szembeni sokszorostsi, mdosti, tovbblicencielsi, vagy terjesztsi ksrlet a jelen Licencben meghatrozott jogok automatikus megsznt vonja maga utn. Ugyanakkor azok a felek, akik nn keresztjutottak msolathoz vagy jogosultsgokhoz, nem veszik el azokat, amg maradktalanul betartjik e Licenc elrsait.</para>
</sect1>

<sect1 id="fdl-section10" label="10">
<title>JELEN LICENC JVBENI JAVTSAI</title>
</system>
Ha a jelen Licencet egy n tal rt dokumentumban kvnja hasznlni, akkor mellkelje hozz a Licenc egy pldnnyt, tovbb vezesse r az albbi szerzi jogi s licencklemnyeket, rgtn a cmlapot kveten:

<blockquote>
<para>Copyright (C) V AZ N NEVE.</para>
<para>Engedlyt adunk nnek a jelen dokumentum sokszorostsra, terjesztsre s/vagy mdostrsa a Free Software Foundation tal kiadott GNU FDL 1.1-es, vagy brmely azt kvet verzijnak felttelei alapjn. Nics <link linkend="fdl-invariant">Nem Vltoztathat</link> szakasz, nincs <link linkend="fdl-cover-texts">Cmlapszveg</link>, nincs <link linkend="fdl-cover-texts">Htlapszveg</link>. A jelen licenc egy pldnnyt a <quote>GNU Free Documentation License</quote> elnevezs szakasz alatt tallja.</para>
</blockquote>

Amennyiben ninesenek <link linkend="fdl-invariant">Nem vltoztathat szakaszok</link>, akkor ahelyett a rsz helyett, hogy melyek nem vltoztathatatnak, rj azt, hogy <quote>Nem tartalmaz Nem vltoztathat szakaszokat</quote>. Amennyiben ninesenek <link linkend="fdl-cover-texts">Cmlapszvegek</link>, akkor <quote>Cmlapszveg felsorol</quote> helyett, rja azt, hogy <quote>Cmlapszveget nem tartalmaz</quote>; hasonlanjrjon e a <link linkend="fdl-cover-texts">Htlapszveg</link> esetben.

Amennyiben a dokumentum nem egyrtelm programkdpldkat is tartalmaz, gy azt javasoljuk, hogy e pldkat egy vlasztsa szerinti szabad szoftver licenc alatt kzlje mint pldkat a <ulink type="http" url="http://www.gnu.org/copyleft/gpl.html"> GNU General Public License</ulink> -hoz lehetv tegye a kdok szabad szoftverekben vaalkalmazst.

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<para><quote></quote>, <link linkend="fdl-invariant"> </link>.</para>

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<link linkend="fdl-invariant"> </link> , <link linkend="fdl-secondary"> </link> , , , , , .</para>

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<para><quote></quote>, <link linkend="fdl-modified"> </link> </para>

---

<para><quote></quote>; <quote></quote> - <link linkend="fdl-modified"> </link> .</para>

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<sect1 id="fdl-section5" label="5">
<title>' </title>
<para>  ' <link linkend="fdl-document"></link>   ,     ,   ,   <link linkend="fdl-section4"> 4</link>.  ,     '   <link linkend="fdl-invariant"> </link>             ' ,     .</para>

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<sect1 id="fdl-section6" label="6">
<title> </title>
<para>      <link linkend="fdl-document"></link>   ,      ,             ,   ,     .</para>

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<sect1 id="fdl-section7" label="7">
<title>   </title>
<para> <link linkend="fdl-document"></link>,   ,                   <quote></quote>,  ,         ,        .     ,         ,       .</para>

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<sect1 id="fdl-section8" label="8">
<title></title>
<para>      <link linkend="fdl-document"></link>     ,   <link linkend="fdl-section4"> 4</link>.  <link linkend="fdl-invariant"> </link>        ,            ( )  .          ,       ,                .               .</para>

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<sect1 id="fdl-section9" label="9">
<title></title>
<para>      <link linkend="fdl-document"></link>     ,   <link linkend="fdl-section4"> 4</link>.  <link linkend="fdl-invariant"> </link>        ,            ( )  .          ,       ,                .               .</para>
A legtöbb szoftver licencéi azzal a szándékot hirdetik, hogy mind lehetséget adjanak a szoftver megváltoztatásra és terjesztésére. Ezzel szemben a GNU GPL clja, hogy garantálja a szabad szoftver módosításnak és terjesztésnek szabadsgát, ezáltal biztosítva a szoftver szabad felhasználhatóság minden felhasználó számára.
vonatkoznak a Free Software Foundation legbบกร szoftverre, illetve minden olyan programra, melynek szerzje gy dnt, hogy ezt hasznla a szerzi jog megjellsekor. (A Free Software Foundation egyes szoftvereire a GNU LGPL rvnyes.)

A szabad szoftver megjells nem jelenti azt, hogy a szoftvernek nem lehet ra. A GPL licencek eljára, hogy garantlja a szabad szoftver msonatainak szabad terjesztst (s e szolgltatsrt akr dj felszmtst), a forrskd elhetsgt, hogy brki szabadon mdothassa a szoftvert, vagy felhasznlna a riszt j szabad programokban; s hogy msok megismerhssk ezt a haszngat.

A szerz jogainak vdelmben korltozsokat kell hozni, amelyek megtiltjik, hogy brki megtagadhassa ezeket a jogokat msoktl, vagy ezekrl val lemondsra knyszertsen brki mst. Ezek a megszorstok bizonyos felelssgeket jelentenek azok szmra, akik a szoftver msonatait terjesztik vagy mdostjik.

Ha valaki pldul ilyen program msonatait terjeszt, akr ingyen vagy bizonyos szeg fejben, a szoftverre vonatkoz minden jogot tobb kell adnia a fogad feleknek. Biztostani kell tovbb, hogy megkapj vagy legalbbis megkapassk a forrskdot is. s persre ezeket a licencfeltteleket is el kell juttatni, hogy tisztban legyenek a jogaikkal.

A jogok vdelme kt lpsbl ll:  

- a szoftver szerzi jogainak vdelmbl s
- a jelen licenc biztostsbl, amely jogalapot biztost a szoftver msonsra, terjesztstre s/vagy mdostsra.

Az egyes szerzk s a magunk vdelmben biztostani akarjuk, hogy mindenki megrtse: a jelen szabad szoftverre nincs jtlls. Ha a szoftvert mdostottk s tovbadtk, akkor mindenekinek, aki a mdostott vltotat kapja, tudnia kell, hogy az nem az eredeti, gy a msok ltal okozott hibknak nem lehet hatsa az eredeti szerz hrnevre.

Vgl, a szabad szoftver lt llandan fenyegetik a szoftverszabadalmak. El szeretnkr kerlni annak veszlyt, hogy a szabad program terjeszt szabadalmak jegyezhesesnek be r, eztlal sajt szellemi tulajdnt kpezv tegyk a programot. Ennek megelzhez tisztni kvnjuk: szabadalom szabad szoftverrel kapcsolatban csak mindenki Itali szabad hasznlatra jegyezhet be, vagy egytlaln nem jegyezhet be.

A msonsra, terjesztstre, mdostsra vonatkoz pontos szablyok s felttelek:

A MSOLSRA, TERJESZTSRE S MDOSTSRA VONATKOZ FELTTELEK S KIKTSEK

Ez a licenc minden olyan programra vagy munkra vonatkozik, amelynek a szerzi jogn megjegyzsben a jog tulajdonosa a kvetkez szveget helyezte el a GPL-ben foglaltak alapjn terjeszthet. Az albbiakban a kifejezv brmely ilyen programra vagy munkra vonatkozik, a Programon alapul munka
pedig magt a programot vagy egy szerzi joggal vdett munkt jelenti: vagyis olyan munkt, amely tartalmazza a
programot vagy annak egy rszlett, mdostottan vagy mdostatlanul s/vagy ms nyelvre fordva. (Az albiakban a forrts
minden egyb megkts nlkl beletartozik a <quote>mdosts</quote> fogalmba.) Minden engedlyezs cmzettje
<quote>n</quote>.<para>

A jelen licenc a msolson, terjesztsen s mdostson kvl ms tevkenysgre nem vonatkozik, azok a hatlyn kvl
esnek. A Program futtatsa nincs korltozva, illette a Program kimenetre is csak abban az esetben vonatkozik ez a
szablyozs, ha az tartalmaza a Programon alapul munka egy rszlett (fggetlenl attl, hogy ez a Program futtatsval jtt-e
ltre). Ez teht a Program mkdstl fgg.<para>

Felszmthat dj a msolat fizikai tovbbtsa fejben, illette ellenszolgltats fejben a Programhoz garancilis
tmogats is biztosthat.<para>

A Program forrskdja mdosts nlkl msolhat s brmely adathordozn terjeszthet, feltve, hogy minden egyes
pldnyon pontosan szerepel a megfelel szerzi jogi megjegyzsz, illette a garanciavllals elutasta; rintetlenl kell hagyni
minden erre a szablyozsra s a garancia teljes hinya utal szveget s a jelen licencdokumentumot is el kell juttatni
mindazokhoz, akik a Programot kapjk.<para>

A Program vagy annak egy rsze mdosthat, gy a Programon alapul munka jn ltre. A mdosts ezutn az <link
linkend="sect1">1. szakasz</link> adott felttelek szerint tovbb terjeszthet, ha az albbi felttelek is teljesnksz:
<orderedlist numeration="loweralpha">
    <listitem>
        <para>A mdostott fjlok el kell ltni olyan megjegyzssel, amely feltnteti a mdostst vgz nevt s a mdostsk
        dtumt.</para>
    </listitem>
    <listitem>
        <para>Minden olyan munkt, amely rszben vagy egzsben tartalmazza a Programot vagy a Programon alapul, olyan
        szablyokkal kell kiadni vagy terjeszteni, hogy annak hasznlati joga harmadik szemly rszre licencdjmentesen
        hozzfhet legyen, a jelen dokumentumban talhath feltteleknek megfelelen.</para>
    </listitem>
    <listitem>
        <para>Ha a mdostott Program interaktv olvassa a parancsokat futs kzben, akkor gy kell elkszteni, hogy a
        megszokott mdon trn indtskor megjelentsen egy zenetet a megfelel szerzi jogi megjegyzssel s a garancia hinya utal
        kzlssel vagy ppen azzal az informcvil, hogy miknt juthat valaki garancihoz), illette azzal az informcvil, hogy brki
        terjesztheti a Programot a jelen feltteleknek megfelelen, s arra is utalst kell tenni, hogy a felhasznl miknt tekintheti
        meg a licenc egy pldnyt. <note>
            <title>Kivtel:</title>
            <para>ha a Program interaktv ugyan, de nem jelent meg hasonl zenetet, akkor a Programon alapul munknak sem
            kell ezt tennie.</para>
        </note>
        <para>ha a Program interaktv ugyan, de nem jelent meg hasonl zenetet, akkor a Programon alapul munknak sem
        kell ezt tennie.</para>
    </listitem>
</para>

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Ezek a felttelek a mdostott munkra, mint egszre vonatkoznak. Ha a munka azonoshat rszei nem a Programon alapulnak s fgtetlen munkkkn elkhlniten azonoshat, akkor ez a szablyozs nem vonatkozik ezekre a rszekre, ha azok kln munkaknt kerlnk terjesztsre. Viszont, ha ugyanez a rsz az egz rszeknt kerl terjesztsre, amely a Programon alapul munka, akkor az egz terjesztse csak a jelen dokumentum alapjn lehetsges, amely ebben az esetben a jogokat minden egyes felhasznl szmra kiterjeszti az egzre tekintetl nlk arra, hogy melyik rszt ki rta.</para>

E szvegrsznek teht nem az a clja, hogy msok jogait elvegye vagy korltozza a kizrlag sajt maga ltal rt munkkra; a cl az, hogy a jogok gyakorlta szablyozva legyen a Programon alapul illetve a gyjtemnyes munkk terjesztse esetben./para>

Ezenkvl ms munkknak, amelyek nem a Programon alapulnak, a Programmal (vagy a Programon alapul munkval) kzs adathordozon vagy adattroln szerepeltetse nem jelenti a jelen szablosyov lnyssgt azokra is./para>

</sect2>

<sect2 id="sect3" label="3">
<title>3. szakasz</title>

A Program (vagy a Programon alapul munka a <link linkend="sect2">2. szakasznak</link> megfelelen) msonhat s terjeszthet trgykd vagy vrehajhatat kd formjban az <link linkend="sect1">1. szakasznak</link> s a <link linkend="sect2">2. szakasznak</link> foglaltak szerint, amennyiben az albbi felttelek is teljesnek: <orderedlist numeration="loweralpha">
<liitem>
<a href="#sect2">a teljes, gp ltal rtelmezhet forrskd ksri az anyagot, amelynek terjesztse az <link linkend="sect1">1.

szakasznak</link> s a <link linkend="sect2">2. szakasznak</link> foglaltak szerint ttrnik, jelllemzen szoftverterjesztsre hasznlt adathordozn; vagy, </a/>
</liitem>

<liitem>
<a href="#sect1"></a/>
</liitem>

<liitem>
<a href="#sect2">legalbb hrom vre szlan rsban vllalja, hogy brmely kls szemlynek rendelkezsre ll a teljes gp ltal rtelmezhet

forrskd, a fizikai tovbbtst fedez szegnl nem nagyobb djrt az 1. s 2. szakasznak foglaltak szerint szoftverterjesztsre

hasznlt adathordozn; vagy, </a/>
</liitem>

<liitem>
<a href="#sect2"></a/>
</liitem>

<liitem>
<a href="#sect1">a megfelel forrskd terjesztse vonatkozan megkapott tjkoztats ksri az anyagot. (Ez az alternatva csak nem

ereskedelmi terjeszt esetn alkalmazhat abban az esetben, ha a terjeszt a Programhoz a trgykd vagy forrskd

formjban jutott hozz az ajnlattal egytt a fenti b. cikkelyek megfelelen.)</a>
</liitem>

<liitem>
<a href="#sect2"></a/>
</liitem>

<liitem>
<a href="#sect1"></a/>
</liitem>

</orderedlist>

Egy munka forrskdja a munknak azt a formjt jelenti, amelyben a mdostsokat elsdlegesen vgezni szoks.

Egy vrehajhatat program esetben a teljes forrskd a tartalmazott sszes modul forrskdt jelenti, tovvb a kapcsold

felledefincs filokat s a fordst vezrl parancsfilokat. Egy specils kiveltknt a forrskdnak nem kell tartalmaznia norml

esetben a vrehajhatat kd futtatsra szolgl opercis rendszer fbb rszeknt (kernel, fordprogram stb.) terjesztet szeit

(forrs vagy binris formban), kivve, ha a komponens maga a vrehajhatat llnnyt ksri.</para>

Ha a vrehajhatat program vagy trgykd terjesztse a forrskd hozzfrst egy megadott helyen biztost rsban

vllalja, akkor ez egyenrtk a forrskd terjesztsvel, br msoknak nem kell a forrst lmsolniuk a trgykddal egytt.</para>
<sect2 id="sect4" label="4">
<title>4. szakasz</title>

<p>A Programot csak a jelen Licencben lertaknak megfelelően szabad lemsolni, terjeszteni, mdostani s allicencbe adni. Az egyb mdon trtn msols, mdosts, terjeszts s allicencbe ads rvnytelen, s azonnal rvnytelenl a dokumentumban megadott jogosultsgokat. Mindazonltal azok, akik a Licencet megszegtl kaptak pldnyokat vagy jogokat, tovbb gyakorolhatjuk a Licenc Ital meghatrozott jogaikat mindaddig, amg teljesen megfelelnl a Licenc feltteleinek.</p>
</sect2>

<sect2 id="sect5" label="5">
<title>5. szakasz</title>

<p>nnek nem ktelez elfogadnia ezt a szablyozst, hiszen nem rta al. Ezen kvl viszont semmi ms nem ad jogokat a Program terjesztsre s mdostsra. Ezeket a cselekedeteket a trvny bnteti, ha nem a jelen szerzi jogi szablyozs kereti ktt trtnnek. Mindezek miatt a Program (vagy a Programon alapul munka) terjesztse vagy mdostsa a jelen dokumentum szablyainak, s azon bell a Program vagy a munka mdostsra, msolsra vagy terjesztsre vonatkoz szsz felttelnek elfogadst jelenti.</p>
</sect2>

<sect2 id="sect6" label="6">
<title>6. szakasz</title>

<p>Minden alkalommal, amikor a Program (vagy az azon alapul munka) tovbadsa trtnik, a Programot megkap szemly automatikusan hozzjut az eredeti licencutajdonoslt szrmaz licenchez, amely a jelen szablyok szerint biztostja a jogot a Program msolsra, terjesztsre s mdostsra. Nem lehet semmilyen mdon tovbb korltozni a fogad flnek az itt megadott jogait. A Program tovbbadja nem felels harmadik szemlyekkel betartatni a jelen szablyokat.</p>
</sect2>

<sect2 id="sect7" label="7">
<title>7. szakasz</title>

<p>Ha brsgi hatrozat, szabadalomsrts vleme, vagy egyb (nem kizrlag szabadalmakkal kapcsolatos) okbl olyan feltteleknek kell megfelelnie (akr brsgi hatroztat, akr megllapods, akr brmi ms eredmnyekpp), amelyek ellentesek a jelen felttelekkel, az nem menti fel a terjeszt a jelen felttelek figyelembevele all. Ha a terjeszts nem lehetsges a jelen Licenc s az egyb felttelek ktelezettsgeinek egyttes betartsval, akkor tilos a Program terjesztse. Ha pldul egy szabadalmi szerzds nem engedi meg egy program jogdj nkli tovbterjesztst azok szmra, akik kztte vagy kztetlenl megkapjik, akkor az egyetlen mdja, hogy eleget tegyen valaki mindkt felttelnek az, hogy ell a program terjesztstl.</p>

<p>Ha ennek a szakasznak brmely rsze rvnytelen, vagy nem rvnyesthet valamely krlmny folytn, akkor a szakasz maradk rszt kell alkalmazni, egyb esetekben pedig a szakasz egssze alkalmazand.</p>

<p>Ennek a szakasznak nem az a clja, hogy a szabadalmak vagy egyb hasonl jogok megsrtsre sztnzzn brkit is; mindssze meg szeretn vdeni a szabad szoftver terjesztsi rendszernek egysgt, amelyet a szabad kzreadst szablyoz</p>
</sect2>
feltetelrendszerek teremtenek meg. Sok ember nagymértékben júrta hozz a e rendszer keretben terjesztett, kínfle szoftverekhez, s szint a rendszer kivetkezetes alkalmazsra; azt a szerz/adomnyoz dnti el, hogy a szoftvert ms rendszer szerint is kzz kvnj-a tenni, s a licencet kapk ezt nem befolyoshatjik.</para>

E szakasz elja, hogy pontosan tisztzza azt, ami elgondolunk szerint a jelen licenc tbbi rsznek a kvetkezmnye.</para>

Ha a Program terjesztse s/vagy hasznlata egyes orszgokban nem lehetsges akr szabadalmak, akr szerzi jogokkal vdett felletek miatt, akkor a Program szerzi jogainak eredeti tulajdonosa, aki a Programot ezen szablyozs alapin adja kzre, egy explicit fldrazi megtst adhat a terjesztstre, s egyes orszgokat kizirhat. Ebben az esetben gy tekintend, hogy a jelen licenc ezt a megktst is tartalmazza, ugyangy mintha csak a f szvegben lenne lerva.</para>

A Free Software Foundation idrl idre kiadja a General Public License dokumentum fellvizsglt s/vagy jabb vltozaitat. Ezek az jabb dokumentumok az elzek szellemben kszlnk, de rszletekben klnbzhetnek, hogy j problmkat vagy agglyokat is kezeljenek.</para>

A dokumentum minden vltozata egy megklnbztat verziszmmal elltva jelenik meg. Ha a Program szerzi jogi megjegyzésben egy bizonyos vagy annl jabb verzi van megjellve, akkor lehetsg van akr a megjellt, vagy a Free Software Foundation ital kiadott kbbi verziban lert felttelek kvetsre. Ha nincs ilyen megjellt verzi, akkor lehetsg van a Free Software Foundation ital valaha kibocstott brmelyik dokumentum alkalmazsra.</para>

A Programot ms szabad szoftverbe, amelynek szerzi jogi szablyozsa klnbzik, csak akkor ptheti be, ha a szerztl erre engedltyt szerzett. Abban az esetben, ha a program szerzi jogainak tulajdonosa a Free Software Foundation, akkor a Free Software Foundation cmre kell nni; nha kivtelt tesznk. A dnts a kvetkez kt el szem elt tartsval fog trtnni: megmaradjon a szabad szoftveren alapul munkk szabad llapota, valamint segtse el a szoftver jrafelhasznlst s megosztst.</para>

MIVEL A JELEN PROGRAM HASZNLATI JOGA DJMENTES, AZ ALKALMAZHAT JOGSZABLYOK ITAL BIZTOSTOTT MAXIMLIS MRTKBEN VISSZAUTASTJUK A PROGRAMHOZ A GARANCIA BIZTOSTST. AMENNYIBEN A SZERZI JOGOK TULAJDONOSAI RSBAN MSKNT NEM
NYILATKOZNAK, A PROGRAM A <quote>JELEN LLAPOTBAN</quote> KERL KIADSRA, MINDENFLE GARANCIAVLLALS NLKL, LEGYEN AZ KIFEJEZETT VAGY BELEERTETT, BELERTVE, DE NEM KIZRLAGOSAN A FORGALOMBA HOZHATSGRA VAGY ALKALMAZHATSGRA VONATKOZ GARANCIKAT. A PROGRAM MINSGBL S MKDSBL FAKAD SSZES KOCKZAT A FELHASZNLT TEREHEL. HA A PROGRAM HIBSAN MKDIK, A FELHASZNLNAK MAGNAK KELL VLLALNIA A JAVTSHOZ SZKSGES MINDEN KLTSGET.</para>

</sect2>

<sect2 id="sect12" label="12">
<title>12. szakasz</title>
<para>AMENNYIBEN A HATLYOS JOGSZABLYOK VAGY A SZERZI JOGOK TULAJDONOSAI RSOS MEGLLAPODSBAN MSKNT NEM RENDELKEZNEK, SEM A PROGRAM SZERZJE, SEM MSOK, AKIK MDOSTOTTK S/VAGY TERJESZTETTK A PROGRAMOT A FENTIEKNEK MEGFELELEN, NEM TEHETK FELELSS A KROKRT, BELEERTVE MINDEN VLETLEN, VAGY KVETKEZMNYES KRT, AMELY A PROGRAM HASZNLATBL VAGY A HASZNLAT MEGAKADLYOZSBL SZRMAZIK (BELEERTVE, DE NEM KIZRLAGOSAN AZ ADATVESZTST S A HELYTELEN ADATFELDOLGOZST, VALAMINT A MS PROGRAMOKKAL VA HIBS EGYTTMKDST), MG AKKOR SEM, HA EZEN FELEK TUDATBAN VOLTAK, HOGY ILYEN KROK KELETKEZHETNEK.</para>
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 48574
Preambule

Software licence jsou v tinou navr eny tak, e vm odebraj prvo svobodnho sdlen a prav program. Smyslem GNU General Public License je naproti tomu zu rit svobodu ke sdlen a pravm svobodnho softwaru - pro zajtin svobodnho pstupu k tomuto softwaru pro vechny jeho uivatele. Tato General Public License se vztahuje na v tinu softwaru nadace Free Software Foundation a na jakkoli jin program, jeho autor se piklon k jejmu pouvn. (Nkter dal software od Free Software Foundation je namsto toho pokryt GNU Lesser General Public License.) Mete ji rovn pout pro sv programy.

Pokud mluvme o svobodn softwaru, mme na mysl svobodu, nikoliv cenu. Nae General Public License je navrena pro zajtin toho, e mete svobodn it kopie svobodnho softwaru (a tovat si poplatek za tuto sluub, pokud chete), e obdrte zdrojov kd anebo jej mete zskat, pokud ho chete, e mete tento softwar modifikovat nebo jeho sti pout v novch svobodnch programech; a e vte, e tyto vci smte dlat.

Abychom mohli vae prva chnit, musme vytvoit omezen, kter zak komukoli vm tato prva odeprat nebo vs dat, abyste se tchto prv vzdat. Tato omezen se promtaj do jistch povinnost, kterm muste dostt, pokud te kopie dotynho softwaru anebo ho modifikujete.
Napklad, te-li kopie takovho programu, a ji zdarma nebo za poplatek, muste poskytnout pjemcm vechna prva, kter mte sm. Muste zaruit, e pjemci rovn dostanou anebo mohou zskat zdrojov kd. A muste jim ukzat tyto podmnky, aby znali sv prva.</para>

We protect your rights with two steps:

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</para>
</li>
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<para>offer you this license which gives you legal permission to copy, distribute and/or modify the software.
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</li>
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Kvli ochran kadho autora i ns samotnch chceme zajistit, aby kad chpal skutenost, e pro svobodn software neplat dn zruky. Je-li software nkm jinm modifikovn a posln dle, chceme, aby pjemci vdli, e to, co maj, nen originl, take jakkoliv problmy vnesen jinmi se neodraz na reputaci pvodnch autor.</para>

Kon, kad svobodn program je neustle ohroen softwarovmi patenty. Pejeme si zamezit nebezpe, e redistributoi svobodnho programu obdr samostatn patentov osvden a tm uin program vzam. Abychom tomu zamezili, deklarovali jsme, e kad patent mus bt bu vydn s tm, e umouje kadmu svobodn uit, anebo nesm bt vydn vbec.</para>

Pesn ustanoven a podmnky pro koprovn, en a modifikaci jsou uvedeny dle.</para>
You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of <link linkend="sect1">Section 1</link> above, provided that you also meet all of these conditions:

<orderedlist numeration="loweralpha"/>

<listitem>
<para>
You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
</para>
</listitem>

<listitem>
<para>
You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
</para>
</listitem>

<listitem>
<para>
If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License.
<note>
<title>Exception:</title>
<para>
If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
</para>
</note>

<para>
Tyto poadavky se vztahuj k modifikovanmu dlu jako celku. Pokud lze identifikovat sti takovho dla, kter zejm nejsou odvozeny z programu a mohou bt samy o sob rozumn povaha za nezvisl a samostatn dla, pak se tato licence a jej ustanoven nevztahuj na tyto sti, jsou-li eny jako nezvisl dla. Avak jakmile tyt sti rozijete jako st celku, jm je dlo zaloen na programu, mus bt roziovn tohoto celku podzeno ustanovenm tto licence tak, e povolen poskytnut dalm uivatelm se roz na cel dlo,tedy na vechny jeho st bez ohledu na to, kdo kterou st napsal.</para>

<para>
Smyslem tohoto paragrafu tedy nen zskn prv na dlo zcela napsan vmi ani poprn vaich prv vi nmu; skutenm smyslem je vkon prva na zen distribuce odvozench nebo kolektivnych dl zaloench na programu.</para>

<para>
Pouh spojen jinho dla, je nen na programu zaloeno, s programem (anebo dlem zaloenm na programu) na pamovm nebo distribumn mdiu neuuvazuje toto jin dlo do psobnosti tto licence.</para>

<sect2 id="sect3" label="3">
<title>Paragraf 3</title>
<para>
You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
</para>
</sect2>
Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

</para>
</listitem>
</listitem>

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
</para>
</listitem>
</orderedlist>
</para>
</sect2>

Zdrojov kd k dlu je nejvhodnj formou dla z hlediska jeho ppadnych modifikac. Pro dlo ve spustitelnm tvaru znamen pln zdrojov kd veker zdrojov kd pro vechny moduly, kter obsahuje, plus jakkoli dal soubory pro definici rozhran, plus dvkov soubory potebn pro kompilaci a instalaci spustitelho programu. Zvln vjmkou jsou vak ty softwarov komponenty, kter jsou normln eny (bu ve zdrojov nebo binrn form) s hlavnmi soustmi operanho systmu, na nm spustitel program b (tj. s pekladaem, jdrem apod.). Tyto komponenty nemus bt eny se zdrojovm kdem, pokud ovem komponenta sama nedoprovz spustitelnou podobu dla.

Je-li en objektovho nebo spustitelho kdu inno nabdkou pstupu ke koprovn z uritho msta, potom se za distribuci zdrojovho kdu pot i nabdnut ekvivalentnho pstupu ke koprovn zdrojovho kdu ze stejho msta, by pitom nejsou tet strany nuceny ke zkoprovn zdrojovho kdu spolu s objektovm.

</sect2>

Paragraf 4

Nesmte koprovat, modifikovat, poskytovat sublicence anebo it program jinm zpsobem ne vslovn uvedenm v tto licenci. Jakkoli jin pokus o koprovn, modifikovn, poskytnut sublicence anebo en programu je neplatn a automaticky ukon vae prva dan touto licenc. Strany, kter od vs obdrel kopie anebo prva v souladu s touto licenc, vak nemaj sv licence ukoneny, dokud se jim pln podizuj.

Paragraf 5

Nen va povinnost tuto licenci pijmout, protoe jste ji nepodepsal. Nic jinho vm vak nedv monost koprovat nebo it program nebo odvozen dla. V ppad, e tuto licenc nepijmete, jsou tyto innosti zkonem zakzny. Tm pdem modifikac anebo enm programu (anebo kadho dla zaloenho na programu) vyjadujete sv podzen se licenci a vem jejim ustanovenm a podmknk pro koprovan, modifikovn a en programu a dl na nm zaloench.
<sect id="sect6" label="6">
<title>Paragraf 6</title>

<para>Pokad, kdy redistribuujete program (nebo dlo zaloen na programu), zskv pjemce od pvodnho dritele licence prvo koprovat, modifikovat a it program v souladu s tmito ustanovenmi a podmnkami. Nesmte klst dn dal pekky vkonu zde zaruench pjemcovch prv. Nejste odpovdn za vymhn dodrovn tto licence tetmi stranami.</para>
</sect>

<sect id="sect7" label="7">
<title>Paragraf 7</title>

<para>Jsou-li vm z rozhodnut soudu, obvinnm z poruen patentu nebo z jakhokoli jinho dvodu (nejen v souvislosti s patenty) uloen takov podmnky (a ji pikazem soudu, smlouvou nebo jinak), kter se vyluu s podmnkami tto licence, nejste tm osvobozen od podmnk tto licence. Pokud nemete it program tak, abyste vyhov zrove svm zvazkm vyplvajcm z tto licence a jinm platnmm zvazkm, nesmte jej v dsledku toho it vbec. Pokud by napklad patentov osvden nepovolovalo bezplatnou redistribuci programu vemi, kdo vam pinnm zskaj pmo nebo nepmo jeho kopie, pak by jedin mon zpsob jak vyhov zrove patentovmu osvden i tto licenci spoval v ukonen distribuce programu.</para>

<para>Pokud by se za njakch specifickch okolnost jevila nkter st tohoto paragrafu jako neplatn nebo nevynutiteln, povauje se za smrodatnou rovnovh vyjden tmta paragrafem a paragraf jako celek se povauje za smrodatn za jinch okolnost.</para>

<para>Mnoz lid poskytli sv pspvky do irokho okruhu softwaru enho tmto systmem, spolehnuve se na jeho dsledn uplatovn; zle na autorov/drci, aby rozhodl, zda si peje it software pomoc njakho jinho systmu a dn uivatel licence neme takov rozhodnut zpochybovat.</para>
</sect>

<sect id="sect8" label="8">
<title>Paragraf 8</title>

<para>Pokud je en i pouit programu v nkterch zemch omezeno bu patenty anebo autorsky chrnnmi rozhranmi, me dritel pvodnch autorskch prv, kter svuje program do psobnosti tto licence, pidat vslovn omezen pro geografick en, vyluu takov zem, take en je povoleno jen v tch zemch nebo mezi tmi zemmi, kter nejsou tmt zpobem vyloueny. Tato licence zahrnuje v tomto ppad takov omezen presn tak, jako by bylo zapsno v textu tto licence.</para>
</sect>

<sect id="sect9" label="9">
<title>Paragraf 9</title>

<para>Free Software Foundation me as od asu vydvat upraven nebo nov verze General Public License. Takov nov verze se budou svm duchem podobat souasn verzi, v jednotlivostech se vak mohou liit s ohledem na nov
Kad verzi je pidleno rozliujc slo verze. Pokud program specifikuje slo verze, kter se na nj vztahuje, a vechny nsluduj verze, mete se podle uven dit ustanovenmi a podminkami buto on konkrtn verze a/nebo kterkoliv nsluduj verze, kterov vydala Free Software Foundation. Jestli program nespecifikuje slo verze tto licence, mete si vybrat libovolnou verzi, kterou kdy Free Software Foundation vydala.</sect2>

Pokud si pejete zahrnout sti programu do jinch svobodnch program, jejich distribun podminky jsou odlin, zalet autorovi dost o povolen. V ppad softwaru, k nmu vlastn autorsk prv Free Software Foundation, napite Free Software Foundation; nkdy inne vjmky ze zde uvedených ustanoven. Nae rozhodnut bude vedeno dvma cli: zachovnm svobodn povahy vech odvozenin naeho svobodnho softwaru a podporou sdlen a optovnho vyuit softwaru obecn.</sect2>

VZHLEDEM K BEZPLATNEMU POSKYTNUT LICENCE K PROGRAMU SE NA PROGRAM NEVZTAHUJE DN ZRUKA, A TO V ME POVOLEN PLATN ZKONEM. POKUD NEN PSEMN STANOVENO JINAK, POSKYTUJ DRITEL AUTORSKCH PRV POPPAD JIN STRANY PROGRAM

TAK, JAK JE, BEZ ZRUKY JAKHOKOLI DRUHU, A VSLOVN NEBO VYPLVAJC, VETN, ALE NIKOLI JEN, ZRUK PRODEJNOSTI A VHODNOSTI PRO URIT EL. POKUD JDE O KVALITU A VKONNOST PROGRAMU, LE VEKER RIZIKO NA VS. POKUD BY SE U PROGRAMU PROJEVLY ZVADY, PADAJ NKLADI ZA VECHNU POTEBNOU DRBU, OPRAVU I NPRAVU NA V VRUB.

V DNMM PPAD, S VJIMKOU TOHO, KDY TO VYADUJE PLATN ZKON, ANEBO KDY TO BYLO PSEMN ODSOULASENO, VM NEBUDE DN Z DRITEL AUTORSKCH PRV ANI DN JIN STRANA. KTER SM MODIFIKOVAT I IT PROGRAM V SOULADU S PEDCHOZMI USTANOVENMI, ODPOVNDI ZA KODY, VETN VECH OBECNCH, SPEICLNCH, NAHODILCH NEBO NSLEDNCH KOD VYPLVAJCCH Z UVN ANEBO NESCHOPNOSTI UVAT PROGRAMU (VETN, ALE NIKOLI JEN, ZTRTY NEBO ZKRESLEN DAT, NEBO TRVALCH KOD ZPSOBNCH VM NEBO TETM STRANM, NEBO SELHN FUNKCE PROGRAMU V SOUINNOSTI S JINMI PROGRAMY), A TO I V PPAD, E TAKOV DRITEL AUTORSKCH PRV NEBO JIN STRANA BYLI UPOZORNNI NA MONOST TAKOVCH KOD.
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Th hai, Giy Php ny bo tr cho tc gi v nh xut bn c cch hng cng trng v s c gng ca mnh, cn h khng c coi c chu treh nhim
v s sa i ca ngi khc.</para>
</abstract>
LI M U

Giy Php ny nhm mc ch lm cho s tay, cun sch gio hay ti liu ghi ra khc l <quote>t do</quote>: mb bo mi ngi c quy quyen sao chp v phят hnh li ti liu, c sa i n hay khng, mt cch thng mi hay khng. Th hai, Giy Php ny bo tn cho tc gi v nh xut bn c cch hng cng trng v s c gng ca mnh, cn h khng c coi c chu trch nhim v s sa i ca ngi khc.</para>

Giy php ny l kiu <quote>tc quyn ngc</quote>, c nga h l mi sn phm bt ngun t ti liu ny cng phi l t do v cng ngha. N b tr Giy Php Cng cng GNU (GPL), mt giy php tc quyn ngc c thit k cho phn mm dng t do.</para>

Chng ti thit k Giy php ny dng n v s tay hng dn cch s dng phn mm t do, v phn mm t do cn thit ti liu cng t do: chng trnh t do nn c sn s tay cung cp cng nhng quyn t do vi phn mm. Tuy nhin Giy php ny khng b hn ch trong cc s tay phn mm; n c th c dng vi bt c vn bn no, bt cht ch, bt cht n l cun sch c in ra hay khng. Chng ti ngh Giy php ny chnh cho ti liu nhm mc ch hng dn hay tham kho.</para>

S THCH HP V LI NH NGHA

Giy php ny p dng cho bt k s tay no hay vn bn khc cha thng bo c chn bi ngi gi tc quyn, ni rng n c th c phят hnh vi iu kin ca Giy php ny. <quote>Ti liu</quote> bn di i din bt c s tay hay vn bn no nh vy. Bt c ngi ring no l ngi c cp bn quyn, v c gi l bn.</para>

Phin bn Sa i<quote>c</quote> ca Ti liu c nga h l bt c vn bn cha Ti liu hay on no ca n, hoc c sao chp ng quy vn, hoc vi s sa i v/hay c dch sang ngng ng khc.</para>

Tit on Ph<quote>c</quote> 1 ph lc c tn hay tít on trc ca <link linkend="fdl-document">Ti liu</link>
m din t ch quan h ca nh xut bn hay tc gi ca Ti liu vi c chnh ca Ti liu (hoc vi c ch lin quan) v khng cha g mm trong ch chnh. (Ly th d, nu Ti liu c tít on l cun sch gio ton hc, Tit on Ph khng th din t g v ton hc.) Quan h ny c th l lin kt lch s vi ch hay vi c ch lin quan, hoc l un im hp php, thng mi, thuc trit hc, thuc o c hay chnh tr v chng.</para>

Tit on Bt Bin<quote>c</quote> 1 <link linkend="fdl-secondary">Tit on Ph</link>
xc nh l Tit on Bt Bin trong thng bo ni rng <link linkend="fdl-document">Ti liu</link>c phнят hnh di Giy php ny.</para>

On Ba<quote>c</quote> 1 vn bn ngn c lit k l on Ba Trc hay on Ba Sau trong thng bo ni rng <link linkend="fdl-document">Ti liu</link>c phнят hnh di Giy php ny.</para>

Ngha l bn sao cho my c c, c i din theo mt nh dng c c t cng b cho mi ngi xem, c ni dung cho ngi dng xem v sa i mt cch trc tip v r rng bng trnh son thơn vn bn ging loi hay (i vi nh c cu trc theo im nh) trnh sn ging loi hay (i vi be v) trnh hiu chnh bc v c cng b rng ri, m thch hp nh p trnh nh dng vn bn hay dch t ng sang nhí nh dng khc nhau thch hp nhp vo trnh nh dng vn bn. Bn sao c to theo mt nh dng tp tin Trong Sut bng cch khe tr n c m nh dng c thit k chnh hay can ngn ngi c sa i th khng phi l Trong Sut. Bn sao khng phi l Trong Sut c gi l <quote>c</quote>.</para>

Nhng nh dng thch hp vi bn sao Trong Sut gm c ASCII chun khng c m nh dng, nh dng nhp vo Texinfo, nh dng nhp vo LATEX, SGML hay XML dng mt DTD c cng b, v HTML n gin ph hp vi tiu chun c thit k cho ngi sa i.
Những dùng c giao c PostScript, PDF, nh dạng s html c v sa i ch bng trn x l t s hu, SGML hay XML cho DTD hay/v cng c x l khng c cng b, v HTML do my to ra c to bi mt s trn x l t ch cho mc ch xut.</p>

<p><para id="fdl-title-page"><quote>Trang Tiêu</quote> c ngha l, i vi cun sch c in ra, trang tiêu chnh n, cng vi trang sau no cn thit hin th r nguy liu phi xut hin trn trang tiêu, ty theo Gii ph ph ny. i vi vn bn theo nh dạng khng c trang tiêu nh th, <quote>Trang Tiêu</quote> ngha l vn bn gn v tr hin th r nguy liu can vn bn, nm trc thn vn bn.</para>
</sect1></p>

<p><sect1 id="fdl-section2" label="2">
<title>SAO CHP NG NGUYỄN VN</title>
<para>Cho php bn sao chp v phth nh <link linkend="fdl-document">Ti liệu</link> trong bt c vt cha no, thng mi hay khng, min l Gii ph ph ny, nhng thng bo tc quyn, v thng bo giy ph ph ngi Gii ph ph ny p dng cho Ti lieu c to li trong mi bn sao, bn bn khng thm iu kin khc no vo nh ng iu kn ca Gii ph ph ny. Khng cho php bn s dng bin ph ph kt thut gy tr ngi cho hay iu khin hot ng c hay sao chp thm na nhng bn bn to hay phth hnn. Tuy nhin, cho php bn chp nhn s n b tao cho bn sao. Nu bn nh th n s bn sao In, bn cng phi tun theo iu kin trong <link linkend="fdl-section3">phn 3</link>.</para>
</sect1></p>

<p><para>Cng cho php bn cho mn bn sao, vi cng iu kin ni trn, v cho php bn trnh by cng khai bn sao.</para></p>
</sect1></p>

<p><sect1 id="fdl-section3" label="3">
<title>SAO CHP HÀNG LỘT</title>
<para>Nu bn xut bn s bn sao c in ra ca <link linkend="fdl-document">Ti liệu</link> hn 100, v thng bo giy ph ph ca Ti liu cn thit <link linkend="fdl-cover-texts">on Ba</link>, bn phi vy quanh mi bn sao trong ba hin th r ng ng t c cc on Ba ny : on Ba Trc trn ba trc, cn on Ba Sahn trn ba sau. C hai ba cng phi hin th r ng ng bn ln xut bn nhng bn bn sao ny. Ba trc phi hin th tiu y c mi t r ng u. Cho php bn thm nhng liu na trn bn. Vic sao chp ch thay i ba, min l ba bo t tiu ca <link linkend="fdl-document">Ti liệu</link> v th ngng iu kin ny, c th c coi l vic sao chp ng nhng vn bn cng ckh.</para>
</sect1></p>

<p><para>Nu nhng vn bn bt buc phi nm trn ba no l qu di hin th r ngng, bn nn nh th nhng on th nht c lit k (nhiu nht hin th c r) trn ba , v hin th vn bn cn li trn cc trang tip cn.</para></p>

<p><para>Nu bn xut bn hay phth nhnh s bn sao <link linkend="fdl-transparent"><c/></link> ca <link linkend="fdl-document">Ti liệu</link> hn 100, bn phi hoc phth nhnh mt bn sao <link linkend="fdl-transparent">Trong Sut</link> cho my c cng vi mi bn sao c, hoc phth biu trong hay vi mi bn sao c mt a im trn mnng my thnh cho mi ngi truy cp m cha mt bn sao Trong Sut hon thnh ca Ti liu, khng c nguy liu c thm, vo mi nghi s dng mnng chung c th truy cp ti xung v min ph bng giao the chy mnng tiu chun cng cng. Nu bn s dng ty chn th hai, bn cn phi theo mt s bc hi cn thn, khi bn bt u phth nhnh hng lot bn sao c, chu chan l bn sao Trong Sut ny s vn cn cho ngi truy cp a im nghi trong t nht mt mn sau ln cui cng bn phth nhnh mt bn sao c (mt ccc trc tip hay qua i l hay hng bn) ca bn sa i cho cng cng.</para></p>

<p><para>Yu cu, nhng khng cn thit bn ln lc vi nhng tc gi ca <link linkend="fdl-document">Ti liệu</link> kh trc khi phth nhnh hng lot bn sao, cho h c dp cung cp phnh bn Ti liu c cp nht.</para></p>
</sect1></p>

<p><sect1 id="fdl-section4" label="4">
<title>SA I</title>
<para>Cho php bn sao chp v phth nhnh <link linkend="fdl-modified">Phin bn</link> Sa i</para></p>
Ti liu vi iu kin ca phn cng tiu khc bit vi tiu ca phn bn no trc (cc phin bn trc, nu c, nn c lit k trong phn Lch s ca Ti liu). Nh xut bn gc cho php th bn c quy n s dng cng mt tiu vi phin bn trc.</para>

<liitemizedlist mark="upper-alpha">
<lipara>Dng trn Trang Tiu (cng trn nhng ba, nu c) mt tiu khc bit vi tiu ca phin bn no trc (cc phin bn trc, nu c, nn c lit k trong phn Lch s ca Ti liu). Nh xut bn gc cho php th bn c quy n s dng cng mt tiu vi phin bn trc.</lipara>

<lipara>Lit k trn Trang Tiu, lm tc gi, mt hay nhu ngay hay the ch chu trch nhm to s sa i trong Phin bn Sa i(</lipara>, cng vi t nht nm tc gi chnh ca Ti liu</lipara>, (tt c cc tc gi chnh, nu s t hn nm).</lipara>

<lipara>Ghi r trn Trang Tiu, tn ca nh xut bn cng mt tiu ca Phin bn Sa i(</lipara>, lm nh xut bn.</lipara>

<lipara>Bo tn tt c cc thng bo tc quy n ca cng Ti Liu</lipara>.</lipara>

<lipara>Thm mt thng bo tc quy n thch hp vi s sa i ca bn, tip cn vi cc thng bo tc quy n khc.</lipara>

<lipara>Chn vo, ng sau nhng thng bo tc quy n, mt thng bo giy php cho php mi ngi s dng cng Phin bn Sa i(</lipara>, vi iu kin ca Giy php ny, dng mu c hin th trong Ph le bn di.</lipara>

<lipara>Bo tn trong thng bo giy php nhng danh sch y cc cng Tit on Bt Bin</lipara> v cc cng Ti liu</lipara>.</lipara>

<lipara>Gm c mt bn sao cha thay i ca Giy php ny.</lipara>

<lipara>Bo tn phn tn "Lch s" cng vi tiu ca n, v thm vo n mt mc pht biu t nht tiu, nm xut bn, cc tc gi mi v nh xut bn ca cng Phin bn Sa i(</lipara> nh a ra trn cng Ti liu</lipara>.</lipara>
Trang Tiu <link> . Khng c phn tn <quote>Lch S</quote> trong <link linkend="fdl-document">Ti liu</link> th bn to mt iu ph biu t nht tiu , nm xut bn, cc tc gi v nh xut bn ca <link linkend="fdl-document">Ti liu</link> nh a ra trn <link linkend="fdl-title-page">Trang Tiu</link> <link> ca n, ri thm mt mc din t <link linkend="fdl-modified">Phin bn Sa i<link> nh c pht biu trong cu trc.</link></para>

</listitem>

</liitemizedlist>

<para>Bo tn a im trn mng, nu c, a ra trong <link linkend="fdl-document">Ti liu</link> cho mi ngi truy cp mt bn soa <link linkend="fdl-transparent">Trong Sut</link> <link> ca <link linkend="fdl-document">Ti liu</link>, cng vy a im mng a ra trong <link linkend="fdl-document">Ti liu</link> cho cc phin bn trc vo n da. Cho php bn chn nhng iu ny vo phn <quote>Lch s</quote>. Cho php bn b st mt a im mng i vi vn bn xut bn t nht bn nm trc <link linkend="fdl-document">Ti liu</link> <link> chnh n, hoc nu nh xut bn gc ca phin bn mn cp c cho php.</link></para>

</listitem>

</liitemizedlist>

<para>i vi bt c phn no tn <quote>Li Bo Nhn</quote> hay <quote>Li Tng</quote>, bo tn tiu ca phn, cng bo tn trong n ton b nguy liu v ging iu u ca mi li bo nhn v/hay li tng ngi ng gp cho.</para>

</listitem>

</liitemizedlist>

<para>Tit on Bt Bin <link> ca <link linkend="fdl-document">Ti liu</link>, c vn bn ln tiu u khang thay i. S hiu tit on hay tong ng khng c xem l phn ca tiu tit on.</para>

</listitem>

</liitemizedlist>

<para>Xo b tit on no c tiu <quote>S Xc nhn</quote>. Khng chphp <link linkend="fdl-modified">Phin bn Sa i</link> cha tit on nh vy.</para>

</listitem>

</liitemizedlist>

<para>ng thay i tiu ca k c tit on nh ti thnh <quote>S Xc nhn</quote> hoc thnh g xung t vi tiu ca bt c <link linkend="fdl-invariant"> Tit on Bt Bin</link> no. <link> no.</link></para>

</listitem>

</liitemizedlist>

<para>Nu <link linkend="fdl-modified">Phin bn Sa i</link> gm c tit on trc hay ph lc tho tiu chun ca <link linkend="fdl-secondary">Tit on Ph</link> v khng cha nguy liu c sao chp t <link linkend="fdl-document">Ti liu</link>, cho php bn ty chn xc nh mt s hay tt c nhng tit on y l bt bin. lm nh th, hy thm cc tiu ca chng vo danh sch cc <link linkend="fdl-invariant">Tit on Bt Bin</link> trong thng bo giy php ca <link linkend="fdl-modified">Phin bn Sa i</link> . Nhng tiu ny phi ring bit vi bt k tiu tit on kch.</para>

</listitem>

</liitemizedlist>

<para>Cho php bn thm mt tit on c tiu <quote>S Xc nhn</quote>, min l n cha ch s xc nhn <link linkend="fdl-modified">Phin bn Sa i</link> ca cc bn khc nhau ly th d, bi ph bn nhng hang hang hay li phn biu rng vn bn c tn thnh bi mt t chn no lm s xc nh c cn c ca mt tiu chun.</para>

</listitem>

</liitemizedlist>

<para>Cho php bn thm mt on cha n nm t lm <link linkend="fdl-cover-texts">on Ba Trc</link>, v mt on cha n 25 t lm <link linkend="fdl-cover-texts">on Ba Sau</link>, vo kt thc ca danh sch cc <link linkend="fdl-cover-texts">on Ba</link> trong <link linkend="fdl-modified">Phin bn Sa i</link> . Cho php mi th thm (hay thu xp thm) ch mt
<link linkend="fdl-cover-texts">on Ba Trc</link> v ch mt <link linkend="fdl-cover-texts">on Ba Sau</link>. Nu <link linkend="fdl-document">Ti liu</link> cha mt on ba trn ba, c thm tre bi bn (hoc c thu xp thm bi cng mt the th bn i din), khng cho php bn thm on na; nhng bn c th thay th iu c nu nh xut bn thm n cho php dt khot.</para>

<p>(Nhng) tc gi v nh xut bn ca <link linkend="fdl-document">Ti liu</link> khng phi bng Giy Php ny cho php s dng tn ca h trong tnh cng khi hoc xc nhn (trc tip hay c ng ) bt c <link linkend="fdl-modified">Phin bn</link> Sa i</link> no.</p>

</sect1>

<sect1 id="fdl-section5" label="5">
<title>KT HP TI LIU</title>

<p>Cho php bn kt hp <link linkend="fdl-document">Ti liu</link> vi cc ti liu khc c phlh nhn di Giy php ny, vi iu kin c xc nh trong <link linkend="fdl-section4">phn 4</link> trn v phin bn sa i, min l bn gm trong s kt hp tt c cc <link linkend="fdl-invariant">Tit on Bt Bin</link> ca tt cc ti liu ge, cha sa i, v lit k tt c chng l <link linkend="fdl-invariant">Tit on Bt Bin</link> ca vn bn kt hp, trong thng bo giy php ca n.</p>

</sect1>

<sect1 id="fdl-section6" label="6">
<title>TP HP TI LIU</title>

<p>Cho php bn to mt tp hp cha <link linkend="fdl-document">Ti liu</link> v cc ti liu khc nhau cng c ph lh nh di Giy php ny, v thay th nhng bn sao ring ca Giy php ny trong nhng ti liu khc nhau bng cng mt bn sao c bao gm trong tp hp, min l bn theo nhng quy tc ca Giy php ny mi phng din khe i vi vic sao chp ng nguy vn mi ti liu.</p>

</sect1>

<sect1 id="fdl-section7" label="7">
<title>TP HP VI SN PHM C LP</title>

<p>S su tp <link linkend="fdl-document">Ti liu</link> hay cc ti liu dn xut vi cc ti liu hay sn phm ring v c lp khe, trong hay trn mt khi tin ca phng tin lu tr hay phlh nh, ton b khng phi c thh n mt <link linkend="fdl-modified">Phin bn</link> Sa i</link> ca <link linkend="fdl-document">Ti liu</link>, min l khng c th quyen su tp c tuyn b v s su tp . S su tp ti liu nh vy c gi l <quote>khi tp hp</quote>, v Giy php ny khng phng cho nhng sn phm c lp khe c su tp vi <link linkend="fdl-document">Ti liu</link> do chng c su tp nh th, nu bn thn chng khng phi l sn phm dn xut ca <link linkend="fdl-document">Ti liu</link>. Nu nh cu <link linkend="fdl-cover-texts">on Ba</link> ca <link linkend="fdl-section3">phn 3</link> ca th c phng cho nhng bn sao ny ca <link linkend="fdl-document">Ti liu</link> do chng c su tp nh th, nu bn thn chng khng phi l sn phm dn xut ca <link linkend="fdl-document">Ti liu</link> ca <link linkend="fdl-cover-texts">on Ba</link> ca <link linkend="fdl-document">Ti liu</link>
trn ba chung quanh ch <link linkend="fdl-document">Ti liu</link> bn trong khi tp hp. Khng th nhng <link linkend="fdl-cover-texts">on Ba</link> ca <link linkend="fdl-document">Ti liu</link> phi xut hin trn ba chung quanh ton b khi tp hp.<para>

</sect1>

<sect1 id="fdl-section8" label="8">
<title>THNG DCH</title>
<para>S thng dch c coi l ki u s sa i, v vy cho php bn ph hnh cc bn dch ca <link linkend="fdl-document">Ti liu</link> vi i u kin ca <link linkend="fdl-section4">php 4</link> trn. Kh ng thay th <link linkend="fdl-invariant">Tit on Bt Bin</link> bn dch cn thit s cho php c bit ca mi ngi gi tc quyn ca n, nhng m cho php bn gm cc bn dch ca mt s hay tt c cc <link linkend="fdl-invariant">Tit on Bt Bin</link>, thm vo nhng phin bn gc ca mi <link linkend="fdl-invariant">Tit on Bt Bin</link> Tit on Bt Bin</link>. Cho php bn gm mt bn dch ca Giy php ny, min l bn cng gm phin bn ting Anh gc ca Giy php ny. Trong trng hp xung t gia bn dch v phin bn ting Anh gc ca Giy php ny, phin bn gc c quyn cao hn.<para>

</sect1>

<sect1 id="fdl-section9" label="9">
<title>KT THC</title>
<para>Khng cho php bn sao chp, sa i, cp ph hay phht hnh <link linkend="fdl-document">Ti liu</link>, tr phi vi nhng i u kin dt khot ca Giy php ny. Bt c s c gng khe no sao chp, sa i, cp ph hay phht hnh Ti liu b b, v s kt the t ng cc quyn ca bn di Giy php ny. Tuy nhn, nhng ngi nhn bn sao, hay quyn, t bn di Giy php ny s khng c giy php b kt thc min 1 h tip tc tu theo hon ton.<para>

</sect1>

<sect1 id="fdl-section10" label="10">
<title>BN SA I TNG LAI CA GIY PHP NY</title>

</para>

<para>Mi phin bn ca Giy php nhn mt s hiu phin bn ring. Nu <link linkend="fdl-document">Ti liu</link> xc nh rng mt phin bn c s hiu ring ca Giy php ny <quote>hay bt c phin bn sau no</quote> p dng cho n, bn c ty chn tun theo iu kin hoc ca phin bn xc nh, hoc ca bt c phin bn sau no c cng b (khng phi l nhp) bi T chc Phn mm T do. Nu <link linkend="fdl-document">Ti liu</link> khi ng xc nh mt s hiu phin bn ring ca Giy php ny, cho php bn chn bt c phin bn no c cng b (khng phi l nhp) bi T chc Phn mm T do.</para>

</sect1>

<sect1 id="fdl-using" label="none">
<title>Ph Lc</title>
<para>dng Giy php ny trong mt ti liu bn to, hy gm mt bn sao ca Giy php trong ti liu, v thm nhng thng bo tc quyn v giy php ny ng sau trang tiu :</para>

</blockquote>

<para>Tc quyn NM H TN CA BN</para>

<para>C cp quyn sao chp, ph hnh v/hay sa i ti liu ny vi iu kin ca Giy php Ti liu T do GNU (GFDL), Phin bn 1.1 hay bt c phin bn sau no c cng b bi T chc Phn mm T do; cn nhng <link linkend="fdl-invariant">Tit on Bt Bin</link> 1 LIT K CC TIU, cn nhng <link linkend="fdl-cover-texts">on Ba Trc</link> 1 LIT K, v cn nhng <link linkend="fdl-
Nu ti liu ca bn cha mu th d ng k ca m ngun chng trnh, khuyn bn phit hhnh nhng mu ny mt cch song song di giy php phmm mm t do mun, v.d. <ulink type="http" url="http://www.gnu.org/copyleft/gpl.html"> Giy php Cng cng GNU</ulink> (GPL), cho php ngi khc dng m ny trong phn mm t do.</para>
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Les Seccions invariables sn determinades Seccions secundries els tlots de les quals indiquen que sn Seccions invariables en l'avs que indica que el Document es distribueix sota aquesta Llicncia.</para>

Els Textos de portada sn determinats fragments breus de text que consten com a Textos de portada o Textos de contraportada en l'avs que indica que el Document es distribueix sota aquesta Llicncia.</para>

Una cpia Transparent del Document significa una cpia que pugui ser llegida per una mquina, presentada en un format les especificacions del qual siguin accessibles al pblic en general, els continguts de la qual es poden visualitzar i editar directament amb editors de text genrics, o, per a imatges composades de pxels, amb programes grfics genrics, o, per a dibuixos, amb editors de dibuix fcilment accessibles, i que es pugui introduir a formatadors de text, o a traductors automtics en una varietat de formats que es pugui introduir a formatadors de text. Una cpia feta en un format de fixer Transparent, l'etiquetatge del qual s hagi dissenyat per obstaculitzar o dissuadir als lectors de fer-hi ulteriors modificacions no s Transparent. Una cpia que no s Transparent s'anomena Opaca.</para>

Alguns dels formats adequats per a cpies Transparents sn: ASCII net sense etiquetatge, format d'entrada Texinfo, format d'entrada LaTeX, SGML o XML que utilitzin un DTD accessible per a tothom, i HTML sensill que compleixi amb els estndards que estigui dissenyat per a la modificaci humana. Els formats opacs inclouen
La <quote>Pagina de llitol</quote> significa, per a un llibre impres, la pròpia pàgina de llitol, ms totes aquelles pàgines que siguin necessàries per contenir, de manera ilegible, el material que aquesta Llicència requereix que aparegui a la pàgina de llitol. Per a les obres que, a causa del format de les quals, no tinguin pràcticament una pàgina de llitol, la <quote>Pagina de llitol</quote> significa el text proper a l'aparició ms destacada del llitol de l'obra, precedint el començament del cos del text.

Tamb' bé podeu prestar-ne pàpies, amb les mateixes condicions esmentades, i exhibir-ne pàpies públicament.

Si els textos requerits per a qualsevol de les cobertes són massa densos per encabir-los de manera que quedin ilegibles, cal que poseu els primers (tants com sigui raonablement possible) en la coberta real, i la resta en pàgines adjacents.

Si publiqueu o distribueu ms de 100 pàpies <link linkend="fdl-transparent">Opaques</link> del <link linkend="fdl-document">Document</link>, heu d'incloure amb cadascuna d'elles una cpia <link linkend="fdl-transparent">Transparent</link>, llelgible per una màquina, o b incloure-hi, o indicar-hi, una ubicació de xarxa accessible públicament que contingui una cpia Transparent completa del Document i sense material afegit des d'on tothom que utilitzi la xarxa pugui baixar-se, utilitzant protocols de xarxa pblics. Si utilitzeu aquesta darrera opcí, en començar la distribució de gran quantitat de pàpies Opaques heu de prendre les mesures raonablement necessàries per tal d'assegurar que la cpia Transparent a qu s'accedeix seguir disponible, en la ubicació indicada, com a mínim durant un any a comptat des del moment en que distribueu al pblic (directament o a través dels vostres representants o minoristes) l'última cpia Opaca d'aquesta edici.
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Indiqueu a la Página de títol el nom de l'editor de la Versió modificada, com a editor.

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Conserveu, en aquest avs de llicencia, la relaci completa de Seccions invariables i Textos de coberta necessaris que s'indiquen a l'avs de llicencia del Document.

Incloueu una cpia no alterada d'aquesta Llicencia.

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Podeu combinar el amb altres documents publicats d'acord amb aquesta Llicència, d'acord amb els termes exposats a la secció 4, ms amunt, per a les versions modificades, sempre que inclueu a l'obra resultant totes les Seccions invariables de tots els documents originals, sense modificar, les relacioneu com a Seccions invariables de l'obra resultant en el seu avís de llicència.

A l'obra resultant només cal incloure una cpia d'aquesta Llicència, i diverses Seccions invariables identiques es poden substituir per una sola cpia. Si hi ha diverses Seccions invariables amb el mateix nom, per amb continguts diferents, feu que el títol de cadascuna d'elles sigui nic afegint-hi, al final i entre parèntesis, el nom de l'autor o editor original de la secció (si es coneix) o un nombre nic. Feu la mateixa operació als títols de la secció que sn a la relació de Seccions invariables a l'avís de llicència de l'obra resultant.

A l'obra resultant podeu combinar totes les seccions titulades Històric dels diversos documents originals, donant com a resultat una secció titulada Històric; combineu de la mateixa manera totes les seccions titulades Agraments i totes les titulades Dedicaties. Heu de suprimir totes les seccions titulades Aprovacions.

COMBINACIÓ DE DOCUMENTS

A l'obra resultant podeu combinar totes les seccions titulades Històric, Agraments, Dedicaties, i diverses Seccions invariables identiques es poden substituir per una sola cpia. Si hi ha diverses Seccions invariables amb el mateix nom, per amb continguts diferents, feu que el títol de cadascuna d'elles sigui nic afegint-hi, al final i entre parèntesis, el nom de l'autor o editor original de la secció (si es coneix) o un nombre nic. Feu la mateixa operació als títols de la secció que sn a la relació de Seccions invariables a l'avís de llicència de l'obra resultant.
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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

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

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

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

<para>
For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
</para>

<para>
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.
</para>

<para>
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</para>

<para>
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a <quote>work based on the library</quote> and a <quote>work that uses the library</quote>. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
</para>
<sect1 id="terms" label="none">

<title>TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION</title>

<sect2 id="sect0" label="0">

<title>Section 0</title>

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</para>

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

</para>

<para>
The <quote>Library</quote>, below, refers to any such software library or work which has been distributed under these terms. A <quote>work based on the Library</quote> means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term <quote>modification</quote>.)

</para>

<para>
<quote>Source code</quote> for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

</para>

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</para>

</sect2>

</sect1>
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- The modified work must itself be a software library.
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- You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Section 5</title>

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

</para>

<para>
However, linking a <quote>work that uses the Library</quote> with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a <quote>work that uses the library</quote>. The executable is therefore covered by this License. <link linkend="sect6">Section 6</link> states terms for distribution of such executables.

</para>

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

</para>

<para>
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under <link linkend="sect6">Section 6</link>.)

</para>

<para>
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
</para>
</sect2>

<sect2 id="sect6" label="6">
<title>Section 6</title>

<para>
As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
</para>

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<orderlist numeration="loweralpha">
<listitem>
<para id="sect6a">
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
</para>
</listitem>
<listitem>
</listitem>
<listitem>
</listitem>
</orderlist>
</sect2>
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

</sect2>

<sect2 id="sect7" label="7">
<title>Section 7</title>

<para>
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</para>

<orderedlist numeration="loweralpha">
  <listitem>
    <para>
      Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
    </para>
  </listitem>
  <listitem>
    <para>
      Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
    </para>
  </listitem>
</orderedlist>

</sect2>

<sect2 id="sect8" label="8">
<title>Section 8</title>

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terminated so long as such parties remain in full compliance.
</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Section 9</title>

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</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Section 10</title>

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</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Section 11</title>

<para>
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<para>
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</para>

<para>
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</para>

<para>
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.
</para>

</sect2>

<sect2 id="sect12" label="12">
<title>Section 12</title>

<para>
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</para>

</sect2>

<sect2 id="sect13" label="13">
<title>Section 13</title>

<para>
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Software libreaz hitz egiten dugunean, askatasunari buruz aria edo prezioari buruz. Gure Lizentzia Publiko Orokorraren xedea da software librearen kopiarik banatzeko ( eta, nahi izanez gero, zerbitzu horrengatik kobratzeko) askatasuna duzula ziurtatzea, iturburu-kodea jasoko duzu edo, nahi izanez gero, hartzeko aukera duzu bermatzea, softwarea aldatzeko edo software zatiak beste programa libre berri batzuetan erabiltzeko eskubidea duzu segurtatzea eta gauza horiek egin ditzakezula jakinaraztea.


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Zure eskubideak babesteko, banatzaileen zuri eskubide hauek ukatzea edo eskubide horiek uko eginaraztea debekatzea eta eragoztzeko mugak jarri behar ditugu. Mugaketa horien ondorioz, liburutegia aldatu edo kopiak banatzen badituzu, zenbait erantzukizun hartuko dituzu zure gain.

Adibidez, liburutegiaren kopiak banatzen badituzu, bai doan eta bai kuota baten truke, eman dizkizugun
eskubide guztiak eman behar dizkiezu hartzaillee. Haieek ere iturburu-kodea jasotzen dutela edo jaso dezakete la ziurtatu behar duzu. Beste kodearen bat liburutegiarekin estekatzen baduzu, objektu-fitxategi guztiak eman behar dizkiezu hartzaillee, haieek ere liburutegiarekin estekatu ditzaten, liburutegiari aldaketa egin eta berrirro konpilatu ondoren. Eta baldintza hauek erakutsi behar dizkiezu, zer eskubide dituzten jakin dezaten.</para>

Banatzaileak babesteko, argi utzi nahi dugu liburutegi libreak ez duela bermerik. Norbaitek liburutegia aldatzen eta banatzen badu, hartzaillek jakin behar dute haieek dutena ez dela jatorrizko bertsioa, eta, beraz, besteren batek sortutako arazoek ez dutela jatorrizko egilearen ospea kaltetuko.


GNU softwarearen zati handiena, liburutegi batzuk barne, GNU Lizentzia Publiko Ororrankaren baldintzapean dago. GNU Hedadura Txikiagoko Lizentzia Publiko Ororranka liburutegi jakin batzuei aplikatzen zaie, eta Lizentzia Publiko Ororretik asko desberdintzen da. Lizentzia hori liburutegi batzuetan erabiltzen dugu programa libreak ez diren programaren liburutegietara estekatu ahal izateko.


Beste kasu batzuetan, liburutegi jakin bat programa ez-libreetan erabiltzeko baimena emanak software libreak jende gehiagok erabiltzea ahalbidetzeko du. Adibidez, GNU C Liburutegia programa ez-libreetan erabiltzeko baimenari esker, jende gehiagok erabiltzen ditu GNU sistema eragile osoa eta bere aldaera, hau da, GNU/Linux sistema eragilea.

Hedadura Txikiagoko Lizentzia Publiko Ororranka erabiltzailearen askatasuna gutxiago babestu arren, liburutegiarekin estekatutako programa baten erabilzaileari programa hori liburutegiaren bertso aldatu batean.
erabiltzeko askatasuna eta baliabideak ematen dizkio.</para>

"Softwarea kopiatzeko, banatzeko eta aldatzeko baldintza zehatzak dituzu jarraian: arretaz irakurri zein den "liburutegian onartutako lan"aren eta "liburutegia erabiltzen duen lan"aren arteko ezberdintasuna. Lehenengo lanak liburutegitik eratorritako kodea du; bigarren lana, aldiz, liburutegiarekin konbinatu behar da exekutatu ahal izateko."</para>

</sect1>

<sect1 id="terms" label="none">
<title>KOPIATZEKO, BANATZEKO ETA ALDATZEKO BALDINTZAK</title>

<sect2 id="sect0" label="0">
<title>0. atala</title>

<para>Hedadura Txikiagoko Lizentzia Publiko Orokor honen ("Lizentzia hau" ere deitua) baldintzapean banatu daitekeela adierazten duen oharra jarri badio egile-eskubideen jabeak software-liburutegi bati edo beste programa bati, lizentzia-kontratu hau aplikatuko zaio liburutegi edo programa horri. Lizentziadun oro adierazteko, "zu" erabiltzen da. </para>

<para><quote>Liburutegia</quote> software-funtzioen eta/edo datuen bilduma bat da, exekutagarriak sortzearen aplikazio-programekin behar bezala estekatzea prestatuak (aplikazio-programek funtzio eta dato horietako batzuk erabiltzen dituzte). </para>

<para>Aipatutako <quote>Liburutegia</quote> baldintza hauek betez banatu den horrelako edozein software-liburutegiri edo -lani dagokio. <quote>Liburutegian oinarritutako lana</quote>rekin adierazi nahi da egile-eskubideen legearen baitan egindako edozein Liburutegi edo lan eratorri: hau da, Liburutegia bera edo Liburutegiaren zati bat daukan lana, bai kopia literalak, bai aldaketak dituen kopia, bai beste hizkuntza batera itzulitakoak. (Aurrerantzean, itzulpena <quote>aldaketa</quote> terminoaren sartuko da inongo mugarik gabe.)</para>


<para>Lizentzia honi dagozkion jarduera bakarrak kopiatzea, banatzea eta aldatzea dira; bestelako jarduerak lizentzia honen esparrutik kample daude. Programa bat Liburutegia erabiliz exekutatzeko ez dago mugatuta, eta programa horren emaitza babestuta egongo da haren edukia liburutegian oinarritutako lana bada soilik (Liburutegia idazteko tresna batean erabili den edo ez kontuan hartu gabe). Egia den edo ez, Liburutegiak egiten duenaren eta Liburutegia erabiltzen duen programak egiten duenaren araberakoa da.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>1. atala</title>

<para>Liburutegiaren iturburu-kode osoa jaso bezala kopiatu eta banatu dezakezu edozein euskaritzen, baldin eta kopia bakoitzari behar bezala eta ikusteko modua jartzen badozuk egile-eskubideen oharra eta bermerik izen duela dioen oharra; Lizentziari eta bermerik ezari dagozkion ohar guztiak oso-osorik uzten badituzu; eta Lizentziaren kopia Liburutegiarekin batera banatzen baduzu.</para>
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- If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

<para>
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
</para>

<para>
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<para>
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</para>

<sect2 id="sect3" label="3">
<title>3. atala</title>

<para>Liburutegiaren kopia bati GNU Lizentzia Publiko Orokorren baldintzak aplikatzea hauta dezakezu, Lizentzia hau aplikatu beharrean. Horretarako, Lizentzia horri erreferentzia egiten dioten ohar guztiak aldatu behar dituzu, GNU Lizentzia Publiko Orokor arruntaren 2. bertsioari erreferentzia egin diezaioten, Lizentzia honi egin beharrean. (GNU Lizentzia Publiko Orokorren 2. bertsioa baino berriago bat agertuko balitz, bertsio hori zehaztu dezakezu nahi izanez gero.) Ez egin beste aldaketarik ohar horietan.</para>

<para>Kopia batean aldaketa hori egindakoan ezin daiteke aldatu, eta GNU Lizentzia Publiko Orokorra aplikatuko zaie kopia horren ondorengo kopia guztiei eta handik eratorritako lanei.</para>

<para>Aukera hori erabilgarria da Liburutegiaren kodearen zati bat liburutegia ez den programa batean kopiatsu nahi baduzu.</para>

</sect2>

<sect2 id="sect4" label="4">
<title>4. atala</title>

<para>Liburutegia kopiatu edo banatu dezakezu (edo Liburutegian oinarriztutako lana, <link linkend="sect2">2. atalean</link> azaltzen den bezala) objektu-kodean edo forma exekutagarrian <link linkend="sect1">1. </link> eta <link linkend="sect2">2. </link> ataletako baldintzei jarraiki, baldin eta makina bidez irakurtzeko moduko iturburuko kode osorekin batera banatzen baduzu, goiko <link linkend="sect1">1. </link> eta <link linkend="sect2">2. </link> ataletan biltzen diren baldintzak betez softwarea trukatzeko eskuarki erabiltzen den euskarian.</para>

<para>Objektu-kodeen banaketa xede horretarako zehaztutako leku batetik kopiatzeko sarbidea eskaintzen egiten bada, leku beretik iturburu-kodea kopiatzeko sarbide balioidea eskaintzeak iturburu-kodea banatzeko balintza betezten du, nahiz eta hirugarren alderdiak ez dauden behartuta objektu-kodearekin batera iturburua kopiatzera.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>5. atala</title>

<para>Programa batek Liburutegiaren zatietatik erortzi ez den edukia duenean, baina Liburutegiarekin lan egiteko diseinatua dagoenean (harekin konpilatuta edo estekatuta), <quote>Liburutegia erabiltzen duen lana</quote> deitzen zaio. Horrelako lanak, bukarka, ez dira Liburutegitik erorritako lanak, eta, beraz, Lizentzia honen esparrutik kanpo daude.</para>

<para>Hala ere, <quote>Liburutegia erabiltzen duen lan</quote> bat Liburutegiarekin estekatzen baduzu, exekutagarri bat sortzen du eta hori Liburutegiarekin erortzia da (Liburutegiarekin zatiak baititu), eta ez <quote>Liburutegia erabiltzen duen lana</quote>. Beraz, exekutagarria Lizentzia honen baitan sartzent da. <link linkend="sect6">6. atalean</link> exekutagarri horiek banatzeko baldintzak zehazten dira.</para>


<para>Horrelako objektu-fitxategi batek zenbakizko parametroak, datu-egituraren diseinuak eta gehigarriak, makro txikiak eta barneko funtzio txikiak (hamar lerro edo gutxiago luzeran) soilik erabiltzen baditu, objektu-fitxategiaren erabilerako mugatu gabe egongo da. Legalki lan erortxia den edo ez kontuan hartu gabe. (Objektu-kodea eta Liburutegiarekin zatiak dituzten exekutagarriak <link linkend="sect6">6. atalean</link> zehazten dira.)</para>

<para>Bestela, lana Liburutegiarekin erortzia bada, lanaren objektu-kodea <link linkend="sect6">6. ataleko</link> baldintzen pean banatu dezakezu. Lan hori duen edozein exekutagarri ere <link linkend="sect6">6. atalean</link> sartuko da, Liburutegiarekin zuzenean estekatuta dagoen edo ez kontuan hartu gabe.</para>

</sect2>
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- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing
this distribution.
</para>
</listitem>
<li>
 If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.
</para>
</listitem>
<li>
 Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
</para>
</listitem>
</orderedlist>

<para>Exekutagarrietzat, behar den <quote>Liburutegia erabiltzen duen lan</quote>ak exekutagarria kopiatzeko
behar diren datu eta programa-utilitateak eduki behar ditu. Nolanahi ere, aparteko salbuespen gisa, banatzen den
materialak ez dauka exekutatzeko erabiltzen den sistema eragilearen osagai nagusiekin (konpiladorea, nukleoa eta
abar) banatu ohi den guzia eman beharririk (iturburu nahiz bitar moduan), baldin eta osagaia bera ez bada
exekutagarriarekin batera banatzen.</para>

<para>Baliteke baldintza hori liburutegien jabeari buruz lizentzian ezartzen diren mugekin kontraesan egotea
(normalean ez dira sistema eragilearekin batera eotorritzen). Kontraesan horrek esan nahi du ezin dituzula biak batera
erabili banatzen duzu exekutagarri batean.</para>

</sect2>

<sect2 id="sect7" label="7">
<title>7. atala</title>

<para>Liburutegian oinarriturako lana diren liburutegi-eginbideak elkarren ondoan jar ditzakezu liburutegi
bakarrean, Lizentzia honetan aipatzen ez diren beste liburutegi-eginbide batzuekin batera, eta horrelako liburutegi
konbinatuak banatu ditzakezu, betiere Liburutegian oinarriturako lanaren eta beste liburutegi-eginbide batzuen
banaketa bereizia onartzen bada, eta zuk bi gauza hauek egiten badituzu:</para>

<orderedlist numeration="loweralpha">
<li>
<para>Liburutegi konbinatua Liburutegian oinarriturako lan berdinen kopiarekin banatu, beste inolako
liburutegi-eginbiderik sartu gabe. Goiko atalean zehaztutako baldintzen pean banatu behar da.</para>
</li>
<li>
</li>
</orderedlist>
<para>Liburutegi konbinatuan ohar nabarmen bat jarri bere zati bat Liburutegian oinarritutako lana dela adierazi, eta lan beraren konbinatu gabeko formatua non aurkitu daitekeen azaldu.</para>
</listitem>
</orderedlist>
</sect2>

<sect2 id="sect8" label="8">
<title>8. atala</title>

<para>Debekatuta dago lizentzia honen baitan espresuki adierazitakoa bete gabe Liburutegia kopiatu, aldatu, azpilizentziatu, estekatu edo banatzea. Beste era batean Liburutegia kopiatu, aldatu, azpilizentziatu, estekatu edo banatzeko saio oro deuseza izango da, eta Lizentzia honen baitan daukazun eskubideak automatikoki kendu egingo zaikiztu. Dena den, Lizentzia honen pean zuregandik kopiak edo eskubideak jaso dituztenei ez zaizkie lizentziak kenduko, baldintza guztiak betetzen dituztenei.</para>
</sect2>

<sect2 id="sect9" label="9">
<title>9. atala</title>

<para>Lizentzia hau sinatu ez duzunez, ez daukazu onartu beharrik. Nolanahi ere, beste ezerk ez dizu emango Liburutegia edo liburutegitik errorturriak lanak aldatzeko edo banatzeko baimenik. Ekintza horiek legez debekatuta daude Lizentzia hau onartu ezean. Orokorroz, Liburutegia (edo Liburutegian oinarritutako edozein lan) aldatzen edo kopiatzeko baduzu, Lizentzia hau onartzen duzula adierazten duzu, eta, horrekin batera, Liburutegia edo Liburutegian oinarritutako lanak kopiatzeko, banatzez eta aldatzeko baldintza guztiak.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>10. atala</title>

<para>Liburutegia (edo Liburutegian oinarritutako edozein lan) birbanatzen duzun bakoitzean, hartzailaek automatikoki jasoak daude Liburutegia kopiatuen, banatzeko edo aldatzeko jatorrizko lizentzia. Hemen ematen diren eskubideei dagokienez, ezin diozu bestelako murriztapenik ezarri hartzaileari. Ez da zure ardura hirugarrenei Lizentzia hau betearaztea.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>11 atala</title>

<para>Epaitegi-ebazpen baten ondorioz edo patente-eskubidea urratu dela dioen salaketa baten ondorioz, edo beste edozein arrazoirengatik (ez bakarrik patente-gaiei dagokiena) Lizentzia honen baldintzekin bat ez datozen baldintzak ezartzen bazaikiztu, ez zaituzte Lizentzia honen baldintzak bete beharretik libratuko. Ezinezkoa bazaizu Lizentzia honetako baldintzak eta dagozkion beste betebear batzuk betez banatzea, ezingo duzu Liburutegia inola ere banatu. Adibidez, patente-lizentzia batek ez balu onartuko zure bitartez zuzenean edo zeharka kopiak jasotzen dituztenek Liburutegia egile-eskubiderik gabek lizarriak, patentea eta Lizentzia hau betetzeko modu bakarra Liburutegia ez banatzea litzateke.</para>
</sect2>

<para>Atal honen zatiren bat baliogaba edo beteezina bada egoera bereziren batean, atalaren gainerako guztia aplikatu beharko da, eta atala bere osotasunean aplikatu beharko da beste egoeretan.</para>
Atal honen xede ez da patenteak edo jabetza-eskubideen eskakizunak ez betetza eko halako eskakizunen haliozkotasuna ukatzea; atal honen xede bakarra da software libraren banaketa-sistemaren zuzentasuna babestea, lizentzia publikoen bidez bideratzen baira. Sistema horren baitan banatutako software ugariari ekarpen oporoa egin dio jende askok, sistema modu iraunkorrean aplikatuko delakoa. Egile/emailearen esku dago erabakitzea beste sistemaren baten bidez banatu nahi duen edo ez, eta lizentziadun batek ezin du halako erabakirik inposatu.</para>

Atal honek argi eta garbi utzi nahi du zer den Lizentziaren zatiaren ondoriozat jotzen dena.</para>

Zenbait herrialdetan Liburutegiaren banaketa edo/eta erabilera mugatzen baldin badute patenteen edo copyrightdun interfazeen bidez, jatorrizko copyrighta duenak geografikoki mugatu ahal izango du banaketa herrialde horiek kanpoan uzteko, banaketa bartzu gabeko herrialdeetan edo horien artean soilik egin dadin. Halako kasuetan, mugaketa hori Lizentzia honetan sartuta geratuko da, Lizentziaren gorputzean idatzita egongo balitz bezala.</para>

Free Software Foundation-ek noizean behin Hedadura Txikiagoko Lizentzia Publiko Orokorra bertsio berrikusiak edo berriak argitara ditzake. Bertsio berri horiek egungoaren antzekoak izango dira espirituz, baina arazo edo kezka berriei aurre egin beharko dietenez, litekeena da zehatz-mehatz bat ez etortzea.</para>


LIBURUTEGIAREN LIZENTZIA DOAN EMATEN DENEZ, LIBURUTEGIAK EZ DU BERMERIK, LEGE APLIKAGARRIaket ONARTZEN DUEN NEURRIAN, AURKAKORIK ADIERAZTEN EZ DEN KASUETAN, JABETZA INTELEKTUALEKO ESKUBIDEA DUTENEK ETA/EDO BESTE ALDERDI BATZUEK LIBURUTEGIA <quote>DAGOEN-DAGOENEAN</quote> EMATEN DUTE INOLako BERMERIK GABE, EZ ESPRESUKI ADIERAZITAKORIK ETA EZ INPLIZITURIK, BARNE HARTUZ, BAINA HORRETARA MUGATU GABE, MERKATURATZEKO EDO XEDE JAKIN BATERAKO EGOKIKA SANEKIBERAA BERMEAA. LIBURUTEGIAREN KALITATEARI ETA ERRENDIMENDUARI DAGOKIONEZ, ZURE GAIN DAGO ARRISKU GUZTIA. LIBURUTEGIAK AKATSIK IZANGO BALU, KONPONTZEKO EDO ZUZENTZEKO BEHARREZKO ZERBITZU GUZTIEN KOSTUA ZURE GAIN HARTU BEHARKO ZENULE.</para>

<sect2 id="sect16" label="16">
<title>16. atala</title>

<para>LEGE APLIKAGARRIaket edo idatziz jasotako borondatezko akordio batak hala eskatzenez duela, ezin izango diozu jabetza inlektualeko eskubidedunari edo goian baimentzen den bezala liburutegia birbanatu edo alda dezakeen beste alderdi bati erantzukizunik eskatu ez kalteengatik, ez liburutegiaren erabileraren edo erabiltzezko ezgaitasunaren ondorioz sor litezkeen kalte orokor, berezi, gehigarriri edo ondoriozkoengatik (besteak beste, datuak galztzea edo hondatzea, edo zuk edo beste norbaitek jasandako galerrak, edo beste software batekin lan egiteko liburutegiaren huts egiteren bat), nahiz eta eskubidedunari edo beste norbait horri kalteak izan litezkeela aurretik abisatu izan.</para>

</sect2>
</article>
<generator role="maintainer">Free Software Foundation</generator>

<abstract role="description">
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</abstract>

<sect1 id="preamble" label="none">
<title>Preamble</title>
</sect1>

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</sect1>

<sect1 id="terms" label="none">
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<sect2 id="sect0" label="0">
<title>Section 0</title>

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</sect2>

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<title>Section 4</title>

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<title>Section 5</title>

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<title>Section 6</title>

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<title>Section 7</title>

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Az egyes terjesztv vdelmen vilgoss akarjuk tenni: a jelen szabad programknyvtrra nincs jtlls. Ha a programknyvtrat mdostottk s tobbadtk, akkor mindenkinke, aki a mdostott vltzatot kapja, tudnia kell, hogy az nem az eredeti, gy a msok ltal okozott hibnak nem lehet hasznra az eredeti szerz hrnevre.</para>

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Ritkn ugyan, de pldul elfordulhat, hogy igny van egy meghatrozott programknyvtrnak a lehet legszlesebb krben trtn elterjesztsre, hogy az vltsson a de facto szabvnny. Ehhez engedlyezni kell, hogy a nem szabad programok is hasznlassk a programknyvtrat. Gyakoribb eset az, hogy egy szabad programknyvtr ugyanazt a feladatot ltja el, mint a szles krben hasznl nem szabad programknyvtrak. Ebben az esetben igen kevs elny szrmazik a programknyvtr kizrlag szabad szoftverekben felhasznlsra val korltozonsk, teh ilyenkor is az LGPL feltteleit hasznljuk.</para>

Megint ms esetekben egy adott programknyvtr nem szabad programokban felhasznlnak engedlyezse azt jelenti, hogy tbb ember hasznhat szabad szoftvert. Pldul a GNU C Programknyvtr felhasznlsa nem szabad
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A msolsra, terjeszttsre s mdostsra vonatkoz pontos szabályok s feltételek az albbiakban olvashatók. Nagyon fontos megklnhözteni a "Programknyvtar alapul munka" s a "Programknyvtar felhasznál munka" fogalmakat. Az elbbi a programknyvtarbl szrma kdot tartalmaz, mg az utbbi a futshoz igyli a programknyvtar.

A MSOLSRA, TERJESZTSRE S MDOSTSRA VONATKOZ FELTTELEK S KIKTSEK

0. szakasz

Ez a licenc minden olyan programknyvtarra vagy egyb programra vonatkozik, amelyhez a szerzi jog tulajdonosa vagy egyb jogosult fl azt a megjegyzst fizte, hogy az a jelen LGPL-ben (ms nven a "jelen Licencben") foglaltak alapja terjeszhet. Minden engedlvez cmzettje "n". </para>

Programknyvtar alatt fggvnyek s/adatok olyan gyjtemnyt rtjk, amely gy lett elksztve, hogy kinyelmesen számoskészthet legyen alkalmazsprogramokkal (amelyek a fggvnyek s az adatok egy rszt hasznljak), vrehajthat fjl felkészszehez. </para>

Az albbiakban a "Programknyvtar" kifejezéb emljen ilyen programknyvtarra vagy munkra vonatkozik, a "Programknyvtar alapul munka" pedig magt a Programknyvtar vagy egy szerzi joggal vdett munkt jelenti: vagyis olyan munkt, amely tartalmazza a Programknyvtar vagy annak egy rszlett, mdostva vagy mdosts nkl s/vagy ms nyelvre fordva. (Az albbiakban a fords minden egyb megkts nkl beletartozik a "mdosts" fogalmab.)</para>

Egy munka "Forrskdja" a munknak az a formtuma, amelyben a mdostsok elvgzse a legegyszerben kivitelezhet. Egy programknyvtar esetben a teljes forrskd az Itala tartalmazott sszes modul forrskdjt jelenti, valamint minden hozz tartoz illesztdefincis fjl, valamint a programknyvtar fordst s teleptst szabysz parancsfjlakat. </para>

A jelen Licenc a msolson, terjeszttsen s mdostson kvl ms tevkenysre nem vonatkozik, azok a hatlyn kvl esnek. A Programknyvtar hasznl program futtatsa nincs korltoza, illetve a program kimenetre is csak abban az esetben vonatkozik ez a szablosz, ha az tartalmazza a Programknyvtar alapul munka egy rszlett (fgetten attl, hogy a Programknyvtar hasznlt-e egy eszkzb en a megshoz). Az, hogy ez igaz-e, a Programknyvtar, illetve a Programknyvtar hasznl program mkdstl fgg. </para>
A Programknyvtr forrskdja mdosts nlkl msohat s brmely adathordozn terjeszthet, feltve, hogy minden egyes pldnyn pontosan szerepel a megfelel szerzi jogi megjegyzs, illetve a garanciavillals elutasta; rintetlenl kell hagyni minden erre a szablyozsra s a garancia teljes hinya utal szveget s a jelen licencdokumentumot is el kell juttatni mindazokhoz, akik a Programknyvtrat kapj.</para>

Felszmthat dj a msolat fizikai tovbbtsa fejben, illetve ellenszolgltats fejben garancilis tmogats is biztosthat.</sect2>

A Programknyvtr msolatai vagy azok egy rsze mdosthat, amely gy a Programknyvtron alapul munkt alkot. A mdosts ezutn az adott felttelek szerint tovbb terjeszthet, ha az albbi felttelek is teljeslnek: <orderedlist numeration="loweralpha">
  <listitem>
    <para>A mdostott munknak magnak is programknyvtrnak kell lennie.</para>
  </listitem>
  <listitem>
    <para>A mdostott fjlokat el kell ltni olyan megjegyzssel, amely feltnteti a mdosts vgz nevt s a mdostsok dtumt.</para>
  </listitem>
  <listitem>
    <para>A teljes munkt olyan szablyokkal kell kiadni vagy terjeszteni, hogy annak hasznlati joga harmadik szemly rsze licencdjmentesen hozzfrhet legyen, a jelen Licencnek megfelelen.</para>
  </listitem>
  <listitem>
    <para>Ha a mdostott Programknyvtr egy rsze egy olyan fggvnyre vagy adattbira hivatkozik, amelyet egy, az adott rszt hasznl alkalmazprogram biztost, s nem egy tadott argumentumrl van sz annak meghvsakor, akkor mindent el kell kvetni annak rdekben, hogy amennyiben az alkalmazs nem biztostja a szksges fggvnyt vagy adattblt, az adott rsz akkor is mkdkpes maradjon, s vghajtsa, amit csak a mkdsbl addan elvgezhet.</para>
  </listitem>
</orderedlist>

Ezenkvl ms munkknak, amelyek nem a Programknyvtron alapulnak s fgtelten munkkkt elklnl azonosthatnak, akkor ez a szablyozs nem vonatkozik ezekre a rszekre, amennyiben azok kln munkaknt kerlnk terjesztsre. Viszont, ha ugyanez a rsz az egzsz rszeknt kerl terjesztse, amely a Programknyvtron alapul munka, akkor az egzs munka terjesztse csak a jelen dokumentum alapjn lehetsges, amely ebben az esetben a jogokat minden egyes felhasznl szmra kiterjeszti a munka egzszre tekintet nlkl arra, hogy melyik rszt ki rta.</para>

Ezek a felttelek a mdostott munkra, mint egszre vonatkoznak. Ha a munka azonosthat rsz nei nem a Programknyvtron alapulnak s fgtelten munkkkt elklnl azonosthatnak, akkor ez a szablyozs nem vonatkozik ezekre a rszekre, amennyiben azok kln munkaknt kerlnk terjesztsre. Viszont, ha ugyanez a rsz az egzsz rszeknt kerl terjesztse, amely a Programknyvtron alapul munka, akkor az egzs munka terjesztse csak a jelen dokumentum alapjn lehetsges, amely ebben az esetben a jogokat minden egyes felhasznl szmra kiterjeszti a munka egzszre tekintet nlkl arra, hogy melyik rszt ki rta.</para>

E szvegrsznek teht nem az a clja, hogy msok jogait elvegye vagy korltozza a kizrlag sajt maga ltal rt munkkra; a cl az, hogy a jogok gyakorlsz szablyozs legyen a Programknyvtron alapul illetve a gyjemnnyes munkk terjesztse esetben.</para>

Ezenkvl ms munkknak, amelyek nem a Programknyvtron alapulnak, a Programknyvtrral (vagy a
Programknyvtron alapul munkval) kzs adathordozni vagy adattroln szerepeltetse nem jelenti a jelen szablyok
rvnyessgt azokra is.</para>

<title>3. szakasz</title>

<para>n vlaszthatja azt, hogy a Programknyvtr egy adott pldnrya vonatkozoz a norml GNU General Public
License hasznlatt kti ki s nem a jelen Licencet. Ehhez meg kell vtloztatni az erre a licencre hivatkoz szsz
figyelmeztetst, gy, hogy azok a jelen licenc helyett a norml GNU General Public License (GPL) 2. verzija
hivatkozzanak. (Ha a norml GNU General Public License-bl a 2. verzinn frissebb jelenne meg, akkor azt a verzit is
elrhatja, ha akarja). Egyb vtloztatst ne tegyen a figyelmeztetsekben. </para>

<para>Miutn a mdosts megtrnt, az visszafordthatatlan az adott pldnrya vonatkozoz, vagyis a GNU General
Public License fog vonatkozni annak szsz tovbbi msolatra s az abbl a pldnbl szrmaztatott sszes munkra. </para>

<para>Ez a lehetsg akkor hasznos, ha a Programknyvtr kdjnak egy rszt egy olyan programba akarja illeszteni,
amelyik nem programknyvtr.</para>

<title>4. szakasz</title>

<para>A Programknyvtr (vagy a programknyvtron alapul munka a link linkend="sect2">2. szakasznak</link>
megfelelen) mslhat s terjeszhet trgykd vagy vyrehajthat kd formjban az <link linkend="sect1">1.</link> s <link
linkend="sect2">2. szakaszban foglaltak szerint, feltve, hogy a teljes, gp ltd rtelmezhet forrskd ksr az
anyagot, amelynek terjeszze az <link linkend="sect1">1.</link> s <link linkend="sect2">2. szakaszban
foglaltak szerint trtnik, jellemzen szoftverterjesztstre hasznlt adathordozn. </para>

<para>Ha a trgykd terjeszze azt jelenti, hogy lehetsg van lemsolni egy meghatrozott helyrl, akkor ez teljesti a
forrskd terjesztstre vonatkoz ktelezettsget, br a harmadik felek nem ktelesek a forrskdot a trgykddal egytt
lemsolni./para>

<title>5. szakasz</title>

<para>Az olyan Programknyvtrat, amely nem tartalmazza a Programknyvtr semmilyen rsznek leszmazottjt, de
gy kstz, hogy a Programknyvtrral egyttmkdjn, hozzfordts vagy hozzszerkeszt tjn, <quote>Programknyvtrat hasznln
munknak</quote> nevezzk. Az ilyen munkk elszigetelten nem szmtnak a Programknyvtr szrmaztatott munknknak,
gy a jelen Licenc hatlyn kvl esnek. </para>

<para>Egy, a <quote>Programknyvtrat hasznln munka</quote> a Programknyvtr sszeszerkesztse azonban egy
olyan vyrehajthat fjt eredmnyez, amelyik a Programknyvtr szrmaztatott munkja (hiszen tartalmazza a
Programknyvtr rszeit), nem pedig a <quote>Programknyvtrat hasznl munka</quote>. A vgrehajthat fjira teht vonatkozik a jelen Licenc. A <link linkend="sect6" >6. szakasz</link> tagalja az ilyen vgrehajthat fjok terjesztnek feltteleit.</para>

<p>Ha egy <quote>Programknyvtrat hasznl munka</quote> egy olyan fejlecdfjl anyagt hasznlja, amelyik a Programknyvtr rsze, akkor a munka trgykdja lehet a Programknyvtr szrmzatott munkjka, akkor is, ha maga a forrskd nem az. Az, hogy ez igaz-e, klnsen fonts, ha az adott munka sszeszerkeszthet a Programknyvtr nkl is, vagy ha a munka maga is egy programknyvtr. Azt, hogy ez mikor igaz, a trvny szemblyozza pontosan.</p>

<p>Ha egy ilyen objektumfjl csak numerikus paramtereket, adatstruktura-elrendezseket, -hozzfrseket, kisebb makrkat s kisebb begyazott fggvnyeket (nem tbb, mint tz sonyit) hasznl, akkor az objektumfjl hasznlata nem korltozott, figyelni attl, hogy szrmzatott munka-e vagy sem. (A trgykdot s a Programknyvtr rszeit tartalmaz vgrehajthat fjok tovbba is a <link linkend="sect6" >6. szakasz</link> hatlya al tartoznak.)</p>

<p>Habenn esetben, ha a munka a Programknyvtr szrmzatott munkjka, akkor a trgykdja terjeszhet a <link linkend="sect6" >6. szakasz</link> feltteleinek megfelelen. A munka tartalmaz vgrehajthat fjok szintn a <link linkend="sect6" >6. szakasz</link> hatlya al esnek, akkor is, ha nincsenek kvezetlen a Programknyvtrral sszeszerkeszve.</para>

<p>A fenti szakaszok kivteleknt egy, a <quote>Programknyvtrat hasznl munka</quote> egyesthet vagy sszeszerkeszthet a Programknyvtrral, hogy ltrejzn egy olyan munka, amely tartalmazza a Programknyvtr rszeit, s az ilyen munka terjeszthet az n tal vlasztott felttelek szerint is, feltve, hogy ezek a felttelek megengedik a munka szabad mdostst a vsrl sajt hasznlatra s az ilyen mdostok hibakeressre szolgl visszafejtst.</para>

<p>A munka minden egyes pldnyn megfelelen jelezni kell, hogy a Programknyvtr hasznlja, s hogy a hasznlatot a jelen Licenc szablyozza. Mellkeli kell a jelen Licenc egy pldnyt. Ha a munka vgrehajts kben szerzi jogi megjegyzseket jelent meg, akkor ezek kzt szerepelnie kell a Programknyvtr szlerj jogi megjegyzsekn is, valamint egy hivatkoznak, amely a felhasznl a jelen Licenc egy pldnhoz irnytja. Tovbb az albbiaik egyikt biztostani kell: <orderedlist numeration="loweralpha">
<li>A munka mell mellkeli kell a Programknyvtr teljes, gppel olvashat forrskdjl, jelezve, hogy a (fenti <link linkend="sect1" >1.</link>) s <link linkend="sect2" >2.</link>) szakaszoknak megfelelen terjesztett munkban milyen mdostok tnttek; valamint, ha a munka egy, a Programknyvtrral sszeszerkeszett vgrehajthat fj, a teljes <quote>Programknyvtrat hasznl munka</quote> gppel olvashat kdj, ahhoz hogy trgykdkt s/vagy forrskdkt a felhasznl mdosthassa a Programknyvtrat s uta tserkeszthesse azt egy olyan mdostott vgrehajthat fj ellthzho, amely tartalmazza a Programknyvtrat. (Termeszetesen elfordulhat, hogy a Programknyvtr defincis fjijainak tartalmt megvitoztat felhasznl nem felttlenl lesz kpes jrafordtani az alkalmazst a mdostott defincikk.)</li>
</orderedlist>

<p>Egy megfelel megosztott Programknyvtr-mechanizmus hasznlata a Programknyvtrral val sszeszerkesztshszhez. Megfelel mechanizmus az olyan, amely (1) futsi idben a programknyvtr egy, mre a felhasznl szmptprendszern megtallhat pldnyt hasznlja, nem pedig bemoslja a programknyvtr egyes fggvnyeit a vgrehajthat fjj, tovb (2) megfelelen mkdik a programknyvtr mdostott vlozatval is, ha a felhasznl egy olyat telept, feltve, hogy a mdostott verzi interfse kompatibilis azzal a verzival, amelyikkel a munka kszlt.</p>
Vgrehajthat fjl esetben a <quote>Programknyvtrat hasznlunk</quote> elvrt formjnak tartalmaznia kell minden adatot s segdprogramot, amelyre szksg van a bellk szrmaz vgrehajthat fjl elllshoz. Specils kivtelknt a terjesztett anyagoknak nem kell semmi olyat tartalmaznia, amelyek norml esetben azon opercis rendszer f rszeivel (fordt, kernel stb.) egytt kerlnk terjesztsre (akr forrskdknt, akr binris formban), amelyen a vgrehajthat fjl futni fog, kivve, ha a komponens maga a vgrehajthat fjlal egytt rkezik. </para>

Elfordulhat, hogy ez a kvetelmny ellentmond ms szellemi tulajdont kpez programknyvtrak licenckorltozsainak, amelyek norml esetben nem jrnak az opercis rendszer mell. Az ilyen ellentmonds azt jelenti, hogy nem hasznlatja azokat s a Programknyvtrat egytt egy terjeszteni kvnt vgrehajhatat fjlban.</sect2>

n elhelyezheti a programknyvtr egyes rszeit, amelyek a Programknyvtron alapul munknak szmtanak, egym mellett egyetlen programknyvtrban ms programknyvtrak rszeivel egytt, amelyekre nem vonatkozik a jelen Licenc, s az ilyen egyestett programknyvtrat is terjesztheti, feltve, hogy a Programknyvtron alapul munka s a msik programknyvtr rszeinek kln-kln terjesztse egybknt engedlyezett s az albbi kt dolog valamelyikt biztostja:</para>

Az egyestett programknyvtr mell mellkeli a Programknyvtron alapul ugyanazon munkt, amely nincs egyestve semmilyen ms programknyvtr rszeivel. Ezt a fenti rszek feltteleinek megfelelen kell terjeszteni.</sect2>

Megfelel figyelmezettst alkalmaz az egyestett programknyvtr mell a tnyrl, hogy ez rszben a Programknyvtron alapul munka, s elmagyarzza, hogy hol tallhat ugyanazon munka nem egyestett formban.
A Programknyvtrat csak a jelen Licencben lertaknak megfelelően szabad lemsolni, terjeszteni, mdostani s allicencbe adni. Az egyb mdon val msols, mdosts, terjeszts s allicencbe ads rvnytelen, s azonnal rvnytelenl a dokumentumban biztostott jogosultsgokat. Mindazonltal azok, akik a Licencet megszegg kaptak pldn yokat vagy jogokat, tovbb gyakorolhatjik a Licenc ital meghatrozott jogaikat mindaddig, ung teljes mrtkben megfelelnek a Licenc felteleneinek. </para>
</sect2>

Nem ktelez elfogadnia ezt a szablyozst, hiszen nem rta al. Ezen kvl viszont semmi ms nem ad jogokat a Programknyvtr vagy a szrmaztatott munkk terjesztsre s mdostrsra. Ezeket a cseleketedeteket a trvny bnteti, ha nem a jelen szerzi jogi szablyozs keretei kzt trtnnek. Mindezek miatt a Programknyvtr (vagy a Programknyvtron alapul munka) terjesztsze vagy mdosta a jelen dokumentum szablyainak, s azon bell a Programknyvtr vagy a munka mdostrsra, msolsra vagy terjesztsre vonatkoz szesz feltettnek elfogadst jelenti. </para>
</sect2>

Minden alkalommal, amikor a Programknyvtr (vagy az azon alapul munka) tovbbsda trtnik, a Programknyvtr megkap szemly automatikusan hozzijut az eredeti licenctulajdonostl szrmaz licencez, amely a jelen szablyok szerint biztosja a jogot a Programknyvtr msolsra, terjesztsre, szerkesztshz felhasznlsra s mdostrsra. Nem lehet semmilyen mdon tovbb korltozni a fogad flnek az itt megadott jogait. A Programknyvtr tovbbadja nem felels harmadik szemlyekkel betartatni a jelen szablyokat. </para>
</sect2>

Ha brsgi hatrozat, szabadalomsrts vleme, vagy egyb (nem kizrlag szabadalmakkal kapcsolatos) okbl olyan felttelekek kell megfelelnie (akr brsgi hatrozat, akr megllapods, akr brmi ms eredmnyekpp), amelyek ellenttesek a jelen felttelekkel, az nem menti fel a terjesztj a jelen felttelek figyelembevtele all. Ha a terjeszs nem lehetsges a jelen Licenc s az egyb felttelek ktelezzettseinek egyetes betartstval, akkor titos a Programknyvtr terjesztst. Ha pldl egy licenccsabadalom nem engedi meg egy programknyvtr jogdj nkli tovbsterjesztst azok szmra, akik kvtet vagy kvtetlen megkapjik, akkor az egyetlen mdja, hogy eleget tegyen valaki mindkt feltttnek, az, hogy ell a programknyvtr terjesztst.</para>
</sect2>

Ha ennek a szakasznak brmely rsze rvnytelen, vagy nem rvnyesthet valamely krlmny folytynt, akkor a szakasz fennmarad rszt kell alkalmazni, egyb esetekben pedig a szakasz egssz alkalmaazand. </para>
</sect2>

Ennek a szakasznak nem az a clja, hogy a szabadalmak vagy egyb hasonl jogok megsrtsre sztnzzs brkit is; mindssze meg szeretn vdeni a szabad szoftver terjesztsi rendszernek egysgt, amelyet a szabad kreadst szablyoz felttelrendszerek teremtenek meg. Sok ember nagymrtkben jrult hozz az e rendszer keretben terjesztett, klnfe szoftverekhez, s szmt a rendszer kvetkezetes alkalmaazra; azt a szerz/adomnyoz dnti el, hogy a szoftvert ms rendszer
szerint is kzz kvnja-e tenni, s a licencet kapk ezt nem befolyoshatjik. </para>

<para>E szakasz clja, hogy pontosan tisztzza azt, ami elgondolsunk szerint a jelen licenc tbbi rsznek a kvetkezmnye.</para>

</sect2>

<sect2 id="sect12" label="12">
<title>12. szakasz</title>

<para>Ha a Programknyvtr terjesztse s/vagy hasznalata egyes orszgokban nem lehetsges akr szabadalmak, akr szerzi jogokkal vdett felletek miatt, akkor a Programknyvtr szerzi jogainak eredeti tulajdonosa, aki a Programknyvtrat ezen szablyozs alapjn adja krze, egy explicsit fidrajzi megktst adhat a terjesztsre, s egyes orszgokat kizrhat. Ebben az esetben gy tekintend, hogy a jelen licenc ezt a megktst is tartalmazza, ugyangy, mintha az a szvegben lenne lerva.</para>

</sect2>

<sect2 id="sect13" label="13">
<title>13. szakasz</title>

<para>A Free Software Foundation idrl idre kiadja a GNU Lesser General Public License (LGPL) fellvizsglt s/vagy jabb vltozatait. Ezek az jabb dokumentumok az elzek szellemben kszn, de rszletekben klnzhetnek, hogy j problmkat vagy agglyokat is kezeljenek.</para>

<para>A dokumentum minden vltozata egy megklnbztet verziszmmal elltva jelenik meg. Ha a programknyvtr szerzi jogi megjegyzsben egy bizonyos vagy annl <quote>jabb verzi</quote> van megjellve, akkor lehetsg van akr a megjellett, vagy a Free Software Foundation ital kiadott ksb verziiban lert felttelek kvsre. Ha nincs ilyen megjellett verzi, akkor lehetsg van a Free Software Foundation ital valaha kibocstott brmelyik verzi alkalmazsra.</para>

</sect2>

<sect2 id="sect14" label="14">
<title>14. szakasz</title>

<para>A Programknyvtrat ms szabad szoftverbe, amelynek szerzi jogi szablyozsa klnbzik, csak akkor ptheti be, ha a szerztl erre engedlyt szerzett. Abban az esetben, ha a programknyvtr szerzi jogainak tulajdonosa a Free Software Foundation, akkor a Free Software Foundation cmre kell rni; nha kivtelt tesznk. A dnts a kvetkez kt el szem eltt tartsval fog trtnni: megmaradjon a szabad szoftveren alapul munkk szabad llapota, valamint segtse el a szoftver jrafelhasznlst s megosztst.</para>

</sect2>

<sect2 id="sect15" label="15">
<title>GARANCIAVLLALS HINYA</title>

<subtitle>15. szakasz</subtitle>

<para>MIVEL A JELEN PROGRAMKNYVTR HASZNLATI JOGA DJMENTES, AZ ALKALMAZHAT JOGSZABLYOK LTAL BIZTOSTOTT MAXIMLIS MRTKBEN VISSZAUTASTJUK A PROGRAMKNYVTRHOZ A GARANCIA BIZTOSTST. AMENNYIBEN A SZERZI JOGOK TULAJDONOSAI RSBAN MSKNT NEM NYILATKOZNAK, A PROGRAMKNYVTR A <quote>JELEN Llapotban</quote> KERL KIADSRA, MINDENFLE GARANCIAVLLALS NLKL, LEGYEN AZ KIFEJEZETT VAGY
BELERTETT, BELERTVE, DE NEM KIZRLAGOSAN A FORGALOMBAHOZTSGRA VAGY ALKALMAZHATSGRA VONATKOZ GARANCIKAT. A PROGRAMKNYVTR MINSGBL S MKDSBL FAKAD SSZES KOCKZAT A FELHASZNLT TERHELI. HA A PROGRAMKNYVTR HIBSAN MKDIK, A FELHASZNLNAK MAGNAK KELL VLLALNIA A JAVTSHOZ SZKSGES MINDEN KLTSGET. </sect2>

<sect2 id="sect16" label="16">16. szakasz</sect2>

<para>AMENNYIBEN A HATLYOS JOGSZABLYOK VAGY A SZERZI JOGOK TULAJDONOSAI RSOS MEGOLLAPODSBAN MSKNT NEM RENDELKEZNEK, SEM A PROGRAMKNYVTR SZERZJE, SEM MSOK, AKIK MDOSTOTTK S/VAGY TERJESZTETTK A PROGRAMKNYVT A A FENTIEKNEK MEGFELELEN, NEM TEHETK FELELSS A KROKRT, BELERTVE MINDEN VLETLEN, VAGY KVETKEZMNYES KRT, AMELY A PROGRAMKNYVTR HASZNLATBL VAGY A HASZNLAT MEGAKADLYOZSBL SZRMAZIK (BELERTVE, DE NEM KIZRLAGOSAN AZ ADATVESZTST S A HELYTELEN ADATFELDOGOZST, VALAMINT A MS PROGRAMKNYVTRAKKAL VAL HIBS EGYTTMKDST), MG AKKOR SEM, HA EZEN FELEK TUDATBAN VOLTAK, HOGY ILYEN KROK KELETKEZHTENK. </sect2>

</sect2>
</sect1>
</article>
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Section 5</title>

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

</para>

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

</para>

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

</para>

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

</para>

</sect2>
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies,
or rights, from you under this License will not have their licenses
terminated so long as such parties remain in full compliance.
</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Secci 9</title>

<para>No esteu obligat a acceptar aquesta llicncia, ja que no l'heu signada. Tanmateix, no hi ha cap altra opci
que us doni perms per modificar o distribuir la biblioteca o les seves obres derivades. Aquestes accions queden
prohibides per la llei si no accepteu aquesta llicncia. Aix doncs, en modificar o distribuir la biblioteca o les seves
obres derivades, indiqueu que accepteu aquesta llicncia per a fer-ho, i tots els seus termes i condicions per copiar,
distribuir o modificar la biblioteca o obres que hi estiguin basades.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Secci 10</title>

<para>Each time you redistribute the Library (or any work based on the
Library), the recipient automatically receives a license from the
original licensor to copy, distribute, link with or modify the Library
subject to these terms and conditions. You may not impose any further
restrictions on the recipients’ exercise of the rights granted herein.
You are not responsible for enforcing compliance by third parties with
this License.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Secci 11</title>

<para>Si, a conseqüència d'una decisi judicial, una demanda per infracció d'una patent o per qualsevol altra ra (no
exclusivament relacionada amb patents), se us imposen condicions (tant si s per ordre judicial, acord, o el que sigui)
que contradiuen les condicions d'aquesta llicncia, no quedeu excusat de les condicions d'aquesta llicncia. Si no us s
possible distribuir de manera que satisfueixi alhora les obligacions que us imposa aquesta llicncia i qualsevol altra
obligació pertinent, aleshores no podeu distribuir el programa en absolut. Per exemple, si una llicncia de patent no
permets redistribuir gratuitament la biblioteca a aquells que hagin rebut cpies de vs directament o indirecta, aleshores
la nica manera en qu podreu satisfacer tant aix com aquesta llicncia seria abstenir-vos completament de distribuir la
biblioteca.</para>

<para>Si qualsevol fragment d'aquesta secci queds invalidat o no es pogu fer complir en qualsevol circumstncia
particular, la intenci s que s'apliqu el balan de la secci, i que s'apliqu la secci en la seva totalitat en altres
circumstncies.</para>

<para>El propis d'aquesta secci no s induir-vos a infringir cap patent ni cap altre requeriment del dret a la
propietat, o a discutir-ne la validesa; l'inic propis d'aquesta secci s protegir l'integritat del sistema de distribuci de
programari lliure, que s'implementa amb prctiques de llicncia pblica. Molta gent ha fet generoses contribucions a
l'ampli ventall de programari distribut per aquest sistema refiant-se de l'aplicació consistent del sistema; li pertoca a l'autor, autora o donant decidir si vol distribuir programari per algun altre sistema, i un beneficiari de la llicència no pot imposar aquesta elecció.</para>

Aquesta secció pretén deixar del tot clar el que es considera una conseqüència de la resta de la llicència.</sect2>

Si hi ha pasos que restrinigeixen la distribució o l'ús de la biblioteca, ja sigui per patents o per interfícies sota copyright, el possessor del copyright original que posi la biblioteca sota aquesta llicència pot afegir limitacions geogràfiques explícites que exclouin aquests pasos, de manera que la distribució només quedi permesa dins dels pasos no exclosos, o entre ells. En tal cas, aquesta llicència incorpora la limitació com si estigués escrita en el text de la llicència.</sect2>

The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and any later version, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing and reuse of software generally.
</para>
</sect2>

<sect2 id="sect15" label="15">
<title>SENSE GARANTIA</title>
<subtitle>Secci 15</subtitle>

<para>ATS QUE LA BIBLIOTECA T UNA LLICENCIA GRATUTA, NO SE N'OFEREIX CAP TIPUS DE GARANTIA, EN LA MESURA PERMESA PER LES LLEIS APLICABLES. LLEVAT DELS CASOS EN QU S'AFIRMI EL CONTRARI PER ESCRIT, ELS LLICENCADORS I/O LES ALTRES PARTS OFEREIXEN LA BIBLIOTECA <quote>TAL COM S</quote>, SENSE CAP TIPUS DE GARANTIA, NI EXPLICITA NI IMPLICITA: AIX INCLOU, SENSE LIMITAR-SHI, LES GARANTIES IMPLICITES DE COMERCIALITZACI I ADEUACI A UN S CONCRET. TOT EL RISC PEI QUE FA A LA RENDITIMET DE LA BIBLIOTECA S VOSTRE. EN CAS QUE LA BIBLIOTECA RESULTS DEFECTUOSA, VS ASSUMIU TOT EL COST D’ASSISTNCIA, REPARACI O CORRECCI.</para>
</sect2>

<sect2 id="sect16" label="16">
<title>Secci 16</title>

</sect2>
</sect1>
</article>
As licenças de muitos softwares são desenvolvidas para restringir sua liberdade de compartilhá-lo e mudá-lo. Contrário a isso, a Licença Pública Geral GNU pretende garantir sua liberdade de compartilhar e alterar software livres -- garantindo que o software ser livre e gratuito para os seus usuários.

Quando nos referimos a software livre, estamos nos referindo à liberdade, e não ao preço. Nossas Licenças Públicas foram desenvolvidas para garantir que você tenha a liberdade de distribuir cópias de softwares livres (e cobrar por este serviço, se quiser); que você receba o código-fonte ou tenha acesso a ele, se quiser; que você possa alterar o software ou utilizar partes dele em novos programas livres; e que você saiba que pode fazer tudo isso.

Para proteger seus direitos, precisamos fazer restrições que impeçam a qualquer um de negar estes direitos ou solicitar que você abdique deles. Estas restrições traduzem-se em certas responsabilidades para você, se você for distribuir cópias do software ou modificá-lo.

Por exemplo, se você distribuir cópias de um programa, gratuitamente ou por alguma quantia, você tem que fornecer aos receptores todos os direitos que você possuí. Você tem que garantir que eles também recebam ou possam obter o código-fonte. E você tem que mostrar-lhes estes termos para que eles possam conhecer seus direitos.

Nossos direitos são protegidos em dois passos: 

1. com direitos autorais do software; e
2. com a oferta desta licença, que lhe dá permissão legal para copiar, distribuir e/ou modificar o software.

Além disso, tanto para o protego de cada autor quanto a nossa, gostaríamos de nos certificar de que todos entendam que não há qualquer garantia nestes softwares livres. Se o software modificado por algum mais e passado adiante, queremos que seus recebedores saibam que o que eles obtiveram não é o original, de forma que qualquer problema introduzido por terceiros não interfira na reputação do autor original.

Finalmente, qualquer programa livre ameaçado constantemente por patentes de software. Queremos evitar o perigo de que redistribuidores de software livre obtenham individualmente licenças de patentes, o que teria o efeito de tornar o programa proprietário. Para prevenir isso, deixamos claro que qualquer patente tem que ser licenciada para uso livre e gratuito por qualquer pessoa, ou então que não seja licenciada.

Os precisos termos e condições para cópia, distribuição e modificação se encontram abaixo.
<<sect2 id="sect0" label="0">
<title>Seo 0</title>
<para>Esta Licena se aplica a qualquer programa ou outro trabalho que contenha um aviso colocado pelo
detentor dos direitos autorais informando que aquele pode ser distribuido sob as condies desta Licena Pblica Geral. O
<quote>Programa</quote> abaixo refere-se a qualquer programa ou trabalho, e <quote>trabalho baseado no
Programa</quote> significa tanto o Programa em si como quaisquer trabalhos derivados, de acordo com a lei de
direitos autorais: isto quer dizer um trabalho que contenha o Programa ou parte dele, tanto originalmente quanto
com modificaes, e/ou traduo para outro idioma. (Doravante traduo est includo sem limites no termo
<quote>modificao</quote>.) Cada licenciado  mencionado como <quote>voc</quote>.</para>
</sect2>

<<sect2 id="sect1" label="1">
<title>Seo 1</title>
<para>Voc pode copiar e distribuir cpias fiis do cdigo-fonte do Programa da mesma forma que voc o recebeu,
usando qualquer meio, desde que voc conspsua e apropriadamente publique em cada copia um aviso de direitos
autorais e uma declarao de inexistncia de garantias de forma apropriada; mantenha intactos todos os avisos que se
referem a esta Licena e ausncia total de garantias; e fornea a outros recebedores do Programa uma copia desta
Licena, junto com o Programa.</para>
<para>Voc pode cobrar pelo ato fsico de transferir uma copia e pode, opcionalmente, oferecer garantia em troca
de pagamento.</para>
</sect2>

<<sect2 id="sect2" label="2">
<title>Seo 2</title>
<para>Voc pode modificar sua copia ou cpias do Programa, ou qualquer parte dele, assim gerando um trabalho
baseado no Programa, e copiar e distribuir essas modificaes ou trabalhos sob os termos da <link
linkend="sect1">Seo 1</link> acima, desde que voc tambm se atenda a todas estas condies: <orderedlist
numeration="loweralpha">
<li><para>Voc tem que fazer com que os arquivos modificados levem avisos proeminentes afirmando que voc alterou
os arquivos, incluindo a data de qualquer alterao.</para></li>
<li><para>Voc tem que fazer com que quaisquer trabalhos que voc distribua ou publique, e que integralmente ou em
partes contenham ou sejam derivados do Programa ou de suas partes, sejam licenciados, integralmente e sem custo
algum para quaisquer terceiros, sob os termos desta Licena.</para></li>
<li><para>Se o programa modificado normalmente l comandos interativamente quando executados, voc tem que
fazer com que, quando iniciado tal uso interativo da forma mais simples, seja impresso ou mostrado um anncio de
direitos autorais um e anncio de que no h qualquer garantia (ou ento, que voc fornece a garantia) e que os usuarios
podem redistribuir o programa sob estas condies, ainda informando os usuarios como consultar uma cpia desta
Licena.</para></li>
</orderedlist>
</sect2>
Licença. <note>
<title>Exceo:</title>
<para>se o Programa em si interativo mas normalmente no imprime estes tipos de anncios, seu trabalho baseado no Programa no precisa imprimir um anncio.</para>
</note></para>
<liitem></liitem></para>
</listitem></orderedlist></para>

<para>Estas exigencias aplicam-se ao trabalho modificado como um todo. Se sees identificveis de tal trabalho no forem derivadas do Programa, e que podem ser razoavelmente consideradas trabalhos independentes e separados por si s, ento esta Licena, e seus termos, no se aplicam a estas sees quando voc distribu-las como trabalhos em separado. Mas quando voc distribuir as mesmas sees como parte de um todo, o qual baseado no Programa, a distribuio como um todo deve que se enquadrar nos termos desta Licena, cujas permisses para outros licenciados se estendem ao todo, portanto para cada e toda parte, independente de quem a escreveu.</para>

<para>Desta forma, esta seo no tem a inteno de reclamar direitos ou contestar seus direitos sobre o trabalho escrito inteiramente por voc; ao invs disso, a inteno a de exercitar o direito de controlar a distribuio de trabalhos, derivados ou coletivos, baseados no Programa.</para>

Adicionalmente, a mera agregao ao Programa de outro trabalho baseado no Programa (ou de trabalho baseado no Programa) em um volume de armazenamento ou meio de distribuio no faz o outro trabalho parte do escopo desta Licena.</para>

</sect2>

Voc pode copiar e distribuir o Programa (ou um trabalho baseado nele, conforme descrito na <link linkend="sect2">Seo 2</link>) em cdigo-objeto ou em forma executvel sob os termos das <link linkend="sect1">Sees 1</link> e <link linkend="sect2">2</link> acima, desde que voc tambm faa um dos seguintes itens: <orderedlist numeration="loweralpha">
<liitem>
<para>O acompanhe com o cdigo-fonte completo correspondente e em forma acessvel por mquinas, que deve ser distribuido sob os termos das <link linkend="sect1">Sees 1</link> e <link linkend="sect2">2</link> acima e em meio normalmente utilizado para o intercmbio de software; ou,</para>
</liitem>
<liitem>
<para>O acompanhe com uma oferta expressa, vlida por pelo menos trs anos, de fornecer a qualquer terceiros, com um custo no superior ao custo de distribuio fsica do material, uma cpia do cdigo-fonte completo e em forma acessvel por mquinas, que deve ser distribuido sob os termos das Sees 1 e 2 acima e em meio normalmente utilizado para o intercmbio de software; ou,</para>
</liitem>
<liitem>
<para>O acompanhe com a informao que voc recebeu em relao oferta de distribuio do cdigo-fonte correspondente. (Esta alternativa permitida somente em distribuio no comercial, e apenas se voc recebeu o programa em forma de cdigo-objeto ou executvel, com oferta, de acordo com a Subseo b acima.)</para>
</liitem>
</orderedlist></para>
<para>O código-fonte de um trabalho corresponde à forma de trabalho preferida para se fazer modificações. Para um trabalho em forma executável, o código-fonte completo significa todo o código-fonte de todos os módulos que ele contém, mais quaisquer arquivos de definição de "interface", mais os "scripts" utilizados para se controlar a compilação e a instalação do executável. Contudo, como exceção especial, o código-fonte distribuído no precisa incluir qualquer componente normalmente distribuído (tanto em forma original quanto binária) com os maiores componentes (o compilador, o "kernel" etc.) do sistema operacional sob o qual o executável funciona, a menos que o componente em si acompanhe o executável.</para>

<para>Se a distribuição do executável ou código-objeto feita através da oferta de acesso a cópias de algum lugar, então ofertar o acesso equivalente a cópia, do mesmo lugar, do código-fonte equivale a distribuição do código-fonte, mesmo que terceiros no sejam compelidos a copiar o código-fonte com o código-objeto.</para>

<sect2 id="sect4" label="4">
<title>Seo 4</title>

<para>Você não pode copiar, modificar, sub-licenciar ou distribuir o Programa, exceto de acordo com as condições expressas nesta Licença. Qualquer outra tentativa de cópia, modificação, sub-licenciamento ou distribuição do Programa vetado, e cancelar automaticamente os direitos que lhe foram fornecidos por esta Licença. No entanto, terceiros que receberam cópias ou direitos, fornecidos por você sob os termos desta Licença, no terão suas licenças canceladas, desde que permaneçam em total concordância com ela.</para>

</sect2>

<sect2 id="sect5" label="5">
<title>Seo 5</title>

<para>Você não obrigado a aceitar esta Licença, já que não a assinou. No entanto, nada mais o dar permissão para modificar ou distribuir o Programa ou trabalhos derivados deste. Estas ações são proibidas por lei, caso você aceite esta Licença. Desta forma, ao modificar ou distribuir o Programa (ou qualquer trabalho derivado do Programa), você estará indicando sua total aceitação desta Licença para fazê-los, e todos os seus termos e condições para copiar, distribuir ou modificar o Programa, ou trabalhos baseados nele.</para>

</sect2>

<sect2 id="sect6" label="6">
<title>Seo 6</title>

<para>Cada vez que você redistribuir o Programa (ou qualquer trabalho baseado nele), os recebedores adquirirão automaticamente do licenciador original uma licença para copiar, distribuir ou modificar o Programa, sujeitos a estes termos e condições. Você não poderá impor aos recebedores qualquer outra restrição ao exercício dos direitos ento adquiridos. Você também fazendo garantir a concordância de terceiros a esta Licença.</para>

</sect2>

<sect2 id="sect7" label="7">
<title>Seo 7</title>

<para>Se, em consequência de decisões judiciais ou alegações de infringimento de patentes ou quaisquer outras razões (no limitadas a assuntos relacionados a patentes), condições forem impostas a você (por ordem judicial, acordos ou</para>
outras formas) e que contradigam as condições desta Licença, elas não o livram das condições desta Licença. Se você não puder distribuir de forma a satisfazer simultaneamente suas obrigações para com esta Licença e para com as outras obrigações pertinentes, então como consequência você não pode distribuir o Programa. Por exemplo, se uma licença de patente não permitir a redistribuição, livre de "royalties", do Programa, por todos aqueles que receberem cópias direta ou indiretamente de você, então a única forma de você satisfazer a ela e a esta Licença seria a de desistir completamente de distribuir o Programa.</para>

<para>Se qualquer parte desta seção for considerada inválida ou não aplicável em qualquer circunstância particular, o restante da seção se aplica, e a seção como um todo se aplica em outras circunstâncias.</para>

<para>O propósito desta seção não é de induzi-lo a infringir quaisquer patentes ou reivindicações de direitos de propriedade outros, ou a contestar a validade de quaisquer dessas reivindicações; esta seção tem como único propósito proteger a integridade dos sistemas de distribuição de software livres, o que implementado pela prática de licenças públicas. Várias pessoas têm contribuído generosamente e em grande escala para os software distribuídos usando este sistema, na certeza de que sua aplicação é feita de forma consistente; fica a critério do autor/doador decidir se ele ou ela está disposto a distribuir software utilizando outro sistema, e um licenciado não pode impor qualquer escolha.</para>

<para>Esta seção destina-se a tornar bastante claro o que se acredita ser consequência do restante desta Licença.</para>

<sect2 id="sect8" label="8">
<title>Seção 8</title>

<para>Se a distribuição e/ou uso do Programa so restringidos em certos países por patentes ou direitos autorais, o detentor dos direitos autorais original, e que colocou o Programa sob esta Licença, pode incluir uma limitação geográfica de distribuição, excluindo aqueles países de forma a tornar a distribuição permitida apenas entre aqueles países ento no excluídos. Nestes casos, esta Licença incorpora a limitação como se a mesma constasse escrita nesta Licença.</para>

<sect2 id="sect9" label="9">
<title>Seção 9</title>

<para>A Free Software Foundation pode publicar versões revisadas e/ou novas da Licença Pública Geral de tempos em tempos. Estas novas versões serão similares em espírito à versão atual, mas podem diferir em detalhes que resolvem novos problemas ou situações.</para>

<para>A cada verso dada um número distinto. Se o Programa especifica um número de verso específico desta Licença que se aplica a ele e a “qualquer nova verso”, você tem a opção de aceitar os termos e condições daquela verso ou de qualquer outra verso publicada pela Free Software Foundation. Se o Programa não especifica um número de verso desta Licença, você pode escolher qualquer verso já publicada pela Free Software Foundation.</para>

<sect2 id="sect10" label="10">
<title>Seção 10</title>

<para>Se você pretende incorporar partes do Programa em outros programas livres, cujas condições de distribuição so
diferentes, escreva ao autor e solicite permissão. Para o software que a Free Software Foundation detém direitos autorais, escreva Free Software Foundation; às vezes nós permitimos exceções a este caso. Nossa decisão será guiada pelos dois objetivos de preservar a condição de liberdade de todas as derivações do nosso software livre, e de promover o compartilhamento e reutilização de software em aspectos gerais.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>AUSNCIA DE GARANTIAS</title>
_subtitle=Seo 11/subtitle=

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</sect2>

<sect2 id="sect12" label="12">
<title>Seo 12</title>

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</sect2>
</sect1>
</article>
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<abstract role="description">
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</para>
</listitem>
</listitem>
<para>
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must cause it, when started running for such interactive use in the most
ordinary way, to print or display an announcement including an appropriate
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under these conditions, and telling the user how to view a copy of this
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</para>
</note>
<title>Exception:</title>
<para>
If the Program itself is interactive but does not normally print such an
announcement, your work based on the Program is not required to print an
announcement.
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</sect2>
<sect2 id="sect3" label="3">
<title>3</title>
<para>
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Accompany it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

sect7

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sect8

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sect9

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sect10

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sect11

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sect12

12

<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE article PUBLIC "-//OASIS//DTD DocBook XML V4.1.2//EN" "http://www.oasis-
Llicncia pública general de GNU

Tothom pot copiar i distribuir cpies literals d'aquest document de llicncia, per no es permet de fer-hi modificacions.

Versi 2, Juny de 1991

Les llicncies de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrariament, la Llicncia pública general de GNU est pensada per a garantir-vos la llibertat de compartir i modificar el programari lliure, per tal d'assegurar que el programari sigui lliure per a tots els seus usuaris i usuries.

Titol: Llicncia pública general de GNU

Copyright: <year>2000</year> <holder>Free Software Foundation, Inc.</holder>

Author: Free Software Foundation

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Les llicències de la majoria de programari estan dissenyades per a prendre-us la llibertat de compartir-lo i modificar-lo. Contrariament, la Llicència pública general de GNU est pensada per a garantir-vos la llibertat de compartir i modificar el programari lliure, per tal d'assegurar que el programari sigui lliure per a tots els seus usuaris i usuaries. Aquesta Llicència pública general s'aplica a la majoria de programari de la Free Software Foundation (Fundació per al programari lliure) i a qualsevol altre programari els autors del qual es comprometin a utilitzar-la (algun altre programari de la Free Software Foundation, en canvi, est protetge per la Llicència pública general per a biblioteques de GNU). També podeu aplicar-la als vostres programes.

Quan parlem de programari lliure ens referim a la llibertat, no al preu. Les nostres llicències públiques generals estan pensades per assegurar que tingueu la llibertat de distribuir cpies del programari lliure (i de cobrar per aquest servei, si voleu); que rebueu el codi font o que, si el voleu, el pugueu rebre; que pugueu modificar el programari o fer-ne servir parts en programes lliures nous; i que sapigueu que podeu fer totes aquestes coses.

Per a protegir els vostres drets, cal que apliquem restriccions que prohibeixin a tothom de negar-vos aquests drets o demanar-vos que hi renuncieu. Aquestes restriccions suposen determinades responsabilitats per a vs si distribueu cpies del programari o si el modifiqueu.

Per exemple, si distribueu cpies d'un programa, tant si el distribueu de franc com si en feu pagar un preu, heu de donar als destinataris els mateixos drets que teniu vs. Us heu d'assegurar que ells tamb en rebin o puguin aconseguir-ne el codi font, i els heu de fer saber aquests termes per tal que coneguin els seus drets.

Protegim els vostres drets amb dos passos:
Ens reservem el copyright del programari, i us ofereim aquesta llicència que us dona perms legal per a copiar, distribuir i/o modificar el programari.

A més a més, per protegir-nos i protegir l'autor o autora, volem estar segurs que tothom entn que no hi ha cap garantia per a aquest programari lliure. Si alg modificà el programari i el passà, volem que els destinataris spiguen que el que tenen no s'original, per tal que qualsevol problema que hagin pogut introduir tercres persones no repercutixi en la reputació de l'autor o autora original.

Finalment, qualsevol programa lliure està constantment amenaçat per les patentes de programari. Volem evitar el perill que els redistribuidors d'un programa lliure acabin obtenint llicències de patents i que, com a conseqüència d'això, el programa esdevingui propietat exclusiva d'alg. Per evitar-ho, hem deixat clar que, de qualsevol patent, se n'han d'emetre llicències per a tothom o no emetre'n cap.

Les condicions exactes per a la cpia, distribució i modificació són les següents:

Aquesta llicència s'aplica a qualsevol programa o altra obra que contingui un avís del propietari del copyright que digui que es pot distribuir sota els termes d'aquesta llicència pública general. D'ara endavant, el programa es refereix a aquest programa o obra, una obra basada en el programa es refereix al programa o a qualsevol obra derivada segons la llei de copyright: s'exprima literalment o amb modificacions o en altres llengües (d'ara endavant, les traduccions s'inclouen sense cap limitació en el terme modificació). Ens referim a cada beneficiari de la llicència com a vs.

Les activitats que no siguin cpia, distribució o modificació no es tenen en compte a aquesta llicència, queden fora del seu mbi. No es restringeix l'acte d'executar el programa, i la llicència noms protegeix la producció que s'obtingui al programa si el seu contingut consta d'una obra basada en el programa (independentment de si s'ha creat executant el programa). Que aquest sigui el cas o no depèn de qu qui faci el programa.

Podeu copiar i distribuir copies literal del codi font del programa tal com el rebeu, en qualsevol mitj, sempre que publiqués en cada còpia, de manera adient i ben visible, una nota de copyright i una renúncia de garantia; manté intactes tots els avisos que fan referència a aquesta llicència i a l'absència de garanties de cap mena; i lliureu a qualsevol altre destinatari del programa una còpia d'aquesta llicència juntament amb el programa.
Podeu cobrar un preu per l'acte físic de trametre una còpia i podeu, si així ho volueu, oferir alguna garantia a canvi d'un preu.

Podeu modificar la còpia o còpies del programa o qualsevol tros del programa i, així, fer una obra basada en el programa, i podeu copiar i distribuir aquestes modificacions o obres sota els termes de la Secció 1 anterior, sempre que també compliu les condicions següents:

1. Heu de fer que els fitxers modificats portin indicacions ben visibles que diguin que heu modificat els fitxers, i hi heu d'escriure la data de la modificació.
2. Heu d'atorgar gratuïtement a totes les terceres parts els termes d'aquesta mateixa llicència sobre la totalitat de qualsevol obra que distribueu o publiqueu, que completament o en part contingui o sigui un derivat del programa o qualsevol part del programa.
3. Si el programa modificat normalment llegeix instruccions interactivament quan s'executa, heu de fer que quan s'arrenqui per a aquest s interactiu de la manera ms habitual, imprimeixi o mostri un missatge que inclogui una nota de copyright adient i un avís de que no hi ha garantia (o, si no, que digui que la garantia l'oferiu vs mateix) i que els usuaris poden redistribuir el programa sota aquestes condicions, i que indiqui a l'usuari o usuria com veure una còpia d'aquesta llicència.

Excepció: Si el programa s'interactiu per normalment no porta cap indicació com la que s'ha descrit, tampoc cal que les obres que feu basades en el programa en portin cap.

Aquests requeriments afecten l'obra modificada com un tot. Si hi ha parts identifiables que no estan derivades del programa, i es poden considerar raonablement com a obres independents i separades en si mateixes, aleshores aquesta llicència i els seus termes no s'apliquen a aquelles parts quan les distribueu com a obres separades. Per quan distribueu aquestes mateixes parts integrades en un tot que sigui una obra basada en el programa, la distribució del tot s'ha de fer d'acord amb els termes d'aquesta llicència, i els permisos atorgats a altres beneficiaris abasten el tot sencer i, per tant, totes i cadascuna de les parts, independentment de qui les hagi escrites.

Així doncs, la intenció d'aquesta secció no s reclamar o disputar-vos cap dret a codi que hagueu escrit del tot vs mateix. La intenció és aviat exercir el dret a controlar la distribució d'obres derivades o collectives basades en el programa.

A més a més, la simple agregació amb el programa (o amb una obra basada en el programa) d'altres obres no basades en el programa en un volum d'un mitjà d'emmagatzematament o de distribució no posa aquestes altres obres sota l'ambit de la llicència.
<sect2 id="sect3" label="3">
<title>Secci 3</title>

<p>Podeu copiar i distribuir el programa (o una obra basada en el programa, segons la <link linkend="sect2">secci 2</link>) en forma executable o de codi objecte d'acord amb els termes de les <link linkend="sect1">seccions 1</link> i <link linkend="sect2">2</link> anteriors, amb la condici que tamb feu una de les coses segents: <orderedlist numeration="loweralpha">
<li><para>L'acompanyeu amb el codi font complet corresponent, capa de ser llegit per un ordinador, que es distribuir d'acord amb els termes de les <link linkend="sect1">seccions 1</link> i <link linkend="sect2">2</link> anteriors en un mitjà utilitzat habitualment per a l'intercanvi de programari; o, </para></li>
<li><para>L'acompanyeu amb un oferiment per escrit, amb validesa com a mínim fins al cap de tres anys, de subministrar a tota tercera part, i per un preu no superior al que us costi físicament realitzar la distribució, el codi font complet corresponent, que es distribuir d'acord amb els termes de les seccions 1 i 2 anteriors en un mitjà utilitzat habitualment per a l'intercanvi de programari; o, </para></li>
<li><para>L'acompanyeu amb la informaci que hagueu rebut de l'oferiment de distribuir el codi font corresponent (aquesta alternativa no es permesa per a la distribució no comercial i no es permesa el programa en forma executable o de codi objecte amb aquest oferiment, d'acord amb la subsecció anterior). </para></li>
</orderedlist></para>

<p>El codi font per a una obra vol dir la forma preferida de l'obra per a fer-hi modificacions. Per una obra executable, el codi font complet vol dir tot el codi font per a tots els modules que conté, ms tots els fitxers de definició d'interfície associats si s'escena, ms els scripts que es facin servir per a controlar la compilació i la instal·lació de l'executable si s'escena. Tanmateix, com a excepció especial, el codi font que es distribueixi no cal que inclogui res del que normalment es distribueixi (sia en forma binària o de codi font) amb els components principals (compilador, nucli o similars) del sistema operatiu en què s'executa el programa, tret que el component en qüestió acompanyi l'executable.</para>

<p>Si la distribució de l'executable consisteix a donar accés per a copiar-lo d'un lloc determinat, aleshores serveix com a distribució del codi font el fet de donar un accés equivalent per a copiar el codi font, encara que les terceres parts no estiguin obligades a copiar el codi font en copiar el codi objecte.</p></sect2>

<sect2 id="sect4" label="4">
<title>Secci 4</title>

<p>No podeu copiar, modificar, reemetre llicències, o distribuir el programa si no s de la forma expressa que atorga aquesta Llicència. Qualsevol altre intent de copiar, modificar, reemetre llicències, o distribuir el programa s'il·licit i finalitza automáticamente els drets que hagueu obtingut d'aquesta llicència. Tanmateix, les parts que hagin rebut de vs cpies o drets d'acord amb aquesta llicència no veuran les seves llicències finalitzades mentre segueixin observant-les estrictament. </p></sect2>
No esteu obligat a acceptar aquesta llicència, ja que no l'heu signada. Tanmateix, no hi ha cap altra opció que us doni perms per modificar o distribuir el programa o les seves obres derivades. Aquestes accions queden prohibides per la llei si no accepteu aquesta llicència. Així doncs, en modificar o distribuir el programa o les seves obres derivades, indiqueu que accepteu aquesta llicència per a fer-ho, i tots els seus termes i condicions per copiar, distribuir o modificar el programa o obres que hi estiguin basades.

Cada cop que distribueu el programa (o qualsevol obra basada en el programa), el destinatari rep automàticament, de qui va emetre la llicència originàriament, una llicència per copiar, distribuir o modificar el programa sotmesa a aquests termes i condicions. No podeu imposar cap mes restricció a l'exercici dels drets que aquí es confereixen. No sou responsable de fer complir aquesta llicència a terceres parts.

Si, a conseqüència d'una decisió judicial, una demanda per infracció d'una patent o per qualsevol altra raó (no exclusivament relacionada amb patents), se us imposen condicions (tant si s'hi ordena judicial, acord, o el que sigui) que contraïden les condicions d'aquesta llicència, no quedeu excusat de les condicions d'aquesta llicència. Si no us s'ha de distribuir de manera que satisfueu alhora les obligacions que us imposa aquesta llicència i qualsevol altra obligació pertinents, aleshores no podeu distribuir el programa en absolut. Per exemple, si una llicència de patent no permet la redistribució gratuïtament el programa a aquells que hagin rebut còpies de vs directament o indirectament, aleshores la nica manera en què podreu satisfacer així com aquesta llicència seria abstenir-vos completament de distribuir el programa.

Si qualsevol fragment d'aquesta secció queds invalidat o no es pogués fer complir en qualsevol circumstància particular, la intenció que s'apliqui el balan de la secció, i que s'apliqui la secció en la seva totalitat en altres circumstàncies.

El propòsit d'aquesta secció no s'induir-vos a infringir cap patent ni cap altre requeriment del dret a la propietat, o a discutir-ne la validesa; l'unic propòsit d'aquesta secció s'protégeix la integritat del sistema de distribució de programari lliure, que s'implimenta amb pràctiques de llicència pública. Molta gent ha fet generoses contribucions a l'ampli ventall de programari distribuït per aquest sistema refiant-se de l'aplicació consistènt del sistema; li pertoca a l'autor, autora o donant decidir si vol distribuir programari per algun altre sistema, i un beneficiari de la llicència no pot imposar aquesta elecció.

Aquesta secció pretén deixar del tot clar el que es considera una conseqüència de la resta de la llicència.
Si hi ha pasos que restringeixen la distribució o l’s del programari, ja sigui per patents o per interfeïces sota copyright, el possessor del copyright original que posi el programa sota aquesta llicència pot afegir limitacions geogràfiques explícites que exclogui aquests pasos, de manera que la distribució només quedi permesa dins dels pasos no exclosos, o entre ells. En tal cas, aquesta llicència incorpora la limitació com si estigués escrita en el text de la llicència.

La Free Software Foundation pot publicar versions revisades o noves de la llicència pública general de tant en tant. Aquestes versions noves seran semblants en esperit a la versió present, per poden diferir en detalls per tractar noves preocupacions o problemes.

Cada versió rep un número de versió distintiu. Si el programa especifica un número de versió d’aquesta llicència que li s’aplica i que també s’aplica a <quote>qualsvol versi posterior</quote>, teniu l’opció de seguir els termes i condicions de la versió especificada o bé els de qualsevol versió publicada posteriorment per la Free Software Foundation. Si el programa no especifica un número de versió d’aquesta llicència, podeu triar qualsevol versió que hagi publicat la Free Software Foundation en qualsevol data.

Si voleu incorporar parts del programa en altres programes lliures les condicions de distribució dels quals sn diferents, escriviu a l’autor per demanar-li perms. Per al programari que est sota copyright de la Free Software Foundation, escriviu a la Free Software Foundation; de vegades fem excepcions per a permetre-ho. Prendrem la nostra decisió guiats pels dos objectius de mantenir la condició de lliure de tots els derivats del nostre programari lliure i de promoure la compartició i la reutilització del programari en general.

ATS QUE EL PROGRAMARI T’UNA LLICÈNCIA GRATUÍTA, NO SE N’OFEREBEIX CAP TIPUS DE GARANTIA, EN LA MESURA PERMESA PER LES LLEIS APLICABLES. LLEVAT DELS CASOS EN QUè S’AFIRMI EL CONTRARI PER ESCRIT, ELS LLICENCIADORS I/O LES ALTRES PARTS OFEREIXEN EL PROGRAMA <quote>TAL COM S’</quote>, SENSE CAP TIPUS DE GARANTIA, NI EXPLÍCITA NI IMPLÍCITA; AIXÍ INCLÒU, SENSE LIMITAR-S’HI, LES GARANTIES IMPLÍCITES DE COMERCIALITZACIÓ I ADEQUACIÓ A UN S’CONCRET. TOT EL RISC PER A LA QUALITAT I RENDIMENT DEL PROGRAMA S’VOSTRE. EN CAS QUE EL PROGRAMA RESULTA DEFECTU, VE ASSUMIU TOT EL COST D’ASSISTÈNCIA, REPARACIÓ O CORRECCIÓ.

SENSE GARANTIA

POT PUBLICAR VERSIONS REVISADES O NOVES DE LA LLICÈNCIA PÚBLICA GENERAL DE TANT EN TANT. AQUESTES VERSIONS NOVES SERAN SEMBLANTS EN ESPERIT A LA versió PRESENT, PER PODEN DIFERIR EN DETALLS PER TRACTAR NOVES PREocupacions O problemes.

Si voleu incorporar parts del programa en altres programes lliures les condicions de distribució dels quals són diferents, escriviu a l’autor per demanar-li perms. Per al programari que est sota copyright de la Free Software Foundation, escriviu a la Free Software Foundation; de vegades fem excepcions per a permetre-ho. Prendrem la nostra decisió guiats pels dos objectius de mantenir la condició de lliure de tots els derivats del nostre programari lliure i de promoure la compartició i la reutilització del programari en general.
EL POSSEDER DEL COPYRIGHT, O QUALSEVOL ALTRA PART QUE PUGUI MODIFICAR O REDISTRIBUIR EL PROGRAMA TAL I COM ES PERMET MS AMUNT NO US HAUR DE RESPONDRE EN CAP CAS, TRET DEL QUE REQUEREIXI LA LLEI APLICABLE O ELS ACORDS PER ESCRIT, PER PERJUDICIS, INCLUSOS ELS INCIDENTALS, DERIVATS, ESPECIALS O GENERALS QUE ES DERIVIN DE L’S O DE LA IMPOSSIBILITAT D’S DEL PROGRAMA (INCLOSES, ENTRE D’ALTRES, LES PRDUES DE DADES, LES DADES QUE EL PROGRAMA HAGI MALMS, LES PRDUES QUE US HAGI PROVOCAT A VS O A TERCERS O LA IMPOSSIBILITAT QUE EL PROGRAMA FUNCIONI AMB QUALSEVOL ALTRE PROGRAMA), FINS I TOT SI AQUEST POSSEDOMO ALTRA PART HA ESTAT ADVERTIDA DE LA POSSIBILITAT D’AQUESTS PERJUDICIS.
Dovoljenja veine programske opreme so zasnovane tako, da prepreujejo njegovo svobodno razirjanje in spreminjanje. Za razliko od teh pa Splono Javno Dovoljenje GNU (angl. GNU General Public License, GPL) jami svobodo pri razirjanju in spreminjanju proste programske opreme ter s tem zagotovilo, da ostane ta prosta za vse njene uporabnike. Dovoljenje GPL se nanaa na veino programske opreme ustanove Free Software Foundation in na vse druge programe, katerih avtorji so se zavezali k njeni uporabi. (Nekatera druga programska oprema ustanove Free Software Foundation je namesto tega pokrita s Splonim dovoljenjem GNU za knjinice, angl. GNU Library General Public License.) Uporabite jo lahko tudi za vae programe.

Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona Javna dovoljenja GNU zagotavlja pravico razirjanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanje njenih delov v novi prosti programski opremi; in seznanjanje z vsemi temi pravicami.

Zaradi zavarovanja vaih pravic je uvedena omejitev, ki prepoveduje vsakomur, da bi vam te pravice kratil ali od vas zahteval predajo teh pravic. Te omejitve se prevedejo v vao odgovornost, e razirjate kopije programske opreme ali jo spreminjate.

Na primer, e razirjate kopije takega programa, bodisi zastonj ali za plailo, morate dati prejemnikom vse pravice, ki jih imate vi. Preprati se morate, da bodo tudi oni prejeli ali imeli dostop do izvorne kode. In morate jim pokazati te pogoje (opp. izvirnik), da bodo poznali svoje pravice.

Pravice uporabnika so varovane dveh korakov: <orderedlist numeration="arabic">
  <li><para>s pravno zaito programske opreme in</para></li>
  <li><para>ponujenim dovoljenjem, ki vam daje pravno dovoljenje za razmnoevanje, razirjanje in/ali spreminjanje programske opreme.</para></li>
</orderedlist>
odraali na ugled izvornega avtorja.</para>

<para>Konno, vsaki prosti programski opremi nenehno grozijo programski patenti. elimo se izogniti nevarnosti, da bi razrirjevalci proste programske opreme posamino dobivali patentna dovoljenja in s tem naredili program lastniki (angl. proprietary). Za preprieteve tega jasno zahtevamo, da mora biti dovoljenje vsakega patenta tako, da ga lahko vsakdo prosto uporablja, ali pa sploh ne sme biti omejen s kakrnimkoli dovoljenjem.</para>

<para>Sledijo natanne doloitve in pogoji za razmnoeovanje, razrirjanje in spreminjanje.</para>

</sect1>

<title>Doloila in pogoji za razmnoeovanje, razrirjanje in spreminjanje</title>

<sect2 id="sect0" label="0">
<title>Razdelek 0</title>

<para>Dovoljenje se nanaa na vsak program ali drugo delo, ki vsebuje obvestilo lastnika avtorskih pravic (angl. copyright holder) z izjavo, da se program ali drugo delo lahko razirja pod pogoji Splonega Javnega Dovoljenja GNU (angl. General Public License). <quote>Program</quote> se v nadaljevanju nanana na vsak tak program ali delo, in <quote>delo, ki temelji na tem programu</quote> pomeni bodisi program ali pa katerokoli izvedeno delo po zakonu o avtorskih pravicah (angl. copyright law): se pravi delo, ki vsebuje program ali njegov del, bodisi dobesedno ali s spremembami in/ali prevedeno v drug jezik. (Tukaj in povsod v nadaljevanju je prevod vkljuen brez omejitev v pojem <quote>spremembe</quote>.) Vsak zavezanec k dovoljenju je opredeljen kot <quote>vi</quote>.</para>

<para>Dovoljenje ne pokriva nobenih drugih dejavnosti razen razmnoeovanje, razrirjanja in sprememb; ostale so izven njenega dosegna. Dejanje zagona programa ni omejeno in odvodni zapis programa je zajet le, e njegova vsebina sestavlja delo, iz katerega je izpeljan program (ne glede na to, da je bil narejen z zagnanim programom). Ali je to res ali ne, je odvisno od tega, kaj program dela.</para>

</sect2>

<title>Razdelek 1</title>

<para>Dovoljeno je razmnoevari in razrirjati dobesedne izvode izvorne kode programa v enaki obliki, kot jo dobite, preko kateregakoli nosilca, e je le na vsakem izvodu razlono in primerno objavljeno obvestilo o pravicah razrirjanja in zanikanje jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa poleg programa e izvod tega dovoljenja.</para>

<title>Razdelek 2</title>

<para>Dovoljeno je spreminjati va izvod ali izvode programa ali katerikoli njegov del, in tako narediti delo, ki temelji na programu, ter razmnoevari in razrirjati takne spremembe ali dela pod pogoji zgornjega <link linkend="sect1">Razdelka 1</link>, e je zadoeno tudi vsem naslednjim pogojem: <orderedlist numeration="loweralpha">
</orderedlist>
</sect2>
Zagotoviti je treba, da spremenjene datoteke nosijo vidna obvestila o tem, da so spremenjena in datum vsake spremembe.

Zagotoviti je treba, da je vsako delo, ki ga razirjate ali izdajate in ki v celoti ali deloma vsebuje program ali katerikoli njegov del ali pa je iz njega izpeljano, objavljeno pod pogoji tega dovoljenja kot celota brez plaila katerikoli tretji osebi.

e spremenjeni program ob zagonu navadno bere ukaze interaktivno, je treba zagotoviti, da se ob najbolj obajnem zagonu za takno interaktivno uporabo izpie ali pokae najava, ki vkljuje ustreznsp spoisto o pravicah razirjanja in spoisto, da jamstvo ni zagotovljeno (ali pa spoisto, da ponujate jamstvo) in da lahko uporabniki razirjajo program pod temi pogoji, in pove uporabniku, kako pogledati izvod tega dovoljenja.

Te zahteve se nanaajo na spremenjeno delo kot celoto. e razdelki tega dela, ki jih je lahko prepoznati, niso izpeljani iz programa in se jih lahko ima za neodvisna in loena dela sama po sebi, potem to dovoljenje in njeni pogoji zanje ne veljajo, kadar jih razirjate loeno. Vendar, kadar te iste razdelke razirjate kot del celote, ki je delo, ki temelji na programu, mora biti raziranje celote izvedeno pod pogoji tega dovoljenja, katerega dovoljenja za druga dovoljenja se razirjajo na vso celoto in torej na vsak njen del, ne glede na to, kdo ga je napisal.

Torej, namen tega razdelka ni, da bi zanikal ali spodbijal vae pravice do dela, ki ste ga v celoti napisali sami; namesto tega je namen raziriti pravico do nadzora razirjanja na izpeljana ali zbrana dela, ki temeljijo na programu.

Poleg tega, e gre za zgolj kopienje drugega dela, ki ne temelji na programu, s programom (ali z delom, ki temelji na programu) na mediju za shranjevanje ali distribucijskem mediju, se dovoljenje na to drugo delo ne nanaa.

Program (ali delo, ki temelji na njem, pod doloil razdelka 2) je dovoljeno razmnoevati in razirjati v objektini kod ali izvedljivi obliki pod pogoji zgornjih razdelkov 1 in <sect id="sect3" label="3">Razdelek 3</sect>

Program (ali delo, ki temelji na njem, pod doloil razdelka 2) je dovoljeno razmnoevati in razirjati v objektini kod ali izvedljivi obliki pod pogoji zgornjih razdelkov 1 in 2, e izpolnite tudi kaj od tega: <orderedlist numeration="loweralpha">

opremite ga s popolno in ustreznsp izvorno kodo v strojno berljivi obliki, ki mora biti razirjana pod pogoji zgornjih razdelkov 1 in 2 na nosilcu, ki se navadno uporablja za izmenjavo programske opreme; ali,

opremite ga z napisano ponudbo, veljavno vsaj tri leta, da boste katerikoli tretji osebi, za plailo, ki ne bo presegalo vah strokov fizinega izvajanja izvorne distribucije, dali popoln izvod ustreznsp izvorne kode v strojno
berljivi obliki, ki bo razirjana pod pogoji zgornjih razdelkov 1 in 2 na nosilcu, ki se obiajno uporablja za izmenjavo programske opreme; ali.</para>
</listitem>
</listitem>
</orderedlist></para>

<para>*opremite ga s podatki, ki ste jih dobili vi, kot ponudbo distribucije ustrezné izvorne kode. (Ta alternativa je
dovoljena le za nekomercialne distribucije in le, e ste dobili program v obliki izvorne kode ali izvedljivi obliki s
naklo ponudbo, glede na podrazdelek b, zgoraj.)</para>
</listitem>
</orderedlist></para>

<para>Izvorna koda pri delih pomeni obliko dela, najprimernejo za izdelavo sprememb. Pri izvedljivem delu
pomeni izvorna koda vso izvorno kodo za vse module, ki jih vsebuje, poleg tega pa e morebitne datoteke z
definicijami vmesnika, povezane s tem delom in skripte, uporabljane za nadzor prevajanja in namestitev izvedljive
datoteke. Vendar - kot posebna izjema - ni nujno, da razirjana izvorna koda vkljuje vse, kar se navadno razirja (v
izvorni ali strojni obliki) z vejimi komponentami (prevajalnik, jedro, in tako naprej) operacijskega sistema, na
katerem te izvedljiva datoteka, razen e ta komponenta spremlja izvedljivo datoteko.</para>

<para>e se razirjanje izvedljive datoteke ali objektne kode izvede s ponujenim dostopom za prepisovanje z za to
namenjenega mesta, potem ponušanje ekvivalentnega dostopa za razmnoevanje izvorne kode z istega mesta teje kot
razirjanje izvorne kode, eprav tretje osebe niso priljene razmnoevati izvorne kode poleg objektne kode.</para>
</sect2>

<sect2 id="sect4" label="4">
<title>Razdelek 4</title>

<para>Ni dovoljeno razmnoevati, spreminjati, podrejati dovoljenja ali razirjati programa drugae, kot to izrecno
doloa priuoe dovoljenje. Vsak drugi poskus razmnoevanja, spreminjanja, podrejanja dovoljenja ali razirjanja
Dokumenta je nien, in samodejno prekine vae pravice, izhajajoe iz tega dovoljenja. Vendar pa se osebam, ki so svoj
izvod ali pravice dobile od vas pod tem dovoljenjem, dovoljenje ne prekine, dokler se ji popolnoma
podrejajo.</para>
</sect2>

<sect2 id="sect5" label="5">
<title>Razdelek 5</title>

<para>Ni vam treba sprejeti pogojev dovoljenja, saj ga niste podpisali. Vendar vam razen nje ni ne dovoljuje
spreminjanja ali razirjanja programa ali iz njega izpeljanih del. e ne sprejmete tega dovoljenja, ta dejanja
prepoveduje zakon. Torej, s spremembo ali razirjanjem programa (ali kateregakoli dela, ki temelji na programu),
pokaete svoje strinjanje s tem dovoljenjem in z vsemi njegovimi doloili in pogoji za razmnoevanje, razirjanje ali
spreminjanje programa ali del, ki temeljijo na njem.</para>
</sect2>

<sect2 id="sect6" label="6">
<title>Razdelek 6</title>

<para>Vsaki, ko razirjate program (ali katerokoli delo, ki temelji na programu), prejemnik samodejno prejme
dovoljenje izvornega izdajatelja dovoljenja (angl. original licensor) za razmnoevanje, razirjanje ali spreminjanje
programa glede na ta doloila in pogoje. Ni dovoljeno vsiljevati nobenih nadaljnjih omejitvev izvajanja prejemnikovih
pravic, podeljenih tukaj. Niste odgovorni za všiljevanje strinjanja tretjih oseb s tem dovoljenjem.</para>
</sect2>

<sect2 id="sect7" label="7">
<title>Razdelek 7</title>

<p>e so vam, kot posledica presoje sodia ali suma kritve patentja ali zaradi kateregakoli drugega razloga (ne omejenega zgolj na patentna vpraanja), všiljeni pogoji (bodisi z odlokom sodia, sporazumom ali drugači), ki nasprotujejo pogojem tega dovoljenja, vas ne odvezujejo pogojev tega dovoljenja. e programa ne morete razirjati tako, da hkrati zadostite svojim obvezam pod dovoljenjem in katerimkoli drugim pristojnim obvezam, potem posledino sploh ne smete razirjati programa. Na primer, patentno dovoljenje ne dovoli razirjanja programa brez plačevanja avtorskega honorarja vseh, ki prejmejo kopije neposredno ali posredno od vas, potem je edina mona pot, da zadostite temu pogoju in temu dovoljenju ta, da se v celoti vzdržite razirjanja programa.</p>

<p>e se za katerikoli del tega razdelka ugotoviti, da je neveljaven ali da se ga ne da izvajati pod katerimkoli določenim pogojem, je miljeno, da velja usmeritev tega razdelka (angl. balance of the section) in razdelek kot celota velja v drugih primerih.</p>

<p>Namen tega razdelka ni, da bi vas napeljeval h kritvi patentov ali drugih trditev lastnjica pravic ali izpodbijal veljavnost katerehkoliko takšnih trditev; edini namen tega razdelka je itenje integritete sistema distribucije proste programske opreme, ki je izveden s prakso javnih dovoljenj. Mnogi ljudje so radodarno prispevali k izročeno naboru programske opreme, razirjane preko tega sistema, v upanju na njegovo dosledno izvajanje; od avtorja/dajalca je odvisno, e je pripravljen razirjati programje skozi katerikoli drug sistem, in izdajatelj dovoljenja ne more vsiljevati te izbire.</p>

<p>Ta razdelek namerava temeljito pojasniti, kaj so predvidene posledice nadaljevanja dovoljenja.</p>
</sect2>

<sect2 id="sect8" label="8">
<title>Razdelek 8</title>

<p>e sta razirjanje in/ali uporaba programa omejena v določenih dravah, bodisi zaradi patentov ali vmesnikov s posebno pravico razirjanja (angl. copyrighted interfaces), lahko izvorni lastnik ali lastnica pravic razirjanja, ki postavljajo pod to dovoljenje, doda izrecno zemljepisno omejitev razirjanja, ki izključuje te drave, tako da je razirjanje dovoljeno le v in med dravami, ki niso na tak nain izključene. V takem primeru to dovoljenje vključuje omejitve, kot da so napisane v telesu tega dovoljenja.</p>
</sect2>

<sect2 id="sect9" label="9">
<title>Razdelek 9</title>

<p>Ustanova Free Software Foundation lahko od asa do asa izdaja preurejene in/ali nove različice Splonega Javnega dovoljenja (angl. General Public License). Nove različice bodo pisane v duhoh trenutne različice, vendar se lahko razlikujejo v podrobnostih, ki bodo obravnavale nove teave ali poglede.</p>

<p>Vsaki razlici je prirejena razloevalna tevilka različice. e program doloa tevilko različice tega dovoljenja, ki se nanaa nanj in <q>na katerekoli poznej različice</q>, imate izbiro upotevanja pogojjev in doloi bodisi te različice ali katerekoli poznej različice, ki jo je izdala ustanova Free Software Foundation. e program ne doloa tevilke
razliice tega dovoljenja, lahko izberete katerokoli razliico, ki jo je kdajkoli izdala ustanova Free Software Foundation.</para>

</sect2>

<sect2 id="sect10" label="10">
<title>Razdelek 10</title>
<para>e elite vkljuiti dele programa v druge proste programe, katerih pogoji razirjanja so drugani, piite avtorju in ga prosite za dovoljenje. Za programje, katerega pravice razirjanja ima Free Software Foundation, piite na Free Software Foundation; vasih naredimo izjemo pri tem. Nao odloitev bosta vodila dva cilja: ohranitev proste statusa vseh izvedenih del iz nae proste programske opreme in spodbujanje razdeljevanja in ponovne uporabe programja na splono.</para>

</sect2>

<sect2 id="sect11" label="11">
<title>BREZ JAMSTVA</title>
<subtitle>Razdelek 11</subtitle>
<para>KER JE PROGRAM Z DOVOLJENJEM OPREDELJEN KOT BREZPLAEN, NI NOBENEGA JAMSTVA ZA PROGRAM DO MEJE, KI JO DOLOA PRISTOJNI ZAKON. RAZEN, E NI DRUGAE NAPISANO, IMETNIKI PRAVIC RAZIRJANJA IN/ALI DRUGE OSEBE PONUJAJO PROGRAM.</para>

</sect2>

<sect2 id="sect12" label="12">
<title>Razdelek 12</title>
<para>V NOBENEM PRIMERU, RAZEN E TAKO PRAVI VELJAVNI ZAKON ALI JE PISNO DOGOVORJENO, NE BO LASTNIK PRAVIC RAZIRJANJA ALI KATERAKOLI DRUGA OSEBA, KI LAHKO SPREMENI IN/ALI PONOVNO RAZIRJA PROGRAM, KOT JE DOVOLJENO ZGORAJ, PREVZEL ODGOVORNOSTI ZARADI KODE, NAJSI GRE ZA SPLONO, POSEBNO, NENAMERNO KODO ALI KODO, IZHAJAJOO IZ UPORABE ALI NEZMONOSTI UPORABE PROGRAMA (VKLJUNO Z, A NE OMEJENO NA, IZGUBO PODATKOV ALI NENATANNO OBDELAVO PODATKOV ALI IZGUBO, POVZROENO VAM ALI TRETJIM OSEBAM ALI NEZMONOST PROGRAMA, DA BI DELOVAL S KAKIM DRUGIM PROGRAMOM), ETUDI JE BIL TAK LASTNIK ALI DRUGA OSEBA OBVEEN O MONOSTI NASTANKA TAKNE KODE.</para>

</sect2>

</article>
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Seccin 0

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Seccin 1

Pode modificar a sa copia ou copias do Programa, ou calquera parte del, e obter as un produto baseado no Programa, as como copiar e distribuir as devanditas modificacions ou produto de acordo cos termos do apartado 1 anterior, sempre que cumpra tamn con todas as condicions seguintes:

Pode cobrar unha taxa polo acto fisico de transferir unha copia e, se vostede quixer, pode tamn ofrecer unha determinada garanta a cambio do pagamento dunha taxa.

Seccin 2

Pode modificar a sa copia ou copias do Programa, ou calquera parte del, e obter as un produto baseado no Programa, as como copiar e distribuir as devanditas modificacions ou produto de acordo cos termos do apartado 1 anterior, sempre que cumpra tamn con todas as condicions seguintes:
derive do Programa ou de calquera parte do Programa, obtea unha licenza no seu conxunto sen que isto repercuta en ningn gasto para calquera terceira parte de acordo cos termos desta licenza.&lt;/para&gt;

&lt;/listitem&gt;
&lt;/listitem&gt;
&lt;/orderedlist&gt;&lt;/para&gt;

&lt;para&gt;Se o programa modificado adoita ler comandos de forma interactiva ao executarlo, debe facer que, cando se execute para tal uso interactivo na forma mis habitual, mostre ou exhiba un aviso no que se inclan as oportunas informacins relativas propiedade intelectual do programa e ausencia de toda garantia (ou, se for o caso, ao feito de que vostede quen proporciona a garantia), a indicacin de que os usuarios poden redistribuir o programa consonte estas condicins e a informacin necesaria para que o usuario saiba como acceder a unha copia desta licenza. &lt;note&gt;
&lt;title&gt;Excepcin:&lt;/title&gt;
&lt;para&gt;Se o Programa en si mesmo interactivo pero non adoita mostrar avisos deste tipo, non necesario que o seu produto baseado no Programa exhiba ningn aviso.&lt;/para&gt;

&lt;/note&gt;&lt;/para&gt;
&lt;/listitem&gt;
&lt;/orderedlist&gt;&lt;/para&gt;

&lt;para&gt;Estes requisitos aplicanse ao produto modificado no seu conxunto. Se o produto contn seccins facilmente identificables non derivadas do Programa, que razonablemente se poidan considerar como produtos separados e independentes por si mesmos, esta licenza e mais os seus termos non seran aplicables a todos os demais titulares da licenza, abranguen o conxunto completo e, en consecuencia, todas e cada unha das partes do conxunto independentemente de quen as escribise.&lt;/para&gt;

&lt;para&gt;As, o obxectivo deste apartado non reclamar dereitos ou rebater os seus dereitos sobre calquera produto escrito por vostede na sa totalidade; mis ben ao contrario, o seu obxectivo exercer o dereito de controlar a distribucin de produtos derivados ou colectivos baseados no Programa.&lt;/para&gt;

&lt;para&gt;Ademais, a simple agregacin ao Programa (ou a un produto baseado no Programa) doutro produto non baseado no Programa nun volume dun medio de distribucin ou almacenamento non implica a inclusin do outro produto no mbito de aplicacin desta licenza.&lt;/para&gt;

&lt;/sect2&gt;

&lt;sect2 id="sect3" label="3"&gt;
&lt;title&gt;Seccin 3&lt;/title&gt;

&lt;para&gt;Pode copiar e distribuir o Programa (ou un producto baseado nel, segundo os termos do &lt;link linkend="sect2"&gt;apartado 2&lt;/link&gt;) en cdigo objecto ou forma executable de acordo co establecido nos &lt;link linkend="sect1"&gt;apartados 1&lt;/link&gt; e &lt;link linkend="sect2"&gt;2&lt;/link&gt; anteriores, sempre que cumpra tamm un dos seguintes requisitos: &lt;orderedlist numeration="loweralpha"&gt;
&lt;listitem&gt;
&lt;para&gt;Acompaalo do correspondente cdigo fonte completo nun formato lexible por mquina, que se ha de distribuir de acordo co estipulado nos apartados 1 e 2 anteriores nun soporte tipicamente utilizado para o intercambio de software.&lt;/para&gt;

&lt;/listitem&gt;
&lt;listitem&gt;
&lt;para&gt;Acompaalo dunha oferta por escrito, cunha validez mnima de tres anos, na que se entregue a calquera terceiro interesado, por un custo nunca superior aos gastos nos que vostede poida incorrer pola executin fsica da
distribución del código fuente, una copia completa en formato legible por máquina del código fuente correspondiente, que se ha de distribuir de acuerdo con lo estipulado en los apartados 1 y 2 anteriores, sin soporte típicamente utilizado para el intercambio de software.</para>
</listitem>
</listitem>
</orderedlist></para>

<para>Acompañe la información que recibió usted sobre la oferta de distribuir el código fuente correspondiente. (Esta opción sólo está permitida para la distribución no comercial, y únicamente en el caso de que usted recibió el programa en código objeto o forma ejecutable de una oferta como la que se acaba de explicar, de acuerdo con el subapartado b anterior.)</para>
</listitem>
</orderedlist></para>

<para>Entiende por código fuente el formato más idóneo para hacer modificaciones en él. En el caso de un programa ejecutable, entiende por código fuente completo el código fuente para todos los módulos incluidos, además de todos los archivos de definición de interfaces asociados y los scripts utilizados para controlar la compilación e instalación del ejecutable. Por tanto, como caso excepcional, el código fuente distribuido no precisa incluir nada que se distribuya normalmente (ya sea en forma binaria o fuente) como componentes principales (compilador, núcleo, etc.) del sistema operativo en que se ejecuta el ejecutable, a menos que ese propio componente acompañe el ejecutable.</para>

<para>Si la distribución del código objeto o ejecutable se realiza concediendo acceso de copia desde un lugar determinado, entiende por la concesión de acceso equivalente para copiar el código fuente del mismo lugar considerado como distribución del código fuente, a menos que ningún tercero esté obligado a copiar el código fuente junto con el objeto.</para>
</sect2>

<sect2 id="sect4" label="4">
<title>Sección 4</title>

<para>No le está permitido copiar, modificar, emitir una sublicencia ni distribuir el Programa según los términos especificamente estipulados en esta licencia. Calquiera otro intento de copiar, modificar, emitir una sublicencia o distribuir el Programa será considerado nulo, e implicará la cancelación automática de los derechos que le concede esta licencia. No obstante, las partes que usted concederá copias o derechos consonte en los términos de esta licencia no verán resoltas sus respectivas licencias, siempre que cumplan plenamente con todo lo que en ellas se estipula.</para>
</sect2>

<sect2 id="sect5" label="5">
<title>Sección 5</title>

<para>Dado que anda no a asinou, non est obrigado a aceptar os termos desta licenza. Porn, ela o nico que o autoriza a modificar ou distribuir o Programa ou calquera outro producto derivado del. Estas accins estn prohibidas por lei mentres non acepte esta licenza. Xa que logo, mediante a modificacin ou distribucin do Programa (ou de calquera produto baseado no Programa) vostede expres a sa aceptacin desta licenza para a realizacin das devanditas accins, as como de todos os termos e condicins estipulados nela para a copia, distribucin ou modificacin do Programa ou de calquera produto baseado nel.</para>
</sect2>

<sect2 id="sect6" label="6">
<title>Sección 6</title>

<para>Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 48717</para>
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MESMO SE O DEVANDITO TITULAR OU A OUTRA PARTE FOSEN ADVERTIDOS DA POSIBILIDADE
DE QUE SE PRODUCISEN OS DANOS DESCRITOS ANTERIORMENTE.</para>
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these things.
</para>

<para>
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</para>

<para>
For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.
</para>

<para>
We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.
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<para>
To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
</para>

<para>
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.
</para>

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

<para>
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a <quote>work based on the library</quote> and a <quote>work that uses the library</quote>. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
</para>

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<sect1 id="terms" label="none">
<title>TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION</title>

<sect2 id="sect0" label="0">
<title>Section 0</title>
<para>
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<para>
A <quote>library</quote> means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
</para>

<para>
The <quote>Library</quote>, below, refers to any such software library or work which has been distributed under these terms. A <quote>work based on the Library</quote> means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term <quote>modification</quote>.)
</para>

<para>
<quote>Source code</quote> for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

The modified work must itself be a software library.
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or collective works based on the Library.
</para>

<para>
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
</para>
</listitem>
</orderedlist>
</sect2>

<sect2 id="sect3" label="3">
<title>Section 3</title>

<para>You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
</para>

<para>Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
</para>

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.
</para>
</sect2>

<sect2 id="sect4" label="4">
<title>Section 4</title>

<para>You may copy and distribute the Library (or a portion or derivative of it, under <link linkend="sect2">Section 2</link>
in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2) above; and, if the work is an
executable linked with the Library, with the complete machine-readable
<quote>work that uses the Library</quote>, as object code and/or source
code, so that the user can modify the Library and then relink to
produce a modified executable containing the modified Library. (It is
understood that the user who changes the contents of definitions files
in the Library will not necessarily be able to recompile the application
to use the modified definitions.)
</para>
</listitem>
</listitem>
<para>
Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.
</para>
</listitem>
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<para>
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in <link linkend="sect6a">Subsection 6a</link>
, above, for a charge no more than the cost of performing
this distribution.
</para>
</listitem>
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<para>
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.
</para>
</listitem>
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<para>
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
</para>
</listitem>
</listitem>
</orderedlist>

For an executable, the required form of the <quote>work that uses the
Library</quote> must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

</para>

<para>
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
</para>

</sect2>

<sect2 id="sect7" label="7">
<title>Section 7</title>

<para>
You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
</para>

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<para>
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
</para>
</li>
<li>
<para>
Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
</para>
</li>
</orderedlist>
</sect2>
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</para>
</sect2>

<sect2 id="sect13" label="13">
<title>Section 13</title>

<para>
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<sect2 id="sect14" label="14">
<title>Section 14</title>

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<sect2 id="sect15" label="15">
<title>NO WARRANTY</title>

<subtitle>Section 15</subtitle>

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<sect2 id="sect16" label="16">
<title>Section 16</title>

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<releaseinfo>Version 2.1, février 1999.</releaseinfo>

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<title>Première</title>

...
Les licences de la plupart des logiciels sont conçues pour vous ter toute liberté de les partager et de les modifier. l'oppos, les Licences Gnrales Publiques GNU ont pour but de vous garantir votre liberté de partager et modifier un logiciel libre pour que le logiciel est bien libre pour tous les utilisateurs.</para>

Quand nous parlons de logiciel libre, nous parlons de liberté, pas de prix. Nos Licences Gnrales Publiques sont conçues pour s'assurer que vous disposerez de la liberté de distribuer des copies du logiciel libre (et de facturer ce service si vous le désirez), que vous recevrez le code source ou pouvez l'obtenir chaque fois que vous le souhaitez, que vous pouvez modifier le logiciel et en utiliser tout ou partie dans de nouveaux programmes libres, et que vous tes informes que vous pouvez faire tout ceci.</para>

Cette licence, la Licence Gnrale Publique Limite (Lesser General Public License), s'applique certains paquets logiciels designs spcifiquement typiquement des bibliothques de la Free Software Foundation et d'autres auteurs qui decident de l'utiliser. Vous pouvez l'utiliser aussi, mais nous vous suggrez de considrer d'abord si la presente licence ou la Licence Gnrale Publique GNU (GNU General Public License) ordinaire est la meilleure stratgie utiliser dans chaque cas particulier, suivant les explications donnes ci-dessous.</para>

Quand nous parlons de logiciel libre, nous parlons de la liberté de l'utiliser, pas de son prix. Nos Licences Gnrales Publiques sont conçues pour s'assurer que vous disposerez de la liberté de distribuer des copies du logiciel libre (et de facturer ce service si vous le désirez); que vous recevrez le code source ou pouvez l'obtenir chaque fois que vous le souhaitez; que vous pouvez modifier le logiciel et en utiliser tout ou partie dans de nouveaux programmes libres; et que vous tes informes que vous pouvez faire tout ceci.</para>

Pour protger vos droits, nous devons mettre des restrictions qui interdissent aux distributeurs de vous refuser ces droits ou de vous demander d'abandonner ces droits. Ces restrictions se traduisent par certaines responsabilits pour vous si vous distribuez des copies de la bibliothque ou si vous la modifiez.</para>

Par exemple, si vous distribuez des copies de la bibliothque, que ce soit titre gratuit ou contre un paiement, vous devez donner aux concessionnaires tous les droits que nous vous avons concds. Si vous liez d'autres codes avec la bibliothque, vous devez fournir des fichiers objets complets aux concessionnaires, de sorte qu'ils peuvent les lier nouveau avec la bibliothque aprs l'avoir modifie et recompile. Et vous devez leur montrer ces termes de sorte qu'ils puissent conna tre leurs droits.</para>

Nous protegeons vos droits par une thode en deux tapes: (1) nous libellons la Bibliothque avec une notice de proprit intellectuelle (copyright) et (2) nous vous offrons cette Licence, qui vous donne le droit de copier, distribuer ou modifier la bibliothque</para>

Pour protger chaque distributeur, nous voulons tablir de faon trs claire qu'il n'y a aucune garantie pour la Bibliothque libre. Aussi, si la Bibliothque est modifie par quelqu'un d'autre qui la redistribue ensuite, ses concessionnaires devraient savoir que ce qu'ils ont n'est pas la version originale, de sorte que la rputation de l'auteur original ne sera pas affecte cause de problmes introduits par d'autres.</para>

Enfin, les brevets logiciels constituent une menace constante contre l'existence mme de tout logiciel libre. Nous voulons tre sr qu'une socit ne peut pas effectivement restreindre les utilisateurs d'un programme libre enobtenant une licence restrictive d'un titulaire de brevet. Par consquent, nous insistons pour que toute licence de brevet obtenue pour une version de la Bibliothque doit tre cohrente avec sa pleine liberté d'utilisation spcifie dans la presente Licence.
La plupart des logiciels GNU, y compris certaines bibliothèques, sont couverts par la Licence Générale Publique GNU (GNU General Public License). La présente licence s'applique certaines bibliothèques désignées et est assez différente de la Licence Générale Publique. Nous utilisons la présente licence pour certaines bibliothèques afin de permettre de lier ces bibliothèques, sous certaines conditions, des programmes non libres.

Quand un programme est lié avec une bibliothèque, que ce soit statiquement ou avec une bibliothèque partagée, la combinaison des deux constitue, en termes légaux, un travail combiné, un drif de la bibliothèque originale. Il s'ensuit que la Licence Générale Publique ordinaire ne permet une telle liaison que si l'entière combinaison remplit ses critères et conditions de liberté. La Licence Générale Publique Limite permet de desserrer les critères permettant de lier d'autres codes avec la bibliothèque.

Nous appelons cette licence la Licence Générale Publique <quote>Limite</quote> (Lesser General Public License) car elle offre en fait une protection plus limite de la liberté de l'utilisateur que celle offerte par la <quote>Licence Générale Publique</quote> ordinaire. Elle offre aux autres développeurs de logiciels libres un avantage plus limité face aux programmes concurrents non libres. Ces désavantages sont la raison pour laquelle nous utilisons la <quote>Licence Générale Publique</quote> ordinaire pour de nombreuses bibliothèques. Cependant la licence limite offre des avantages dans certaines circonstances spéciales.

Par exemple, en de rares occasions, il peut exister le besoin particulier d'encourager l'utilisation la plus large possible d'une certaine bibliothèque, afin qu'elle devienne un standard de facto. Pour arriver à cette fin, des programmes non libres doivent pouvoirs être autorisés à utiliser la bibliothèque. Un cas plus fréquent est qu'une bibliothèque libre effectue les mêmes tâches que des bibliothèques non libres largement utilisées. Dans ce cas, il n'y a pas grand chose à gagner à limiter la bibliothèque libre aux seuls logiciels libres, aussi nous utilisons la Licence Générale Publique Limite.

Dans d'autres cas, l'autorisation d'utiliser une bibliothèque particulière dans des programmes non libres permet un plus grand nombre de personnes d'utiliser un corpus très large de logiciels libres. Par exemple, l'autorisation d'utiliser la bibliothèque C GNU dans des programmes non libres permet plus de personnes d'utiliser le système d'exploitation GNU tout entier, de même que sa variante, le système d'exploitation GNU/Linux.

Bien que la Licence Générale Publique Limite semble limiter la protection de la liberté de l'utilisateur, elle assure que l'utilisateur d'un programme lié avec une bibliothèque dispose de la liberté et du choix d'exécuter ce programme en utilisant une version modifiée de la bibliothèque.

Les termes et conditions précis concernant la copie, la distribution et la modification suivent. Prenez une attention tout particulière aux différences entre un <quote>travail bas sur la Bibliothèque</quote> et un <quote>travail utilisant la Bibliothèque</quote>. Le premier contient du code drif de la bibliothèque, tandis que le second doit être combiné avec la bibliothèque afin de pouvoir être exécuté.

TERMES ET CONDITIONS CONCERNANT LA COPIE, LA DISTRIBUTION ET LA MODIFICATION

Section 0

Cet Accord de Licence s'applique toute bibliothèque logicielle ou tout programme contenant une notice
place par le titulaire de la réservation de droits (copyright) ou toute autre partie autorise indiquant que ce logiciel peut tre distribu suivant les termes de cette Licence Générale Publique Limite (appele ci-dessous <quote>cette Licence</quote>). Chacun des concessionnaires de cette Licence sera design en tant que <quote>Vous</quote>.</para>

Une <quote>bibliothèque</quote> signifie une collection de fonctions logicielles ou de données préparées de faon tre lié facilement des programmes applicatifs (utilisant tout ou partie de ces fonctions et données) afin de former des exécutables.</para>

La <quote>Bibliothèque</quote>, ci-dessous, se frefe toute telle bibliothèque logicielle ou travail qui a t distribu suivant ces termes. Un <quote>travail bas sur la Bibliothèque</quote> signifie soit la Bibliothèque ou tout travail driv pouvant tre soumis aux lois de proprit intellectuelle: c'est--dire un travail contenant la Bibliothèque ou une portion de celle-ci, soit en copie conforme, soit avec des modification ou traduit directement dans une autre langue. (Dans la suite ci-dessous, les traductions sont incluses sans limitation dans le terme modification.)</para>

Le <quote>code source</quote> d'un travail signifie la forme prfere du travail permettant d'y effectuer des modifications. Pour une bibliothèque, le code source complet signifie tout le code source de tous les modules qu'elle contient, plus tous les fichiers de définition d'interface associés, plus les scripts utilis pour contrler la compilation et l'installation de la bibliothèque.</para>

Les activités autres que la copie, la distribution et la modification ne sont pas couvertes par cette Licence; elles sont en dehors de son tendue. L'action d'exécuter un programme utilisant la Bibliothèque n'est pas restreinte et les résultats produits par un tel programme ne sont couverts que si leur contenu constitue un travail bas sur la Bibliothèque (indépendamment de l'utilisation de la Bibliothèque dans un outil utilis pour l'écrire). Que ce soit ou non le cas dépend de ce que réalise la Bibliothèque, et de ce que fait le programme utilisant la Bibliothèque.</para>

 Vous pouvez copier et distribuer des copies conformes du code source complet de la Bibliothèque que vous recevez, sur tout support, pourvu que vous publiez scrupuleusement et de faon approprue sur chaque copie la notice de réservation de droit (copyright) et un dni de garantie; gardez intactes toutes les notices qui se refrent cette Licence et l'absence de toute garantie; et distribuez une copie de cette Licence en mme temps que la Bibliothèque.</para>

Vous pouvez demander un paiement pour l'action physique de transfert d'une copie et vous pouvez volont offrir une protection de garantie en change d'un paiement.</para>

Vous pouvez modifier votre ou vos copie(s) de la Bibliothèque ou toute portion de celle-ci et ainsi crer un travail bas sur la Bibliothèque et copier ou distribuer de telles modifications suivant les termes de la <link linkend="sect1">Section 1</link> ci-dessus, pourvu que vous satisfassiez galement chacune de ces conditions:

Le travail modifi doit tre lui-mme une bibliothèque logicielle.
Vous devez assurer que les fichiers modifiés comportent des notices vides tablissant que vous avez changé les fichiers et la date de ces changements.

Vous devez assurer que l'ensemble du travail pourra être licencié sans frais toute tierce partie suivant les termes de cette Licence.

Si une facilité dans le bibliothèque modifie référence une fonction ou une table de données fournir par une application utilisant la facilit, autre qu'un argument pass quand la facilit est invoquée, alors vous devez faire un effort en toute bonne foi pour vous assurer que, dans l'éventualité où une application ne fournirait pas une telle fonction ou table, la facilité restera opérationnelle et effectuera une partie quelconque de sa finalité de façon sense.

(Par exemple, une fonction dans une bibliothèque pour calculer des racines carrées a une finalité qui est totalement bien définie indépendamment de l'application. Par conséquent, la Sous-section 2d requiert que toute fonction fournie par l'application ou table utilisée par cette fonction doit être optionnelle si l'application n'en fournit pas: la fonction racine carrée doit encore pouvoir calculer des racines carrées.)

Ces obligations s'appliquent au travail modifié dans son entier. Si des sections identifiables de ce travail ne sont pas drives dans la Bibliothèque, et peuvent être raisonnablement considérés comme des travaux indépendants et spars par eux-mêmes, alors cette Licence et ses termes, ne s'appliquent pas ces sections, ds lors que vous les distribuez en tant que travaux spars. Mais quand vous distribuez les mêmes sections en tant que composants d'un ensemble constituant un travail bas sur la Bibliothèque, la distribution de l'ensemble doit se faire suivant les termes de cette Licence, dont les autorisations accordées d'autres obtenteurs de licences s'endent la totalité de l'ensemble et donc pour chacun des composants indépendamment de qui les a écrit.

Aussi, ce n'est pas l'intention de cette section de clamer des droits ou de contester vos droits sur des travaux créés entièrement par vous; l'intention est plutôt d'exercer le droit de contrôler la distribution des travaux drivés ou collectifs bas sur la Bibliothèque.

De plus, la simple agglomération avec la Bibliothèque (ou avec un travail bas sur la Bibliothèque) d'un autre travail non bas sur la Bibliothèque sur un même volume de stockage ou un support de distribution n'amène pas cet autre travail dans le champ d'application de cette Licence.

Vous pouvez choisir d'appliquer les termes de la Licence Générale Publique GNU ordinaire au lieu de deux de cette Licence une copie donne de cette Bibliothèque. Pour le faire, vous devez modifier les notices qui se réfèrent cette Licence, de sorte qu'ils se réfèrent plutôt la Licence Générale Publique GNU version 2, au lieu de cette Licence. (Si une version officielle plus récente que la version 2 de la Licence Générale Publique GNU ordinaire a été publie, alors vous pouvez spécifier plutôt cette version si vous le souhaitez.) N'effectuez aucun autre changement ces notices.
Ds que ce changement a t fait dans une copie donne, il est irreversible pour cette copie et donc la Licence Gnrale Publique GNU ordinaire s'appliquera toutes les copies suivantes et tous travaux drivs effectus partir de cette copie.

Cette option est utile quand vous souhaitez copier une partie du code de la Bibliothque en un programme qui n'est pas une bibliothque.

Vous pouvez copier et distribuer la Bibliothque (ou une portion ou un driv de celle-ci, suivant les termes de la Section 2) sous forme de code objet ou exécutable suivant les termes des Sections 1 et 2 ci-dessus, pourvu que vous l'accompagniez avec le code source correspondant sous forme lisible par une machine, qui doit être distribué suivant les termes des Sections 1 et 2 ci-dessus sur un support utilis habituellement pour l'change de logiciels.

Si la distribution du code objet se fait en offrant l'accès la copie depuis un emplacement désigné, alors une offre d'accès équivalente pour copier le code source depuis le mme emplacement satisfait l'obligation de distribuer le code source, mme si des parties tierces ne sont pas obliges de copier simultanément le source en mme temps que le code objet.

Un programme qui ne contient aucun driv d'une quelconque portion de la Bibliothque, mais est conçu pour travailler avec la Bibliothque en tant que pil ou li avec cette Bibliothque, est appel un "travail utilisant la Bibliothque". Un tel travail, pris isolément, n'est pas un travail driv de la Bibliothque et tombe par conséquent hors du champ d'application de cette Licence.

Cependant, la liaison avec la Bibliothque d'un "travail utilisant la Bibliothque" crée un exécutable qui est un driv de la Bibliothque (car il contient des portions de la Bibliothque), plutôt qu'un "travail utilisant la Bibliothque". L'exécutable est par conséquent couvert par cette Licence. La Section 6 tablit les termes de distribution de tels exécutables.

Quand un "travail utilisant la Bibliothque" utilise des éléments d'un fichier d'entrée faisant partie de la Bibliothque, le code objet de ce travail peut être un travail driv de la Bibliothque même si son code source n'est pas. Cette définition prendra son sens tout particulièrement si le travail peut être lié sans la Bibliothque ou si le travail est lui-même une bibliothque. Les limitations de ce cas ne sont pas définies de façon précise par la loi.

Si un tel fichier objet utilise uniquement des paramètres numériques, des schémas et accesseurs de structures de données et de petites macros et petites fonctions en ligne (dix lignes de source ou moins en longueur), alors l'utilisation du fichier objet est non restreinte, indépendamment du fait que cela constitue également un travail driv. Les règles de la Section 6 s'appliqueront tout de même aux exécutables contenant ce
code objet plus des portions de la Bibliothèque.)</para>

<para>Autrement, si le travail est un driv de la Bibliothèque, vous pouvez distribuer le code objet pour le travail suivant les termes de la <link linkend="sect6">Section 6</link>. Les règles de la <link linkend="sect6">Section 6</link> s'appliquent alors tout executable contenant ce travail, que ce dernier soit ou ne soit pas lié directement avec la Bibliothèque elle-même.</para>

</sect2>

<sect2 id="sect6" label="6">
<title>Section 6</title>

<para>Par exception aux Sections ci-dessus, vous pouvez aussi combiner ou lier un <quote>travail utilisant la Bibliothèque</quote> avec la Bibliothèque pour produire un travail contenant des portions de la Bibliothèque et distribuer ce travail suivant les termes de votre choix, pourvu que ces termes permettent la modification du travail pour les besoins propres du client et l'ingénierie inverse permettant le débogage de telles modifications.</para>

<para>Vous devez donner une notice explicite et vidente avec chaque copie du travail montrant que la Bibliothèque est utilisée dans celui-ci et que la Bibliothèque est couverte par cette Licence. Vous devez fournir une copie de cette Licence. Si le travail lors de son exécution affiche des notices de droits et propriétés intellectuelles, vous devez inclure la notice pour la Bibliothèque parmi celles-ci, ainsi qu'une référence adressée à l'utilisateur vers une copie de cette Licence. Vous devez aussi effectuer l'une des tâches suivantes: <orderedlist numeration="loweralpha">

<li id="sect6a">Accompagner le travail avec le code source complet correspondant lisible par une machine pour la Bibliothèque incluant tout changement quelconque qui ont été effectués dans le travail (qui doit être distribué suivant les Sections <link linkend="sect1">1</link> et <link linkend="sect2">2</link> ci-dessus); et, si le travail est un exécutable lié avec la Bibliothèque, fournir la totalité du <quote>travail utilisant la Bibliothèque</quote> lisible par une machine, sous forme de code objet ou source, de sorte que l'utilisateur puisse modifier la Bibliothèque et la relier pour produire un exécutable modifié contenant la Bibliothèque modifiée. Il est admis que l'utilisateur qui change le contenu de fichiers de définition dans la Bibliothèque ne sera pas nécessairement capable de recompiler l'application pour utiliser les définitions modifiées.)</li>

<li>Utiliser un mécanisme approprié de bibliothèque partage pour lier avec la Bibliothèque. Un mécanisme approprié est celui qui (1) utilise l'exécution une copie de la Bibliothèque déjà présente sur le système de l'utilisateur, plutôt que de copier les fonctions de bibliothèque dans l'exécutable et (2) fonctionnera correctement avec une version modifiée de la Bibliothèque, si l'utilisateur en installe une, tant que la version modifiée est compatible au niveau de l'interface avec la version avec laquelle le travail a été réalisé.</li>

<li>Accompagner le travail avec une offre écrite, valable pour au moins trois ans, de donner au même utilisateur les éléments spécifiés dans la <link linkend="sect6a">Sous-section 6a</link>, ci-dessus, contre un paiement n'excédant pas le coût requis pour effectuer cette distribution.</li>

<li>Si la distribution du travail est faite en offrant l'accès une copie depuis un emplacement désigné, offrir un accès équivalent depuis le même emplacement pour copier les éléments spécifiés ci-dessus.</li>

</orderedlist>

</sect6>

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 48742
<sect2 id="sect7" label="7">
<title>Section 7</title>

<para> Vous pouvez placer les facilites de bibliothque qui sont un travail bas sur la Bibliothque et cte dans une bibliothque unique avec d'autres facilites de bibliothque non couvertes par cette Licence et distribuer une telle bibliothque combine, pourvu que la distribution spare du travail bas sur la Bibliothque et des autres facilites de bibliothque soient autrement permises et pourvu que vous effectuiez chacune des deux tches suivantes: </para>

<sect2 id="sect8" label="8">
<title>Section 8</title>

<para> Vous ne pouvez pas copier, modifier, accorder des sous-licences, lier ou distribuer la Bibliothque autrement que d'une faon derive expresssment par cette Licence. Autrement, toute tentative de copier, modifier, accorder des sous-licences, lier ou distribuer la Bibliothque est invalide et mettra fin automatiquement vos droits accords sous cette Licence. Toutefois, toute autre tierce partie qui a reu des copies ou des droits, par vous suivant les termes de cette Licence n'aura pas sa licence termine, aussi longtemps que cette partie tierce continue de s'y conformer pleinement. </para>

</sect2>
Vous n'êtes pas obligé d'accepter cette Licence, puisque vous ne l'avez pas signé. Cependant, rien d'autre ne vous accorde l'autorisation de modifier ou distribuer la Bibliothèque ou ses travaux dérivés. Ces actions sont également prohibées si vous n'acceptez pas cette Licence. Par conséquent, en modifiant ou distribuant la Bibliothèque (ou tout travail basé sur la Bibliothèque), vous indiquez votre acceptation de cette Licence pour le faire, ainsi que tous ses termes et conditions pour la copie, la distribution ou la modification de la Bibliothèque ou des travaux basés sur elle.

Chaque fois que vous redistribuez la Bibliothèque (ou tout travail basé sur la Bibliothèque), le destinataire reçoit automatiquement une licence par l'auteur d'origine de la licence, permettant de copier, distribuer, lier ou modifier la Bibliothèque en accord avec les présents termes et conditions. Vous ne pouvez pas imposer davantage de restrictions sur l'exercice par le concessionnaire de cette licence des droits accordés dans la présente licence. Vous êtes dégagé de la responsabilité de contrôler la conformité d'usage de cette Licence par des parties tierces.

Si, par suite d'une décision judiciaire ou d'une allégation d'infraction d'un brevet ou pour toute autre raison (non limité aux problèmes de brevets), des conditions vous sont imposées (que ce soit par une ordonnance de justice, une transaction amiable ou contractuelle ou toute autre raison) qui contredisent les conditions de cette Licence, elles ne vous échappent pas des obligations de cette Licence. Si vous ne pouvez pas effectuer une distribution de façon satisfaire simultanément vos obligations sous cette Licence et toute autre obligation pertinente, alors vous ne pouvez en aucun cas distribuer la Bibliothèque. Par exemple, si une licence de brevet ne permettait pas une redistribution de la Bibliothèque sans paiement de royalties par tous ceux qui en reçoivent des copies directement ou indirectement en vos de vous, alors la seule façon pour vous de vous satisfaire de toutes les conditions imposées et cette Licence sera de vous abstenir complètement de toute distribution de la Bibliothèque.

Si toute portion de cette section est jugée invalide ou inapplicable de plein droit dans une quelconque circonstance particulière, le maximum possible de cette section est supposé s'appliquer et la section dans son tout est supposé toujours applicable dans toutes les autres circonstances.

Le but de cette section n'est pas de vous obliger enfreindre un quelconque brevet ou d'autres prétentions des droits de propriété ou de contester la validité de telles prétentions; cette section a pour seul but de protéger l'intégrité du système de distribution des logiciels libres tel qu'il fonctionne au moyen de pratiques de licences publiques. De nombreuses personnes ont fait des contributions généreuses à la gamme très variée de logiciels distribués via ce système, en comptant sur l'application rigoureuse et cohérente de ce système; il appartient seulement à l'auteur ou au donateur de déterminer s'il ou elle désire distribuer un logiciel via un autre système et le concessionnaire de licence ne peut pas imposer ce choix.

Cette section a pour but d'établir de façon très claire ce que l'on croit être une conséquence nécessaire du reste de cette Licence.
Section 12

Si la distribution ou l'usage de la Bibliothèque est restreinte dans certains pays, que ce soit par des brevets ou des interfaces soumises au droit de propriété intellectuelle, le titulaire original de ce droit de propriété qui place la Bibliothèque sous la couverture de cette Licence peut ajouter une limitation géographique explicite de distribution excluant ces pays, afin que la distribution soit permise seulement dans ou parmi les pays non exclus. Dans un tel cas, cette Licence incorpore la limitation comme si elle tait rpute cite dans le corps de cette Licence.

Section 13

La Free Software Foundation peut publier des versions revues ou nouvelles de la Licence Générale Publique Limitée de temps en temps. De telles nouvelles versions resteront similaires l'esprit de la présente version, mais peut différer dans son détail afin de traiter de nouveaux problèmes ou préoccupations.

Section 14

Si vous souhaitez incorporer des parties de la Bibliothèque dans tout autre programme libre dont les conditions de distribution sont incompatibles avec ces termes, crivez l'auteur ou demandez son autorisation. Pour les logiciels dont les droits de propriété sont tenus par la Free Software Foundation, crivez la Free Software Foundation; nous faisons parfois des exceptions pour celui-ci. Notre décision sera guidée par les deux finalités de préservar le statut libre de tous les dris de nos logiciels libres et de promouvoir le partage et la rutilisation des logiciels en général.

Section 15

Puisque cette Bibliothèque fait l'objet d'une licence qui vous est accordé sans frais, il n'y a aucune garantie pour la Bibliothèque, dans les limites autorisées par la loi applicable. Moins que cela ne soit tabli différemment par écrit, les titulaires de droits de propriété ou les autres parties fournissent la Bibliothèque tellequ'elle sans garantie d'aucune sorte, qu'elle soit exprime ou implicite, ceci incluant, mais sans limitation, les garanties implicites de marchandabilité et d'adéquation un objectif particulier. Vous assumez seul le
RISQUE TOUT ENTIER CONCERNANT LA QUALIT ET LA PERFORMANCE DE LA BIBLIOTHQUE. 
DANS L'EVENTUALIT O LA BIBLIOTHQUE S'AVRERAIT DFECTUEUSE, VOUS ASSUMEREZ VOUS-MME 
LE COT DE TOUS LES SERVICES, RPARATIONS OU CORRECTIONS NCESSAIRES.</para>

<sect2 id="sect16" label="16">
<title>Section 16</title>

<para>EN AUCUNE AUTRE CIRCONSTANCE QUE CELLES REQUISES PAR LA LOI APPLICABLE OU 
ACCORDES PAR CRIT, UN TITULAIRE DE DROIT DE PROPRIT, OU TOUT AUTRE PARTIE QUI PEUT 
MODIFIER OU REDISTRIBUER LA BIBLIOTHQUE COMME PERMIS CI-DESSUS, NE POURRA TRE 
TENU POUR RESPONSABLE ENVERS VOUS POUR LES DOMMAGES, INCLUANT TOUS DOMMAGE 
GNRAL, SPcial, ACCIDENTEL OU INDUIT SURVENANT PAR SUITE DE L'UTILISATION OU DE 
L'INCAPACIT D'UTILISER LA BIBLIOTHQUE (CECI INCLUANT MAIS SANS LIMITATION LA PERTE DE 
DONNES OU L'INEXACTITUDE DES DONNES RETOURNES OU LES PERTES SUBIES PAR VOUS OU 
DES PARTIES TIERCES OU L'INCAPACIT DE LA BIBLIOTHQUE FONCTIONNER AVEC TOUT AUTRE 
LOGICIEL), MME SI UN TEL TITULAIRE OU TOUTE AUTRE PARTIE A T AVIS DE LA POSSIBILIT DE 
TELS DOMMAGES.</para>

</sect16>

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Version 2, June 1991

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

Preamble

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

This license, the Library General Public License, applies to some 
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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Ty Coon, President of Vice

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<abstract role="description">Softwarea partekatzeko eta aldatzeko askatasuna kentzeko diseinatuta daude software-lizentzia gehienak. Aitzitik, software librea partekatu eta aldatzeko duzun askatasuna bermatzea da GNU Lizentzia Publiko Orokorraren xedea, hau da, softwarea erabiltzaila guztientzat librea izango dela ziurtatzea.</abstract>

<sect1 id="preamble" label="none">
  <title>Aitzinsolasa</title>
</sect1>

<sect1 id="preamble" label="none">
  <title>Aitzinsolasa</title>
  <para>Software libreaz hitz egiten dugunean, askatasunari buruz arigara, eta ez prezioari buruz. Gure Lizentzia Publiko Orokorren xedea da software librearen kopiak banatzeko (eta, nahi izanez gero, zerbitzu horregatik kobratzeko) askatasuna duzula ziurtatzea, iturburu-kodea jasoko duzula edo, nahi izanez gero, hartzeko aukera duzula bermatzea, softwarea aldatzeko edo software zatiak beste programa libre berri batzuetan erabiltzeko eskubidea duzula segurtatzea eta gauza horiek egin ditzakezula jakinaraztea.</para>
</sect1>

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  <title>Aitzinsolasa</title>
  <para>Zure eskubideak babesteko, norbaitek zuri eskubide hauek ukatzea edo eskubide horiei uko eginaraztea debekatzeko eta eragozteko mugak jarri behar ditugu. Mugaketa horien ondorioz, softwarea aldatu edo kopiak
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Softwarea kopiatzeko, banatzeko eta aldatzeko baldintza zehatzak dituztu jarraian:

</para>

<sect2>
<title>1. atala</title>

<para>Programaren iturburu-kodea jaso bezala literalki kopiatu eta banatu dezakezu, edozein euskarritan, baldin eta behar bezala eta ikusteko moduan jartzen badiozu kopia bakoitzari egile-eskubideen oharra eta bermerik ez duela dioen oharra; Lizentziari eta bermerik ezari dagozkion ohar guztiak oso-osorik mantentzen badituzu; eta Programaren hartzai horietatik Lizentziaren kopia ematen badiez Programarekin batera.</para>

</sect2>

<sect2 id="sect1" label="1">
<title>1. atala</title>

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</listitem>
<listitem>
<para>You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.</para>
</listitem>
<listitem>
<para> If the modified program normally reads commands interactively when run, you
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<note>
<title>Exception:</title>
<para>If the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.
</para>
</note>

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<orderedlist numeration="loweralpha">
<li><para>...
Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

--

Exekutagarri edo objektu-kodeen banaketa xede horretarako zehaztutako leku batetik kopiatzeko sarbidea eskainiz egiten bada, leku beretik iturburu-kodea kopiatzeko sarbide baliokidea eskaintzea iturburu-kodearen banaketa gisa hartzen da, nahiz eta hirugarren alderdiak ez dauden behartuta objektu-kodearekin batera iturburua kopiatzera.

<sect2 id="sect5" label="5">
<title>5. atala</title>

<Lizentzia hau sinatu ez duzunez, ez daukazu onartu beharrik. Nolanahi ere, beste ezerk ez dizu emango Programa edo programatik eratorritako lanak aldatzeko edo banatzeko baimenik. Ekintza horiek legez debekatuta daude Lizentzia hau onartu ezean. Ondorioz, Programa (edo Programan oinarritutako edozein lan) aldatu edo kopiatzen baduzu, Lizentzia hau onartzen duzula adierazten duzu, eta horrekin batera, Programa edo Programan oinarritutako lanak kopiatzeko, banatzeko eta aldatzeko baldintza guztiak.</L>
</sect2>

<sect2 id="sect6" label="6">
<title>6. atala</title>


<sect2 id="sect7" label="7">
<title>7. atala</title>


<sect2 id="sect8" label="8">
<title>8. atala</title>

Atal honen zatiren bat baliogabea edo bete ezina bada egoera bereziren batean, atalaren gainerako guztia aplikatu beharko da, eta atala bere osotasunean aplikatu beharko da beste egoeretan.</sect2>
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PROGRAMAREN LIZENTZIA DOAN EMATEN DENEZ, PROGRAMAK EZ DU BERMERIK, LEGE APLIKAGARRIAK ONARTZEN DUEN NEURRIAN. AURKAKORIK ADIERAZTEN EZ DEN KASUETAN, JABETZA INTELEKTUALEKO ESKUBIDEA DUTENEK ETA/EDO BESTE ALDERDI BATZUEK PROGRAMA <quote>DAGOEN-DAGOENEAN</quote> EMATEN DUTE INOLAKO BERMERIK GABE, EZ ESPRESUKI ADIERAZITAKORIK ETA EZ INPLIZITURIK, BARNE HURTUZ, BAINA HORRETARA MUGATU GABE, MERKATURATZEKO EDO XEDE JAKIN BATERAKO EGOKITASUNAREN BERMEA. PROGRAMAREN KALITATEARI ETA ERRENDIMENDUARI DAGO KIONEZ, ZURE GAIN DAGO ARRISKU GUZTIA. PROGRAMAK AKATS IKANGO BALU, KONPONTZEO EDO ZUZENTZEKO BEHARREZKO ZERBITZU GUZTIEN KOSTUA ZURE GAIN HARTU BEHARKO ZENUKE.

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<sect2 id="sect3" label="3">
<title>Paragraph 3</title>

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<p>Liefern Sie das Programm zusammen mit dem vollstndigen zugehrenden maschinenlesbaren Quelltext auf einem fr den Datenaustausch blichen Medium aus, wobei die Verteilung unter den Bedingungen der Paragraphen 1 und 2 erfolgen mu. Oder:</p>

</sect2>
Liefern Sie das Programm zusammen mit einem mindestens drei Jahre lang gültigen schriftlichen Angebot aus, jedem Dritten eine vollständige maschinenlesbare Kopie des Quelltextes zur Verfügung zu stellen - zu nicht höheren Kosten als denen, die durch den physikalischen Kopiervorgang anfallen -, wobei der Quelltext unter den Bedingungen der Paragraphen 1 und 2 auf einem für den Datenaustausch blichen Medium weitergegeben wird.

Oder:

Liefern Sie das Programm zusammen mit dem schriftlichen Angebot der Zurverfügungstellung des Quelltextes aus, das Sie selbst erhalten haben. (Diese Alternative ist nur für nicht-kommerzielle Verbreitung zulässig und nur, wenn Sie das Programm als Objectcode oder in ausführbarer Form mit einem entsprechenden Angebot gem Absatz b erhalten haben.)

Oder:

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<title>Paragraph 7</title>

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<para id="fdl-modified"><quote>Spremenjena različica</quote> (v originalu Modified Version) dokumenta pomeni vsako delo, ki vsebuje ta dokument ali del tega, bodisi prepisan dobesedno ali s spremembami in/ali preveden v drug jezik.</para>

<para id="fdl-secondary"><quote>Drugotni razdelek</quote> (v originalu Secondary Section) se imenuje dodatek ali razdelek na prednjih straneh <link linkend="fdl-document">Dokument</link>, ki obravnava izkljuno odnose izdajatelja ali avtorja tega dokumenta do splone vsebine dokumenta (ali s tem povezanih vsebin) in ne vsebuje neskar, kar bi sodilo neposredno v to sploho vsebino. (e je, denimo, ta dokument del ubenika matematike, drugotni razdelek ne sme vključevati razlage matematike.) Odnos je lahko stvar zgodovinske povezave s predmetom ali s povezanimi vsebinami, ali pravni, pridobitni, filozofski, etni ali politini poloaj glede teh vsebin.</para>

<para id="fdl-invariant"><quote>Nespremenljivi razdelki</quote> (v originalu Invariant Sections) so doloeni <link linkend="fdl-secondary">Drugotni razdelki</link>, katerih naslovi so oznaeni kot nespremenljivi razdelki v izjavi, da se ta <link linkend="fdl-document">Dokument</link> razirja pod pogoji tega dovoljenja.</para>

<para id="fdl-cover-texts"><quote>Besedila na platnicah</quote> (v originalu Cover Texts) so doloeni kratki deli besedila, ki so nateti kot besedila za prvo ali zadnjo stran knjige, v izjavi, ki pravi, da je <link linkend="fdl-document">Dokument</link> izdan pod pogoji tega dovoljenja.</para>

<para id="fdl-transparent"><quote>Jasen izvod</quote> (v originalu Transparent copy) dokumenta pomeni izvod v strojno berljivi obliki, katere dololja so dostopna sploni javnosti, katerega vsebina lahko gleda in ureja neposredno in enostavno s splonimi urejevalniki besedila ali (za bitne slike) splonimi risarskimi programi ali (za risbe) nekaterimi splono dostopnimi urejevalniki risb, in je primeren kot vhod oblikovalnikom besedila ali za samodejno pretvarjanje v razline druge oblike, primerne za vhod oblikovalnikom besedila. Izvod sicer jasne datoteke, katere oznake so bile zasnovane tako, da bralcem prepreijo ali oteijo naknadne spremembe, ni Jasen. Izvod, ki ni <quote>Jasen</quote>, se imenuje <quote>Nejasen</quote>.</para>

<para>Nekateri primeri primernih oblik zapisa za jasne izvode so: ASCII ali ISO 8859-2 brez oblikovanja, vhodna oblika za Texinfo, vhodna oblika za LaTeX, SGML ali XML, ki uporablja javno dostopen DTD, in preprosta standardna oblika HTML, namenjena temu, da jo spremeni lovek. Nejasne oblike vključujejo PostScript, PDF, lastnike oblike, ki jih lahko beremo in urejamo le z lastnikimi urejevalniki besedila, SGML ali XML, za katerega DTD in/ali orodja za obdelavo niso splono dostopna, in strojno ustvarjen HTML, ki ga nekateri urejevalniki besedil izdelujejo le kot izhodno obliko zapisa.</para>

<para>Naslovna stran</para> pri natisnjeni knjigi pomeni smo naslovno stran skupaj s taknimi nadaljnjimi stranmi, ki so neizogibne za itljivo izraanje stvari, za katere to dovoljenje zahteva, da se pojavljajo na naslovni strani. Za dela v oblikah, ki nimajo naslovne strani kot take, <quote>Naslovna stran</quote> pomeni besedilo blizu najvidnejše pojavitvi naslova dela, pred zaetkom telesa besedila.

<sect1 id="fdl-section2" label="2" title="Dobesedno razmnoevanje">
<para>Dobesedno razmnoevanje</para>
<para>Dokument</link> je dovoljeno razmnoevati in razirjati na kakrenkoli nain, pridobitno ali nepridobitno, e je le na vsakem izvodu objavljeno to dovoljenje, izjave o pravicah razirjanja, in obvestilo dovoljenja, ki pravi, da se to nanaa na ta dokument, in da doloilom tega dovoljenja niso posebej dodane omejitve. Ni dovoljeno uporabljati tehnikh ukrpov, ki bi prepreevali ali nadzorovali branje ali nadaljnje razirjanje izvodov, ki jih naredite ali razirjate. Izvode je dovoljeno zaraunati. V kolikor razirjate dovolj veliko tevilo izvodov,
je treba upotevati tudi doloila iz 3. razdelka."

Izvode je dovoljeno posojati, pod enakimi pogoji, kot so opisani zgoraj, in jih tudi javno prikazovati.</sect1>

sect1 id="fdl-section3" label="3">
title=Mnoino razmnoevanje&lt;/title>
<para>Pri izdajanju natisnjencih izvodov tega &lt;link linkend="fdl-document">Dokumenta&lt;/link&gt; v nakladi ve kot 100 izvodov, in dovoljenje dokumenta zahteva tudi &lt;link linkend="fdl-cover-texts">Besedila na platnicah&lt;/link&gt;, je treba izvode obdati s platnicami, ki itljivo in razumljivo nosijo vsa ta Besedila na platnicah: besedila na naslovnicni in besedila na zadnji strani platnic. Na obeh platnicah mora biti tudi itljivo in razumljivo zavedeno imenovanje izdajatelja teh izvodov. Prednja platnica mora vsebovati popoln naslov z vsemi enako izrazito natisnjenci in vidnimi besedami naslova. Na platnic je ob tem dovoljeno dodati tudi druge stvari. Kopiranje s spremembami, omejenimi na platnice, e le ohranijo naslov tega &lt;link linkend="fdl-document">documenta&lt;/link&gt;in zadoajo tem pogojojem, se lahko v drugih ozirih tejejo za dobesedno kopiranje.&lt;/para>

&lt;para&gt;e je zahtevanih besedil za katero od platnic preve, da bi jih bilo mogoce podati itljivo, je treba najprej vstaviti prve natete (kolikor jih pa razumno gre) na pravo platnico, in vstaviti preostanek na strani, ki neposredno sledijo naslovnicni.&lt;/para&gt;

&lt;para&gt;e objavljate ali razirjate &lt;link linkend="fdl-transparent">Nejasne izvode&lt;/link&gt; tega &lt;link linkend="fdl-document">Dokumenta&lt;/link&gt;, v nakladi ve kot 100 izvodov, je treba bodisi vkljuiti strojno berljivo &lt;link linkend="fdl-transparent">Jasno obliko&lt;/link&gt; poleg vsakega Nejazega izvoda, ali poleg vsakega Nejazega izvoda objaviti tudi javno dostopno mesto v raunalnikem omreju, kjer je dostopna popolna Jasna kopija dokumenta, brez dodatnega materiala, in kjer jo sploa javnost, ki uporablja omreje, lahko brezplano prejme preko javnih standardnih omrbenih protokolov. e uporabite zadnjo izbijo, je treba razumno predvidno poskrbeti za to, da bo po objavi Nejasne oblike dela, Jasna oblika ostala dostopna na objavljenem mestu vsaj e eno leto po pretoku datuma, ko je javnosti posredovan (neposredno ali prek zastopnikov oziroma trgovcev na drobno) zadnji Nejasni izvod.&lt;/para&gt;

&lt;para&gt;Priporoeno je, ne pa tudi zahtevano, da se precej pred zaetkom razirjanja vejega tevila izvodov, vzpostavi stik z avtorji tega &lt;link linkend="fdl-document">Dokumenta&lt;/link&gt;, da imajo monost priskrbeti pred razirjanjem posodobljene razliice dokumenta.&lt;/para&gt;

sect1 id="fdl-section4" label="4">
title=Spremembe&lt;/title>
<para>Spremenjeno razliico tega &lt;link linkend="fdl-document">Dokumenta&lt;/link&gt; je dovoljeno razmnoevati in razirjati pod pogoji iz &lt;link linkend="fdl-section2">2.&lt;/link&gt; in &lt;link linkend="fdl-section3">3.&lt;/link&gt; razdelka, v kolikor bo izdana &lt;link linkend="fdl-modified">Spremenjena razliica&lt;/link&gt; pod tongo tem dovoljenjem, kjer Spremenjena razliica prevzame vlogo tega dokumenta, in torej to dovoljenje ureja razirjanje in spreminjanje Spremenjene razliice za kogarkoli, ki poseduje njen izvod. Poleg tega je treba v Spremenjeni razliici narediti e naslednje:&lt;/para&gt;

<liitemizedlist mark="upper-alpha"&gt;
<li&gt;Na &lt;link linkend="fdl-title-page">naslovn strani &lt;/link&gt; (ali platnicah, e obstajajo) uporabite naslov, razljen od naslova izvirnega &lt;link linkend="fdl-document">Dokumenta&lt;/link&gt; in vseh prejnjih razliic (ki bi morale
biti, e jih je kaj, natete v razdelku Zgodovina v dokumentu), e se izvirni zalonik s tem strinja, lahko uporabite isti
naslov kot ga ima prejnja razliica.</para>
</listitem>

<listitem>
<para>Na naslovni strani kot avtorje nateti eno ali ve oseb ali drub, odgovornih za avtorstvo sprememb v Spremenjeni razliici, skupaj z vsaj petimi glavnimi avtorji Spremenjene razliice.</para>
</listitem>

<listitem>
<para>Ohraniti vsa obvestila o pravicah razirjanja Dokumenta.</para>
</listitem>

<listitem>
<para>Dodati ustrezno obvestilo o pravicah razirjanja za vse spremembe poleg drugih obvestil o pravicah razirjanja.</para>
</listitem>

<listitem>
<para>Tako po obvestilih o pravicah razirjanja vključiti obvestilo dovoljenja, ki javno dovoljuje rabo Spremenjene razliice pod pogoji tega dovoljenja, v obliki, prikazani v Dodatku, spodaj.</para>
</listitem>

<listitem>
<para>V tem obvestilu dovoljenja ohranite popoln seznam Nespremenljivih razdelkov in zahtevanih Besedil na ovitku, podanih v obvestilu dovoljenja tega Dokumenta.</para>
</listitem>

<listitem>
<para>Vključite nespremenjen izvod tega dovoljenja.</para>
</listitem>

<listitem>
<para>Ohranite razdelek, imenovan Zgodovina, in njegov naslov, in vanj dodajte postavko z vsaj naslovom, letom, novimi avtorji in izdajateljem Spremenjene razliice, kot je podana na naslovni strani Dokumenta. e v dokumentu ni razdelka, imenovanega Zgodovina, ga ustvarite, in podajte naslov, leto, avtorje in izdajatelja Dokumenta kot je podan na njegovi Naslovni strani, potem pa e dodajte postavko, v kateri opiite Spremenjeno razliico, kot pie v prejnjem stavku.</para>
V kolikor obstaja, je priporočeno ohraniti omreno mesto, za javni dostop do Jasnih izvodov Dokumenta, ki je navedeno v dokumentu, in podobno tudi vsa omrena mesta s prejšnji razlicami dokumenta, ki so navedena v dokumentu. Priporoljivo jih je dodati v razdelek Zgodovine. Mogoe pa je omrena mesta tudi izpustiti za delo, ki je bilo izdano vsaj tiri leta pred samim dokumentom, ali, e izdajatelj, omenjen v ustrezi različi to dovoli.

V vsakem razdelku, poimenovanem Zahvale ali Posvetila, je treba ohraniti naslov razdelka in v razdelku ohraniti vse izvorno vsebino za vse podane zahvale in ali posvetila.

Ohraniti je treba vse Nespremenljive razdelke Dokumenta, z nespremenjenim besedilom in naslov. tevilke ali druge oznake razdelkov se ne tejejo za del naslovol razdelkov.

Izbrisati je treba vse razdelke, naslovljene Odobritve. Takni razdelki ne smejo biti vključeni v Spremenjene različi.

Ni dovoljeno preimenovati kateregakoli obstojeega razdelka v Odobritve ali v isto ime, kot ga ima Nespremenljivi razdelek.

V primeru, da Spremenjena različica vključuje nove elne razdelke ali dodatke, ki tejejo za Drugotne razdelke in ne vsebuje iz dokumenta prepisane snovi, je dovoljeno po lastni presoji označiti nekatere ali vse takne razdelke kot nespremenljive. To je treba storiti tako, da se dodajo njihovi naslovi v seznam Spremenjenljivih razdelkov v obvestilu dovoljenja Spremenjenih različ. Ti naslovi se morajo razlikovati od vseh drugih naslovol razdelkov.

Dodate lahko razdelek, imenovan Odobritve, e ne vsebuje ni drugega kot odobritve vae Spremenjene različice različnih strank na primer, recenzijske izjave ali besedilo, ki je bilo odobreno s strani organizacije kot veljavna definicija standarda.

Kot Besedilo na naslovnici Besedilo na zadnji strani pa omejeno dodati odlomek najve 25 besed. Vsaka oseba lahko doda le po en odlomek
Besedilu na naslovnici in Besedilu na zadnji strani platnic, vkljuno z odlomki po dogovorih. E <link linkend="fdl-document">Dokument</link> e vsebuje besedilo, ki je bil e dodan ali je bil dodan po dogovoru z isto (fizino ali pravno) osebo v zastopstvu, ni dovoljeno dodati e enega, pa pa je dovoljeno starega nadomestiti z izrecnim soglasjem prejnjega izdajatelja, ki je stari odlomek odal. <para>

Avtorji in izdajatelji <link linkend="fdl-document">Dokumenta</link> s tem dovoljenjem ne dovolijo uporabe njihovih imen ali pridržitve ali implicitnega soglasja za katerokoli <link linkend="fdl-modified">Spremenjeno razliico</link>./<para>

</sect1>

<sect1 id="fdl-section5" label="5">
<title>Zdrujanje dokumentov</title>
<para>Dokument <link linkend="fdl-document">Dokument</link> je dovoljeno zdrujevali s katerimikoli drugimi dokumenti, izdanimi pod pogoji tega dovoljenja, pod zgornjimi pogoji za spremenjene razlike iz <link linkend="fdl-section4">4. razdelka</link>, e vključite vse <link linkend="fdl-invariant">Nespremenljive razdelke</link> vseh izvirnih dokumentov, nespremenjenih, in so v izjavi dovoljenja mateti kot Nespremenljivi razdelki novega, zdruenega dela.</para>

Zdrueno delo zahteva le en izvod tega dovoljenja, in ve istih <link linkend="fdl-invariant">Nespremenljivih razdelkov</link> se lahko nadomesti z enim samim. E obstaja ve Nespremenljivih razdelkov z istim imenom, vendar razlino vsebino, je treba naslov vsakega od njih spremeniti v edinstvenega, tako da na njegov konec v oklepajah dodate ime izvirnega avtorja ali izdajatelja, e vam je znano, sicer pa edinstveno tevilo. Iste spremembe je treba narediti v imenih razdelkov v seznamu Nespremenljivih razdelkov v izjavi dovoljenja vaega zdruenega dela.</para>

V zdruzenem delu je treba zdruiti vse razdelke v razlinih izvirnih dokumentih, poimenovane <quote>Zgodovina</quote>, tako da se oblikuje en sam razdelek <quote>Zgodovina</quote>: podobno je treba zdruiti vse razdelke <quote>Zahvale</quote> in <quote>Posvetila</quote>. Izbrisati pa je treba vse razdelke, poimenovane <quote>Odobritve</quote>. <para>

</sect1>

<sect1 id="fdl-section6" label="6">
<title>Zbirka dokumentov</title>
Dovoljeno je napraviti zbirko tega <link linkend="fdl-document">Dokumenta</link> in drugih dokumentov, izdanih pod pogoji tega dovoljenja, in nadomestiti posamezne izvode tega dovoljenja v razlinih dokumentih z enim samim izvodom, ki je vključen v zbirko, upotrebovajo zahteve tega dovoljenja za dobesedno razmnoevanje vsakega razdelka v vseh drugih pogledih.</para>

Iz take zbirke je dovoljeno izluiti posamezen dokument in ga posebej razirjati pod pogoji tega dovoljenja, e je v izlutenen dokument vstavljen izvod tega dovoljenja in vseh drugih ozirih glede dobesednega razmnoevanja upotrebijo to dovoljenje.</para>

</sect1>

<sect1 id="fdl-section7" label="7">
<title>Zdrujanje z neodvisnimi deli</title>
Zdrujevanje <link linkend="fdl-document">Dokumenta</link> ali njegovih izpeljanih razliic z drugimi loenimi in neodvisnimi dokumenti ali deli, v knjigi ali kakrnemkoli nosilcu hrambe ali razirjanja, kot celota ne teje za <link linkend="fdl-modified">Spremenjeno razliico</link> dokumenta, e za zdrueno zbirko nihe ne zahteva
pravic razirjanja. Takno zdrueno delo se imenuje <quote>zbirka</quote> in to dovoljenje ne velja za druga samostojna dela, tako zdruena z dokumentom, zaradi tega, ker so zdruena z dokumentom, e niso sama izpeljana dela dokumenta. V kolikor so zahteve <link linkend="fdl-cover-texts">besedila na ovitku</link> skladne z <link linkend="fdl-section3">oddelkom 3</link> tega dokumenta, potem je dovoljeno, v kolikor je dokument del, ki je manji od ettrine celotne zbirke, besedilo na naslovnic postaviti na platnic, ki sta neposredno povezani le z dokumentom v zbirki. Sicer mora biti besedilo izpisano na naslovnicah celotne zbirke.</para>

</sect1>

<sect1 id="fdl-section8" label="8">
<title>Prevod</title>

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</sect1>

<sect1 id="fdl-section9" label="9">
<title>Prenehanje veljavnosti</title>


</sect1>

<sect1 id="fdl-section10" label="10">
<title>Prihodnje popravljene izdaje tega dovoljenja</title>


</sect1>

<sect1 id="fdl-using" label="none">
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<title>Uvod</title>

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<note>
<title>Exception:</title>
<para>
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announcement.
</para>
</note>

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Lizentzia hau <quote>copyleft</quote> modukoa da, hau da, dokumentu honetan eratorritako lan guztiek ere libreak izan behar dute zentzu berean. GNU Lizentzia Publiko Orokorra (software librearentzat diseinatutako "copyleft" lizentzia) osatzen du.</para>

Lizentzia hau software librearen eskuliburuentzat erabilitzea diseinatu dugu, izan ere, software libreak dokumentazio librea behar baimitu. Programa libre baten eskuliburuak software librearen askatasun berberak izan behar ditu. Baina lizentzia hau ez da software-eskuliburuentzat soilik; edozein testu-lanentzat erabil dite, zein gairi buruzkoa den eta liburu gisa inprimatu dagoen ala ez kontuan hartu gabe. Lizentzia hau batez ere gida edo erreferentzia izatea helburu duten lanentzat erabiltzea gomendatzen dugu.

Aplikagarritasona eta definizioak

Eskuliburu edo bestelako lan bati Lizentzia honen baldintzen pean bana daitezkeela adierazten duen oharra jarri baldin bideo egile-eskubideen jabeak, eskuliburu edo lan horri lizentzia hau aplikatuko zaio. Hemendik aurrera Dokumentua aipatzen denean, horrelako eskuliburu edo lanei egiten dute erreferentzia. Publikoko edonor da lizentziaren hartzaila, eta <quote>zu</quote>ren bidez adierazten da.</para>

Dokumentuaren <quote>Bertsio aldauta</quote> esaten denean, Dokumentu hau osorik edo zati batean biltzen duen edozein lan adierazten da, hau da, kopia literalra, aldaketak dituena edo beste hizkuntzak batera itzulitakoak da.</para>

Atal sekundarioa

Dokumentuaren argitaratzaileen euren erakaularik izenduta edo gai nagusiaren aurreko hasierako atala da, eta Dokumentuaren argitaratzaileen gai nagusiaren aurreko hasierako atala da, eta Dokumentuaren argitaratzaileen gai nagusiaren aurreko hasierako atala da, eta Dokumentuaren argitaratzaileen gai nagusiaren aurreko hasierako atala da, eta Dokumentuaren argitaratzaileen gai nagusiaren aurreko hasierako atala da, eta
Atal aldaezinak

Dokumentua

Lizentzia honen baldintzak erabilaren ordea gero egun erabilgarriak daude.

Dokumentuaren kopia "gardena" makina bidez irakurzegatik moduko kopia da eta, gainera, publiko orokorren erabilizko moduko formatuduna, zuzenean testu-editore arruntekin ikusi eta edita daitekeena, edo, pixeleatan osatutako irudia bada, pintatzezko editore orokorrekin editatzezko modukoa edo, marrazkia bada, marrazki-editore oso erabilgarriekin editatzezko modukoa; horrez gain, testu-formateatzaileetan sargai edo input gisa erabiltzen da, edo testu-formateatzaileek sargai gisa onartzuen duten formatuetakoa batera automatikoki itzul daitekeena. Beste bateko fitxategi-formatu Gardenean egindako kopia, irakurleek aldaketak egiteko eragozpenak eta trabak jartzeko diseinatutako marka-sistema duena, ez da Gardena. 


KOPIA LITERALAK

EDOZEIN EUSKARRITAN KOPIATU ETA BANATU DEZAKUZKOA

KANTITATE HANDIAK KOPIATZEA
Apropos de Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

Dokumentuaren lizentzia-oharrak Azaleko testuak behar baditu, aurreko azaleko testuak aurreko azalean, eta Atzeko azaleko testuak atzeko azalean. Bi azaleak modu argi eta irakurgarian identifikatu behar zaituzte kopia horien argitaratzaila gisa. Aurreko azalak titulu osoa izan behar du, eta tituluaren hitz guztiak maila berdinean izan behar dute nabarmenak eta ikusteko modukoak. Horrez gainera, beste material batzuk ere gehi ditzakezu azalean. Azaletara mugaturatuko egindako kopiek, Dokumentuaren titulua mantentzen bada eta baldintza horiek betez egiten badira, kopia literalizatz jo daiteke beste alderdi batzuei dagokienez.</para>

Azaletan jarri beharreko testuak luzeegiak badira modu irakurgarrian ipintzeko, zerrendako lehenak jarri behar ditu azalean bertan (sartzen diren guztiak), eta hurrengo orrietan jarraitu besteekin.</para>

Aren 100 kopia baino gehiago argitaratzen badituzu, eta Dokumentuaren lizentzia-oharrak Azaleko testuak behar biditu, kopiea nahitaez jarri behar dizkiezu argi eta garbi irakurtzen diren Azaleko testu hauek: aurreko azaleko testuak aurreko azalean, eta Atzeko azaleko testuak atzeko azalean. Bi azaleak modu argi eta irakurgarian identifikatu behar zaituzte kopia horien argitaratzaila gisa. Aurreko azalak titulu osoa izan behar du, eta tituluaren hitz guztiak maila berdinean izan behar dute nabarmenak eta ikusteko modukoak. Horrez gainera, beste material batzuk ere gehi ditzakezu azalean. Azaletara mugaturatuko egindako kopiek, Dokumentuaren titulua mantentzen bada eta baldintza horiek betez egiten badira, kopia literalizatz jo daiteke beste alderdi batzuei dagokienez.</para>

Aren titulua mantentzen bada eta baldintza horiek betez egiten badira, kopia literaltzat jo daiteke beste alderdi batzuei dagokienez.</para>

Aren 100 kopia Opako argitaratzen edo banatzen badituzu, kopia Opako bakoitzarekin batera makinaz irakurtzeko moduko kopia Dokumentuaren kopia Garden osoa daukan, gehiturako materialik gabe, sare-erabiltzaile arruntak anonimoki deskargatu ahal izateko doan eta sare-protokolo estandar publikoik bidez. Azken ukeraren bidetik jotzen baduzu, zentzuetan eta zuhur jokatu behar duzu kopia Opako asoko banatzen hasitean, kopia Garden hori adierazitako kokalekuan urtebetean gutxienez erabilgarri eta atzigarri egongo dela segurtatzezko zu edizio horren azken kopia Opakoia (zuzenean edo zure agentee edo xehekarien bidez) publikoari banatzen diozunetik kontatzen hasita.</para>


Zuzen ere, aurreko prosesuaren ondorioz, kopiatuaren kopia edo banatzen horiezko kopiatuaren kopia Garden osoa da, gehiturako materialik gabe, sare-erabiltzaile arruntak anonimoki deskargatu ahal izateko doan eta sare-protokolo estandar publikoik bidez. Azken ukeraren bidetik jotzen baduzu, zentzuetan eta zuhur jokatu behar duzu kopia Opako asoko banatzen hasitean, kopia Garden hori adierazitako kokalekuan urtebetean gutxienez erabilgarri eta atzigarri egongo dela segurtatzezko zu edizio horren azken kopia Opakoia (zuzenean edo zure agentee edo xehekarien bidez) publikoari banatzen diozunetik kontatzen hasita.
aldatu</link>an aldaketak egin dituen pertsona edo erakunde baten edo gehiagoren izena jarri behar duzu, eta, horrekin batera, <link linkend="fdl-document">Dokumentu</link>aren bost egile nagusien izena gutxienez (eta bost baino gutxiago badira, guztiena).</para>
</listitem>

</listitem>

<para><link linkend="fdl-title-page">Titulu-orri</link>an <link linkend="fdl-modified">Bertsio aldatu</link>aren argitaratzailearen izena jarri behar duzu, argitaratzaile gisa.</para>
</listitem>

</listitem>

<para>Dokumentu</link>aren copyright-ohar guztiak gorde behar dituzu.</para>
</listitem>

</listitem>

<para>Zure aldaketei dagokien copyright-oharra gehitu behar duzu beste copyright-oharren ondoan.</para>
</listitem>

</listitem>

<para>Copyright-oharren jarraian, lizentzia-ohar bat ipini behar duzu, jendeari baimena emateko <link linkend="fdl-modified">Bertsio aldatu</link> erabil dezan Lizentzia horren baldintzen pean, beheko Eranskinean azaltzen den bezala.</para>
</listitem>

</listitem>

<para>Lizentzia-ohar horretan <link linkend="fdl-document">Dokumentu</link>aren lizentzia-oharrean adierazitako <link linkend="fdl-invariant">Atal aldaezin</link> eta jarri beharreko <link linkend="fdl-cover-texts">Azaleko testu</link> guztien zerrenda gorde behar duzu.</para>
</listitem>

</listitem>

<para>Lizentzia honen kopia ere, aldaketarik gabe jarri behar duzu.</para>
</listitem>

</listitem>

<para><quote>Historia</quote> izeneko atala gorde behar duzu, baita bere titulu ere, eta gutxienez <link linkend="fdl-modified">Bertsio aldatuaren</link> izenburua, urtea, autore berriak eta argitaratzailea aipatuko dituen elementu bat gehitu behar diozu, <link linkend="fdl-title-page">Titulu-orri</link>an agertzzen den bezala. <quote>Historia</quote> izeneko atalik ez badago <link linkend="fdl-document">Dokumentu</link>aren, zeuk sortu beharko duzu, Dokumentuaren titulu, urtea, autoreak eta argitaratzailea adierazteko Dokumentuaren Titulu-orriaren agertzzen den bezala, eta, gainera, Bertsio aldatuaren deskribatzeko beste elementu bat gehitu beharko duzu aurreko esaldian azaldutako moduan.</para>
</listitem>

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</listitem>

<para>Dokumentuaren kopia <link linkend="fdl-transparent">Gardena</link> publikoki atzitzeko <link linkend="fdl-document">Dokumentu</link>an ematen den sare-helbidea (helbiderik ematen bada) gorde behar duzu, eta, era berean, Dokumentuaren oinarri izan diren aurreko bertsioentzat ematen diren sare-helbideak ere bai.
Helbide horiek <quote>Historia</quote> atalean sar daitezke. Sare-helbideak ez dira nahitaez jari behar, Dokumentua bera baino gutxienez lau urte lehenago argitaratutako lanari dagokionak baldin badira, edo horretarako haimena ematen badu bertsoaren jatorrizko argitaratzaileen.<para>
</listitem>

<li><para>Eskertzak</para> edo <quote>Eskaintzak</quote> izeneko edozein ataletan, atalaren titulua gorde behar da, eta ataleko eskertza edota eskaintza bakoitzean egileak darabilen gai eta tonua errespetatu behar dira.</para>
</listitem>

<li><para>Errespetatu <link linkend="fdl-document">Dokumentu</link>aren <link linkend="fdl-invariant">Atal aldaezin</link> guztiak, testuak eta tituluak batere aldatu gabe. Atal-zenbakiak edo haien baliokideak ez dira atalaren tituluaren zatitzat hartzen.</para>
</listitem>

</listitem>

<li><para>Lehendik dagoen atal bati ez jarri <quote>oniritziak</quote> eta <link linkend="fdl-invariant">Atal aldaezin</link>en baten tituluarekin gatazka sor lezakeena ere.</para>
</listitem>

<li><para>Bertsio aldatuak</para> gai nagusiari buruzko atal berriak edo eranskinak baditu, <link linkend="fdl-secondary">Atal Sekundario</link>aren <link linkend="fdl-modified">Bertsio aldatu</link>aren lizentzia-oharrean. Titulu horiek gainerako atalen tituluen ezberdinak izan behar dute.</para>

<li><para>Oniritziak</para> titulua duen atala gehi dezakezu, baldin eta zure <link linkend="fdl-modified">Bertsio aldatu</link>ari buruz alderdiek emandako oniritziak soilik bitzen badira, eta ez beste ezer --adibidez, adituek egindako ikuskatzea edo erakunde batek testua estandartzat onartu duela, eta abar--.</para>

<li><para>Gehienez bost hitz dituen pasartea gehi dezakezu <link linkend="fdl-cover-texts">Aurreko azaleko testu</link> gisa, eta gehienez 25 hitzeko pasartea <link linkend="fdl-cover-texts">Atzeko azaleko testu</link> gisa <link linkend="fdl-modified">Bertsio aldatu</link>aren <link linkend="fdl-cover-texts">Azaleko testu</link>en zerrendaren bukaera. Aurreko azaleko testu bakar bat eta Atzeko azaleko testu bat gehi daiteke entitate baten bidez (edo entitate batek egindako egokitzapen bidez). Dagoeneko <link linkend="fdl-document">Dokumentu</link>ak ak azaleko testua baldin badauka azal berarentzat, aurretik zuk edo zu ordezkatzoen zaituen entitateak gehitutakoak, ezingo duzu beste testurik gehitu, baina nahi izanez gero, lehendik dagoena ordeztu dezakezu, testu zaharra gehitu zuen argitaratzaileen baimen esplizitua baldin baduzu.</para>


Bilduma horretatik dokumentu bat atera eta banaka banatu dezakezu Lizentzia honen pean, baldin eta ateratakako dokumentuaren titulua bat jartzen badiozu, eta kopixa literalei dagokien izen berdinean Lizentziaren beste alderdi guztiak betetzen baditu. Bilduma horretatik dokumentu bat atera eta banaka banatu dezakezu Lizentzia honen pean, baldin eta ateratakako dokumentuaren titulua bat jartzen badiozu, eta kopixa literalei dagokien izen berdinean Lizentziaren beste alderdi guztiak betetzen baditu.
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

Dokumentuaren kopia hauei aplikatzerik baldin badago, Dokumentua aggregazioaren barnean biltzen duten azaletan bakarririk jar daitezke Azaleko testuak Dokumentua agregazio osoaren laurdena baino txikiagoa bada. Bestela, agregazio osoa inguratzen duten azaletan jarraiko behar dira diru testu horiek.

</sect1>

<sect1 id="fdl-section8" label="8">
<title>ITZULPENA</title>


</sect1>

<sect1 id="fdl-section9" label="9">
<title>AMAIERA</title>

<para>Lizentzia honen baitan espresuki adierazitakoa betetzen ez bada, debekatuta dago <link linkend="fdl-document">Dokumentua</link> kopiatzea, aldatzea, azpilizentziatzea edo banatzeko. Dokumentua beste edozein eratan kopiatu, aldatu, azpilizentziatu edo banatzeko saio oro deuseza izango da, eta Lizentzia honek ematen dizkizun eskubideak automatikoki kenduko zaizkizuna. Dena den, Lizentzia honen pean zuregandik kopiak edo eskubideak jasotuz bereganak ez ezagurtzen dugu. Lizentzia honen izula eta jatorrizko izula balioko bat ez badatoz, jatorrizko bertsioa balioko du.</para>

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<sect1 id="fdl-section10" label="10">
<title>LIZENTZIA HONEN ETORKIZUNEKO BERRIKUSPENAK</title>


</sect1>

<sect1 id="fdl-using" label="none">
<title>Eranskina</title>

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</blockquote>

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argitaratutako GNU Dokumentazio Librearen Lizentziaren 1.1. bertsoan edo berriago batean ezarritako baldintzak betetzen badira; <link linkend="fdl-invariant">Atal Aldaezin</link> hauekin: ZERRENDATU TITULUAK, <link linkend="fdl-cover-texts">Aurreko azal</link>eko testu hauekin: IDATZI ZERRENDA, eta <link linkend="fdl-cover-texts">Atzeko azal</link>eko testu hauekin: IDATZI ZERRENDA. Lizentziaren kopia bat aurrkituko duzu <quote>GNU Dokumentazio Librearen lizentzia</quote> atalean.</para>
</blockquote>

<para><link linkend="fdl-invariant">Atal aldaezin</link>ik ez baduzu, idatzi <quote>Atal aldaezinik gabe</quote> aldaezinak zein diren adierazi beharrean. Ez baduzu <link linkend="fdl-cover-texts">Aurreko azaleko testu</link>rik, idatzi <quote>Aurreko azaleko testurik gabe</quote> <quote>Aurreko azaleko testu hauekin: ZERRENDA</quote> jarri beharrean, eta gauza bera <link linkend="fdl-cover-texts">Atzeko azaleko testu</link>ekin. </para>

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<title>Seo 11</title>

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<title>Seo 12</title>

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<title>Seo 16</title>

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<sect2 id="sect8" label="8">
<title>8</title>
<para>, , , , , , :</para>
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<sect2 id="sect11" label="11">
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<sect2 id="sect12" label="12">
<title>12</title>
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<listitem>
<para>You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
</para>
</listitem>
<listitem>
<para>You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
</para>
</listitem>
<listitem>
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</para>
</listitem>
</orderedlist>
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Cui cng, chng trnh t do no cng lun b e da bi bng sng ch phn mm. Chng ti mun trnh nguy c vic nhng ngi nh gi thy Chng trnh hay mt phn ca n, hoc ng nguyn vn hoc vi s sa i v/hoc c dch sang mt ngu ng nh g. (K t cu ny, vic dch ng ng c bao gm v hn trong thut ng s sa i.) Ng c cp Giy php c gi l bn.

Nhung hot ng kho ngi s Sao c, ph th nh g v sa i kho ng c kim sot bi Giy php ny; n ngi phm vi ca giy php ny. Nhng ng c quy cng trnh hng bo nh ch, v d liu xut t Chng trnh ch b hng ch nu ni dng ca n to thnh mt sn phm da vo Chng trnh (hng ph thuc vo vic vn lh Chng trnh). iu nh g nh khi ph thuc vo iu m Chng trnh to ra.

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Nhung iu kin ny p dng cho ton b sn phm b sa i. Nu c th nhn ra phn ring ca sn phm khng bt ngun t Chng trnh, v cc phn ny c th c xem mt cch hp l l sn phm ring v khng ph thuc, th Giy php ny, v cc iu kin ca n, khng p dng
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- Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)
Mùng ca sn pm ch th c thc khi sa i n. i vi sn pm h tp tin chy c, ton b m ngun c nha l th c cc m ngs cho mi m-un cha, cng vi bt c tp tin xc nh gia din tng ng, cng vi cc tp lnh c dng iu khin tin trnh bin dch v ci t tp tin chy c. Tuy nhin, ngoi l c bit l m ngun c th hnh khng cn phi bao gm nhng g c th hnh bnh thng (trong dng thc hoc ngun hoc nh pmh) vi cc thnh pmh chnh (b bin dch, ht nhn v.v.) ca h iu hnh ni tp tin chy c hot ng, tr khi thnh pmh km theo cn thit chy tp tin.</para>

Nu vic pht hnh m chy c hay m i tng c lm bng cch trao truy cp sao chp t mt ni xe nh, th vic trao cc truy cp sao chp tng ng n m ngun t cng ni c thnh l s th hnh m ngun, mc d ngi khc khng bt bue phi sao chp m ngun cng vi m i tng. <para>
</sect2>

Khung cho php bn sao chp, sa i, cp giy php ph hay pht hnh Chng trnh, tr vi iu kin c din t dt khot trong Giy php ny. Bt k s c gng no trong vic sao chp, sa i, cp giy php ph hay pht hnh Chng trnh bng cch khe b bi b, v s kt the cc quyn ca bn di Giy php ny. Tuy nhin, ngi khc nhn bn sao hay quyn t bn di Giy php ny s khng b nh hng, min l h tip tc tun theo hon ton. <para>
</sect2>

Khng cho php bn sao chp, sa i hay pht hnh Chng trnh hay sn pmh bt ngun t n. Cc hnh ng ny b php lut cm u bn khng chp nhn Giy php ny. V vy, bng cch sa i hay pht hnh Chng trnh (hay sn pmh da vo n), bn ng s chp nhn Giy php ny lm nh th, gm mi iu kin sao chp, pht hnh hay sa i Chng trnh hay sn pmh da vo n. <para>
</sect2>

Mi ln bn pht hnh li Chng trnh (hay sn pmh da vo n), ngi nhn c th nhn t ng mt giy php t ngi cp gc, sao chp, pht hnh hay sa i Chng trnh vi iu kin ny. Khng cho php bn hn ch thm cch ngi dng s dng cc quyn c cp trong Giy php ny. Bn cng khng phi chu trch nhim v vic p bue ngi khc tun theo iu kin ca Giy php ny. <para>
</sect2>

Nu, do kt qu ca quyt nh ca to n hay cc co bue vi pmh bng sng ch hay v bt c l do no (khng b gi gi hn trong vn bng sng ch), bn b p bue chp nhn iu kin (hoc v quyt nh ca to n, s tho thun hoc cch khe no) m mu thun iu kin ca Giy php ny, trng hp ny khng min cho bn khng phi tha mn iu kin ca Giy php ny. Nu bn khng th pt hnh bng cch tha mn ng thi cc gia c ca bn di Giy php ny v bt k gia c thch hp khe, th kt qu l khng cho php bn pt hnh Chng trnh bng cch no c. Ly th d, nu mt bng sng ch no khng cho php s pt hnh li Chng trnh mt cch min tin bn quyn pt minh cho mi ngi nhn bn sao t bn mt cch trc tip hay gin tip, th cch duy nth bn c th tha c bng v Giy php ny l hon ton khng pt hnh Chng trnh. <para>
<para>Nu on no trong phn ny c quyt nh l khng hp l hay khng th c p buc trong bt k trng hp ring no, on cn li d nh p
dng c, v ton b phn d nh p dng trong cc trng hp khc.</para>

<para>Khung phi l mc ch ca phn ny xi gie bn vi phn bng sng ch no hay li yu sch quyn ti sn khc, hoc khng tha
nhn s hp l ca li yu sch nh vy; phn ny c mc ch duy nht l bo v thnh trng nguy vn ca h thng phh phn mm t do, m c
c the thi bi cc p dng giy php cng cng. Nhiu ngu ngp ngch qh c mt phn v ngch ca cc phn mm c phh phh qua h thng ,
nh s the thi nn b h thng : ty tc gi / nghi nguy nh nh m h mnh phh phn mm qua h thng khc no, v nghi c cp Giy php
khng th iu khin cch quyt nh.</para>

<para>Phn ny d nh din t r ng hon ton kt qu c hiu ca phn cn li ca Giy php ny.</para>
</sect2>

<sect2 id="sect8" label="8">
<title>Phn 8</title>

<para>Nu s phh phh v/hay cch s dng Chng trnh b hn ch trong mt s quc gia no , hoc bi bng sng ch hoc bi gia din c
bn quyn tc gi, nghi gc quyn gc t Chng trnh di Giy php ny c kh nh ng thm s hn ch phh nh a l ring loi tr nhng quc gia ,
cho php phh phh ch trong hay gia cc quc gia khng b loi tr nh th. Trong trng hp nh vy, Giy php nh hp nh c nh l
n c ghi trong thn ca Giy php ny.</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Phn 9</title>

<para>T ch Phn mm T do c th xut bn phn bn sa i v/hay mi ca Giy php Cng cng GNU. Phin bn mi nh vy s c tinh
thn thng t vi phn bn hin thi, nhng c th khc bit trong chi tit gii quyt vn mi.</para>

<para>Mi phin bn c gn mt s hiu phn bit phin bn . Nu Chng trnh xc nh s phn bn ring ca Giy php ny p dng cho n, v bt k phin bn sau no , bn c ty chn tha iu kin hoc ca phn bn , hoc ca bt k phin bn sau no c xut bn bi T ch Phn mm T
do. Nu Chng trnh khng xc nh s phn bn ring ca Giy php ny, bn c kh nhng chn bt k phin bn no ca Giy php ny c xut bn
bi T ch Phn mm T do.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Phn 10</title>

<para>Nu bn mun hp nh phn no ca Chng trnh vo chng trnh t do khc c iu kin phh nhk khc GPL, hy xin php tc gi. i
vi phn mm c bn quyn tc gi ca T chc Phn mm T do, hy vit th cho T chc Phn mm T do : thng thong chng ti cho php
ngoi l trong trng hp ny. Quyt nh ca chng ti s c chng dh bi hai mc ch l s bo tu trng thi t do ca mi iu bt ngun t phn mm t
do ca chng ti, v s y nhnh s chia s v s dng li phn mm mt cch chung.</para>
</sect2>

<sect2 id="sect11" label="11"/>
<title>KHNG BO HNH</title>
<br/>
<br/>V CHNG TRNH C CP PHP MIN PH, KHNG C BO HNH I VI CHNG TRNH NY, VI IU KIN C PHP
LUT CHO PHP. TR KHI XC NH KHC BNG TI LIU GIY T, CC NGI GI BN QUYN TC GI V/HAY NGI KHC CUNG CP CHNG TRNH NY NH TH, KHNG C BO HNH G C, KHNG PHT BIU N, CNG KHNG NG N, GM, NHNG KHNG B HN CH BI, S BO M NG TNH TRNG C TH BN C V S THCH HP VI MT MC CH DT KHOT. MI RI RO V CHT LNG, CHNH XC V HIU SUT CA CHNG TRNH NY BN S T CHU. NU CHNG TRNH NY GY RA H HING, BN GNHV VC HON TON TRCH NGHIM TR TIN DCH V GIP HAY SA CHA.

<sect2 id="sect12" label="12">
<title>Phn 12</title>
<para>KHNG C TRNG HP NO (TR KHI PHP LUT YU CU HAY KHI C THA THUN BNG TI LIU GIY T) M BT K NGI GI BN QUYN TC GI NO, HAY BT K NGI KHC NO C TH SA I V/HAY PHT HNH LI CHNG TRNH NH C PHP BN TRN, S C TRCH NHIM V PHP L BI THNG, GM BT K BI THNG KIU TNG QUT, C BIT, NGU NHH NAY DO HU QU DO S DNG HAY S KHNG C KH NNG S DNG CHNG TRNH NY (GM NHNG KHNG PHI B HN TH BI S MT D LIU HAY D LIU B LM CHO KH NG CHNH XC HAY CC MT MT CA BN HAY NGI KHC HAY S KHNG HOT NG C CHNG TRNH NY VI CHNG TRNH KHC), THM CH NU BN HAY NGI KHC C BO BIT C KH NNG THIT HI NH VY.</para>
</sect2>
</sect1>
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You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

1. The modified work must itself be a software library.
2. You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.
</para>
</listitem>
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<para>
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
</para>
</listitem>
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<para>
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
</para>

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

<para>
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
</para>

<para>
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
</para>
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

</sect2>

<sect2 id="sect5" label="5">
<title> 5</title>

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

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

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

<para>
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
As an exception to the Sections above, you may also combine or link a *work that uses the Library* with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections <link linkend="sect1">1</link> and <link linkend="sect2">2</link> above); and, if the work is an executable linked with the Library, with the complete machine-readable *work that uses the Library*, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application

Library will still fall under <link linkend="sect6">Section 6</link>.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of <link linkend="sect6">Section 6</link>. Any executables containing that work also fall under <link linkend="sect6">Section 6</link>, whether or not they are linked directly with the Library itself.
Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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</para>
</sect2>

<sect2 id="sect9" label="9">
<title> 9</title>

</para>
</sect2>

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</para>
</sect2>

<sect2 id="sect10" label="10">
<title> 10</title>

</para>
</sect2>

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</para>
</sect2>

<sect2 id="sect11" label="11">
<title> 11</title>

</para>
</sect2>

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- The modified work must itself be a software library.
- You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

- Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

<sect2 id="sect7" label="7">
<title>7</title>

<para>.</para>

<sect2 id="sect8" label="8">
<title>8</title>

<para>, . 3 .</para>

<sect2 id="sect9" label="9">
<title>9</title>

<para>. 2 . ( 2 ) .</para>
<para>Tmn lisenssisopimuksen kirjaimeallinen kopioiminen ja levittminen on sallittu, mutta muuttaminen on kielletty.
Tm on LGPL-lisenssin epivirallinen knns suomeksi. Tt knnst ei ole julkaissut Free Software Foundation eik se mit oikeudellisesti sitovasti LGPL-lisenssi kyttvien ohjelmien levysehtoja vain alkuperinen englanninkielinen LGPL-lisenssin teksti on oikeudellisesti sitova. Toivomme kuitenkin, ett tm knns auttaa suomenkielisi ymmrtmn LGPL-lisenssi paremmin.</para>

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<releaseinfo>Versio 2.1, helmikuu 1999</releaseinfo>

<abstract role="description"><para>Yleens tietokoneohjelmien lisenssisopimukset on suunniteltu siten, ett ne estvt ohjelmien vapaan jakamisen ja muuttamisen. Sen sijaan GPL-lisenssit on suunniteltu takaamaan kyttin vapaus jakaa ja muuttaa ohjelmaa lisenssi varmistaa, ett ohjelma on vapaan kaikille kyttjille.</para></abstract>

</articleinfo>

<sect1 id="preamble" label="none">
<title>Johdanto</title>

<para>Yleens tietokoneohjelmien lisenssisopimukset on suunniteltu siten, ett ne estvt ohjelmien vapaan jakamisen ja muuttamisen. Sen sijaan GPL-lisenssit on suunniteltu takaamaan kyttin vapaus jakaa ja muuttaa ohjelmaa lisenssi varmistaa, ett ohjelma on vapaan kaikille kyttjille.</para>

<para>Yleens tietokoneohjelmien lisenssisopimukset on suunniteltu siten, ett ne estvt ohjelmien vapaan jakamisen ja muuttamisen. Sen sijaan GPL-lisenssit on suunniteltu takaamaan kyttin vapaus jakaa ja muuttaa ohjelmaa lisenssi varmistaa, ett ohjelma on vapaan kaikille kyttjille.</para>

<para>Kun tss Lisenssiss puhutaan vapaasta ohjelmasta, silloin ei tarkoiteta hintaa. GPL-lisenssit on nimittin suunniteltu siten, ett kyttjille taataan vapaus levitt kopioita vapaista ohjelmista (ja pyyt halutessaan maksu tst palvelusta). GPL-lisenssi takaavat suojaa kyttjä vapaasta ohjelmasta ja muuttaa ohjelmaa kytt osia siit omista ohjelmissaan, ja ett kaikkien niden toimien tiedetn olevan sallittuja.</para>

<para>This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.</para>

</sect1>

<sect1 id="preamble" label="none">
<title>Johdanto</title>

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<para>Jotta kyttin oikeudet turvattaisiin, lisenssill asetetaan rajoituksia, jotka estvt ket tahansa kielitnst nit oikeuksia tai vaatimista niiden luovuttamista. Nm rajoituksset merkitsevtt tiettyj velvoitteita jokaiselle kyttjille, joka levitt kirjastokopioita tai muuttaa kirjastoa.</para>

<para>For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.
</para>

<para>We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
permission to copy, distribute and/or modify the library.
</para>

<para>Edelleen, jokaisen tekijn ja Free Software Foundationin suojaamiseksi on varmistettava, ett jokainen
ymmnt, ett vapaalla kirjastolla ei ole takuuta. Jos joku muutaa kirjastoa ja levitt sen edelleen, kirjaston
vastaanottajien on tiedettv, ett heill ei ole alkuperist kirjastoa. Joten mik tahansa ongelma, jonka muut ovat
aikaansaaneet, ei vaikuta alkuperisen tekijn maineeseen.</para>

<para>Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot
effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.
</para>

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

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Teoksen "lahdekoodi" tarkoittaa sen suositeltavaa muotoa muutosten tekemist varten. Kirjaston tydellinen lahdekoodi tarkoittaa kaikkea lahdekoodia kaikkiin teoksen sisltmiin moduleihin ja lisksi kaikkiin sen mukana seuraaviin kytliittyntiedostoihin sek skripteihin, joilla hallitaan ajettavan teoksen asennusta ja kntmist.

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Lisenssin saajalla on oikeus kopioida ja levitt sanatarkkoja kopioita Kirjaston lahdekoodista sellaisena kuin se on saatu, mill tahansa laitteella. Ehtona on, ett asianmukaisesti jokaisesta kopioista ilmenee kenell on siihen tekijnoikeus ja ett Kirjastoon ei ole takuuta; edelleen, kaikki viitaukset thn Lisenssiin ja ilmoitukseen takuun puuttumisesta on pidettv koskemattoman; ja viel, jokaiselle Kirjaston vastaanottajalle on annettava tm Lisenssi kirjaston mukana.
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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- You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

However, linking a work that uses the Library with the Library creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a <quote>work that uses the library</quote>. The executable is therefore covered by this License. <link linkend="sect6">Section 6</link> states terms for distribution of such executables.

</para>

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

</para>

<para>
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under <link linkend="sect6">Section 6</link>.)

</para>

<para>
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of <link linkend="sect6">Section 6</link>. Any executables containing that work also fall under <link linkend="sect6">Section 6</link>, whether or not they are linked directly with the Library itself.

</para>

</sect2>

<sect2 id="sect6" label="6">
<title>Kohta 6</title>

<para>
As an exception to the Sections above, you may also combine or link a <quote>work that uses the Library</quote> with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

</para>

<para>
You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

<orderedlist numeration="loweralpha">
  <listitem>
    <para id="sect6a">
      Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections <link linkend="sect1">1</link> and <link linkend="sect2">2</link> above); and, if the work is an executable linked with the Library, with the complete machine-readable <quote>work that uses the Library</quote>, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
    </para>
  </listitem>
  <listitem>
    <para>
      Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
    </para>
  </listitem>
  <listitem>
    <para>
      Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link>, above, for a charge no more than the cost of performing this distribution.
    </para>
  </listitem>
  <listitem>
    <para>
      If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above
specified materials from the same place.
</para>
</listitem>
</listitem>
</para>
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
</para>
</listitem>
</orderedlist>
</para>

For an executable, the required form of the <quote>work that uses the Library</quote> must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
</para>

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
</para>

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
</para>

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
</para>
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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---
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Jos patentit tai tekijnoikeudella suojatut kyttliittymt rajoittavat Kirjaston levittmist tai kyt joissakin valtioissa, Kirjastosta alkuperien tekij, joka lisensoi ohjelmaansa tll Lisensssill, voi asettaa nimenomaisia maantieteellisi levitysrajoituksia, jolloin levittminen on sallittu joko mukaan- tai poisluvun mm valtiot. Tllises tapauksessa niin rajoitukset otetaan huomioon kuin ne olisi kirjoitettu tnn Lisenssin sekaan.

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VORWORT


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</listitem>

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</listitem>

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</listitem>

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</listitem>

<listitem>
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Les termes exacts et les conditions de copie, distribution et modification sont les suivants.

CONDITIONS DE COPIE, DISTRIBUTION ET MODIFICATION

La presente Licence s'applique tout programme ou tout autre ouvrage contenant un avis, appos par le titulaire des droits d'auteur, stipulant qu'il peut tre distrib au titre des conditions de la prsente Licence Publique Gnrale. Ci-aprs, le Programme dsigne l'un quelconque de ces programmes ou ouvrages, et un ouvrage fond sur le Programme dsigne soit le Programme, soit un ouvrage qui en drive au titre des lois sur le droit d'auteur: en d'autres termes, un ouvrage contenant le Programme ou une partie de ce dernier, soit l'identique, soit avec des modifications et/ou traduit dans un autre langage. (Ci-aprs, le terme modification implique, sans s'y rduire, le terme traduction) Chaque concessionnaire sera dsign par vous.

Les activits autres que la copie, la distribution et la modification ne sont pas couvertes par la prsente Licence; elles sont hors de son champ d'application. L'opration consistant excuter le Programme n'est soumise aucune limitation et les sorties du programme ne sont couvertes que si leur contenu constitue un ouvrage fond sur le Programme (indpendamment du fait qu'il ait t ralis par l'excution du Programme). La validit de ce qui prcde dpend de ce que fait le Programme.

Vous pouvez copier et distribuer des copies l'identique du code source du Programme tel que vous l'avez
Vous pouvez faire payer l'acte physique de transmission d'une copie, et vous pouvez, votre discrétion, proposer une garantie contre rémunération.

Vous pouvez modifier votre copie ou des copies du Programme ou n'importe quelle partie de celui-ci, crant ainsi un ouvrage fond sur le Programme, et copier et distribuer de telles modifications ou ouvrage selon les termes de l'Article 1 ci-dessus, condition de vous conserver galement chacune des obligations suivantes: 

- Vous devez munir les fichiers modifiés d'avis bien visibles stipulant que vous avez modifié ces fichiers, ainsi que la date de chaque modification.
- Vous devez prendre les dispositions nécessaires pour que tout ouvrage que vous distribuez ou publiez, et qui, en totalité ou en partie, contient ou est fond sur le Programme - ou une partie quelconque de ce dernier - soit considéré comme un tout, titre gratuit, n'importe quel tiers, au titre des conditions de la présente Licence.
- Si le programme modifié lit habituellement des instructions de façon interactive lorsqu'on l'exécute, vous devez, quand il commence son exécution pour ladite utilisation interactive de la manière la plus usuelle, faire en sorte qu'il imprime ou affiche une annonce comprenant un avis de droit d'auteur ad hoc, et un avis stipulant qu'il n'y a pas de garantie (ou bien indiquant que c'est vous qui fournissez la garantie), et que les utilisateurs puissent redistribuer le programme en respectant les prises obligations, et expliquant l'utilisateur comment voir une copie de la présente Licence.

Ces obligations s'appliquent l'ouvrage modifié pris comme un tout. Si des éléments identifiables de cet ouvrage ne sont pas fondés sur le Programme et peuvent raisonnablement être considérés comme des ouvrages indépendants distincts en eux-mêmes, alors la présente Licence et ses conditions ne s'appliquent pas ces éléments lorsque vous les distribuez en tant qu'ouvrages distincts. Mais lorsque vous distribuez ces mêmes éléments comme partie d'un tout, lequel constitue un ouvrage fond sur le Programme, la distribution de ce tout doit être soumise aux conditions de la présente Licence, et les autorisations qu'elle octroie aux autres concessionnaires s'étendent à l'ensemble de l'ouvrage et par conséquent chaque et toute partie indifféremment de qui l'a créée.

Par conséquent, l'objet du présent article n'est pas de revendiquer des droits ou de contester vos droits sur un ouvrage entièrement écrit par vous; son objet est plutôt d'exercer le droit de contrôler la distribution d'ouvrages dérivés ou
d'ouvrages collectifs fonds sur le Programme.</para>

<para>De plus, la simple proximit du Programme avec un autre ouvrage qui n'est pas fond sur le Programme (ou un ouvrage fond sur le Programme) sur une partition d'un espace de stockage ou un support de distribution ne place pas cet autre ouvrage dans le champ d'application de la presente Licence.</para>

</sect2>

<sect2 id="sect3" label="3">
<title>Article 3</title>

<para>Vous pouvez copier et distribuer le Programme (ou un ouvrage fond sur lui, selon l'<link linkend="sect2">Article 2</link>) sous forme de code objet ou d'executable, selon les termes des <link linkend="sect1">Articles 1</link> et <link linkend="sect2">2</link> ci-dessus, condition que vous accomplissiez l'un des points suivants: <orderedlist numeration="loweralpha">
  <listitem>
       <para>L'accompagner de l'integralit du code source correspondant, sous une forme lisible par un ordinateur, lequel doit tre distribu au titre des termes des <link linkend="sect1">Articles 1</link> et <link linkend="sect2">2</link> ci-dessus, sur un support habituellement utilis pour l'change de logiciels; ou,</para>
  </listitem>
  <listitem>
       <para>L'accompagner d'une proposition crite, valable pendant au moins trois ans, de fournir tout tiers, un tarif qui ne soit pas suprieur ce que vous cote l'acte physique de raliser une distribution source, une copie integrale du code source correspondant sous une forme lisible par un ordinateur, qui sera distribu au titre des termes des Articles 1 et 2 ci-dessus, sur un support habituellement utilis pour l'change de logiciels; ou,</para>
  </listitem>
  <listitem>
       <para>L'accompagner des informations reues par vous concernant la proposition de distribution du code source correspondant. (Cette solution n'est autorise que dans le cas d'une distribution non-commerciale et seulement si vous avez reu le programme sous forme de code objet ou d'executable accompag d'une telle proposition - en conformit avec le sous-Article b ci-dessus.)(/para>
  </listitem>
</orderedlist></para>

<para>Le code source d'un ouvrage disigne la forme favorite pour travailler des modifications de cet ouvrage. Pour un ouvrage executable, le code source integral disigne la totalit du code source de la totalit des modules qu'il contient, ainsi que les ventuels fichiers de dfinition des interfaces qui y sont associ, ainsi que les scripts utilis pour contrler la compilation et l'installation de l'executable. Cependant, par exception speciale, le code source distribu n'est pas cens inclure quoi que ce soit de normalement distribu (que ce soit sous forme source ou binaire) avec les composants principaux (compilateur, noyau, et autre) du systme d'exploitation sur lequel l'executable tourne, moins que ce composant lui-mme n'accompagne l'executable.</para>

<para>Si distribuer un executable ou un code objet consiste offrir un accs permettant leur copie depuis un endroit particulier, alors l'offre d'un accs equivalent pour copier le code source depuis le mme endroit compte comme une distribution du code source - mme si les tiers ne sont pas contraints de copier le source en mme temps que le code objet.</para>

</sect2>

<sect2 id="sect4" label="4"/>
<title>Article 4</title>

<para>Vous ne pouvez copier, modifier, concéder en sous-licence, ou distribuer le Programme, sauf tel qu'expressément prévu par la présente Licence. Toute tentative de copier, modifier, concéder en sous-licence, ou distribuer le Programme d'une autre manière est réputée non valable, et met immédiatement fin vos droits au titre de la présente Licence. Toutefois, les tiers ayant reçu de vous des copies, ou des droits, au titre de la présente Licence ne verront pas leurs autorisations réunies aussi longtemps que ledits tiers se conforment pleinement elle.</para>
</sect2>

<sect2 id="sect5" label="5">
<title>Article 5</title>

<para>Vous n'êtes pas obligé d'accepter la présente Licence tant que vous ne l'avez pas signé. Cependant, rien d'autre ne vous accorde l'autorisation de modifier ou distribuer le Programme ou les ouvrages fonds sur lui. Ces actions sont interdites par la loi si vous n'acceptez pas la présente Licence. En conséquence, en modifiant ou distribuant le Programme (ou un ouvrage quelconque fond sur le Programme), vous signifiez votre acceptation de la présente Licence en le faisant, et de toutes ses conditions concernant la copie, la distribution ou la modification du Programme ou d'ouvrages fonds sur lui.</para>
</sect2>

<sect2 id="sect6" label="6">
<title>Article 6</title>

<para>Chaque fois que vous redistribuez le Programme (ou n'importe quel ouvrage fond sur le Programme), une licence est automatiquement concédée au destinataire par le concédant originel de la licence, l'autorisant copier, distribuer ou modifier le Programme, sous réserve des présentes conditions. Vous ne pouvez imposer une quelconque limitation supplémentaire l'exercice des droits octroyés au titre des présentes par le destinataire. Vous n'avez pas la responsabilité d'imposer le respect de la présente Licence des tiers.</para>
</sect2>

<sect2 id="sect7" label="7">
<title>Article 7</title>

<para>Si, conséquemment une décision de justice ou l'allégation d'une transgression de brevet ou pour toute autre raison (non limite un problème de brevet), des obligations vous sont imposées (que ce soit par jugement, conciliation ou autre) qui contredisent les conditions de la présente Licence, elles ne vous excusent pas des conditions de la présente Licence. Si vous ne pouvez distribuer de manière satisfaire simultanément vos obligations au titre de la présente Licence et toute autre obligation pertinente, alors il en découle que vous ne pouvez pas du tout distribuer le Programme. Par exemple, si une licence de brevet ne permettait pas une redistribution sans redevance du Programme par tous ceux qui reçoivent une copie directement ou indirectement par votre intermédiaire, alors la seule façon pour vous de satisfaire la fois la licence du brevet et la présente Licence serait de vous abstenir totalement de toute distribution du Programme.</para>

<para>Si une partie quelconque de cet article est tenue pour nulle ou inopposable dans une circonstance particulière quelconque, l'intention est que le reste de l'article s'applique. La totalité de la section s'appliquera dans toutes les autres circonstances.</para>

<para>Cet article n'a pas pour but de vous induire transgresser un quelconque brevet ou d'autres revendications...
Cet article a pour but de rendre totalement limpide ce que l'on pense tre une consquence du reste de la presente Licence.

Si la distribution et/ou l'utilisation du Programme est limite dans certains pays que ce soit par des brevets ou par des interfaces soumises au droit d'auteur, le titulaire originel des droits d'auteur qui decide de couvrir le Programme par la presente Licence peut ajouter une limitation gographique de distribution explicite qui exclue ces pays afin que la distribution soit permise seulement dans ou entre les pays qui ne sont pas ainsi exclus. Dans ce cas, la presente Licence incorpore la limitation comme si elle tait cite dans le corps de la presente Licence.

La Free Software Foundation peut, de temps autre, publier des versions rvises et/ou nouvelles de la Licence Publique Gnrale. De telles nouvelles versions seront similaires la presente version dans l'esprit mais pourront différer dans le dtail pour prendre en compte de nouvelles problmatiques ou inquitudes.

Chaque version possde un numro de version la distinguant. Si le Programme prcise le numro de version de la presente Licence qui s'y applique et une version ulttrieure quelconque, vous avez le choix de suivre les conditions de la presente version ou de toute autre version ulttrieure publie par la Free Software Foundation. Si le Programme ne spcifie aucun numro de version de la presente Licence, vous pouvez choisir une version quelconque publie par la Free Software Foundation quelque moment que ce soit.

Si vous souhaitez incorporer des parties du Programme dans d'autres programmes libres dont les conditions de distribution sont diffrentes, crivez l'auteur pour lui en demander l'autorisation. Pour les logiciels dont la Free Software Foundation est titulaire des droits d'auteur, crivez la Free Software Foundation; nous faisons parfois des exceptions dans ce sens. Notre dcision sera guide par le double objectif de prserver le statut libre de tous les drivs de nos logiciels libres et de promouvoir le partage et la rutilisation des logiciels en gnral.
COMME LA LICENCE DU PROGRAMME EST CONCDE TITRE GRATUIT, AUCUNE GARANTIE NE S'APPLIQUE AU PROGRAMME, DANS LES LIMITES AUTORISEES PAR LA LOI APPLICABLE. SAUF MENTION CONTRAIRE CRITE, LES TITULAIRES DU DROIT D'AUTEUR ET/OU LES AUTRES PARTIES FOURNISSENT LE PROGRAMME QUOTE, SANS AUCUNE GARANTIE DE QUELQUE NATURE QUE CE SOIT, EXPRESSE OU IMPLICITE, Y COMPRIS, MAIS SANS Y TREP LIMIT, LES GARANTIES IMPLICITES DE MARCHANDABILIT ET D'ADQUATION UN OBJECTIF PARTICULIER. VOUS ASSUMEZ LA TOTALIT DES RISQUES LAS LA QUALIT ET AUX PERFORMANCES DU PROGRAMME. SI LE PROGRAMME SE RVLAIT D'ECTUEUX, LE COT DE L'ENTRETIEN, DES RPRATIONS OU DES CORRECTIONS NCESSAIRES VOUS INCOMPENT INTRALEMENT.

EN AUCUN CAS, SAUF LORSQUE LA LOI APPLICABLE OU UNE CONVENTION CRTE L'EXIGE, UN TITULAIRE DE DROIT D'AUTEUR QUEL QU'IL SOIT, OU TOUTE PARTIE QUI POURRAIT MODIFIER ET/OU REDISTRIBUER LE PROGRAMME COMME PERMIS CI-DESSUS, NE POURRAIT TRE TENU POUR RESPONSABLE VOTRE GARD DES DOMMAGES, INCLUANT LES DOMMAGES GNRIQUES, SPIFICIQUES, SECONDAIRES OU CONSUTIFS, RSULTANT DE L'UTILISATION OU DE L'INCAPACIT D'UTILISER LE PROGRAMME Y COMPRIS, MAIS SANS Y TREP LIMIT, LA PERTE DE DONNES, OU LE FAIT QUE DES DONNES SOIENT RENDUES IMPRCS, OU LES PERTES PROUVES PAR VOUS OU PAR DES TIERS, OU LE FAIT QUE LE PROGRAMME CHOE INTROPRER AVEC UN AUTRE PROGRAMME QUEL QU'IL SOIT) MME SI LE DIT TITULAIRE DU DROIT D'AUTEUR OU LE PARTI CONCERN A T AVERTI DE L'VENTUALIT DE TELS DOMMAGES.
Las licencias que cubren la mayor parte del software están diseñadas para quitarle a usted la libertad de compartirlo y modificarlo, las Licencias Públicas Generales de GNU pretenden garantizarle la libertad de compartir y modificar el software libre, para asegurar que el software es libre para todos sus usuarios.
Las licencias que cubren la mayor parte del software están diseñadas para quitarle a usted la libertad de compartirlo y modificarlo, las Licencias Públicas Generales de GNU pretenden garantizarle la libertad de compartir y modificar el software libre, para asegurar que el software es libre para todos sus usuarios.

Cuando hablamos de software libre, estamos refiriéndonos a libertad, no a precio. Nuestras Licencias Públicas Generales están diseñadas para asegurarnos de que tenga la libertad de distribuir copias de software libre (y cobrar por ese servicio si quiere), de que reciba el código fuente o que pueda conseguirlo si lo quiere, de que pueda modificar el software o usar fragmentos de él en programas nuevos libres, y de que sepa que puede hacer todas estas cosas.

Esta licencia, la Licencia Pública General Menor (Lesser General Public Licence), se aplica a algunos paquetes de software diseñados específicamente tipicamente bibliotecas de la Free Software Foundation y de otros autores que deciden usarla. Usted puede usarla también, pero le sugerimos que piense primero cuidadosamente si esta licencia o la General Public Licence ordinaria, es o no la estrategia mejor a usar en un caso particular, basándose en las explicaciones siguientes.

Cuando hablamos de software libre, nos referimos a libertad de uso, no a precio. Nuestras Licencias Públicas Generales están diseñadas para asegurar que usted tiene la libertad de distribuir copias de software libre (y cobrar por este servicio si quiere); que recibe el código fuente o que puede obtenerlo si lo quiere; que puede modificar el software y usar partes de él en nuevos programas libres; y de que ha sido informado de que puede hacer estas cosas.

Para proteger sus derechos necesitamos algunas restricciones que prohíban a cualquiera negarle a usted estos derechos o pedirle que renuncie a ellos. Estas restricciones se traducen en ciertas obligaciones que le afectan si distribuye copias de la biblioteca, o si la modifica.

Por ejemplo, si distribuye copias de la biblioteca, sea gratuitamente, o a cambio de una contraprestación, debe dar a los receptores todos los derechos que tiene. Debe asegurarse de que ellos también reciban, o pueden conseguir, el código fuente. Si enlaza otro código con la biblioteca, debe proporcionar archivos objeto completos a los receptores, para que ellos puedan reenlazarlos con la biblioteca después de hacer cambios a la biblioteca y recompilarla. Y debe mostrarles estas condiciones de forma que conozcan sus derechos.

Protegemos sus derechos con la combinación de dos medidas:

1) Derechos de copia de la Biblioteca (copyright), y
(2) le ofrecemos esta licencia, que le da permiso legal para copiar, distribuir y/o modificar la biblioteca.

<para>Para proteger a cada uno de los distribuidores, queremos dejar muy claro que no existe garantía para la biblioteca libre. Además, si la biblioteca es modificada por alguien y se transmite, los receptores deberán saber que lo que ellos tienen no es la versión original, de forma que la reputación del autor original no se vea afectada por problemas que podrían ser introducidos por otros.</para>

<para>Finalmente, cualquier programa libre está constantemente amenazado por patentes sobre el software. Queremos evitar el peligro de que una compañía no pueda restringir efectivamente a los usuarios de un programa libre obteniendo una licencia restrictiva de un propietario de una patente. Para evitar esto, insistimos en que cualquier licencia de patente obtenida por una versión de la biblioteca deba ser consistente con la completa libertad de uso especificada en esta licencia.</para>

<para>La mayoría del software de GNU, incluyendo algunas bibliotecas, están cubiertos por la Licencia Licencia Pública General ordinaria. Esta licencia, la GNU Licencia Pública General Menor, se aplica a ciertas bibliotecas designadas, y es un poco diferente de la Licencia Pública General. Usamos esta licencia para ciertas bibliotecas con el fin de permitir enlazar esas bibliotecas en programas no libres.</para>

<para>Cuando un programa está enlazado con una biblioteca, ya sea estéticamente o usando una biblioteca compartida, la combinación de los dos es hablando legalmente un trabajo combinado, una derivación de la biblioteca original. La Licencia Pública General entonces permite dicho enlazado sólo si la combinación entera cumple con este criterio de libertad. La Licencia Pública General Menor permite un criterio más relajado para enlazar otro código con la biblioteca.</para>

<para>Llamamos a esta licencia Licencia Pública General <quote>Menor</quote> porque hace Menos para proteger la libertad del usuario que la Licencia Licencia Pública General ordinaria. También proporciona otros desarrolladores de software libre Menos de las ventajas respecto a competir con programas que no sean software libre. Estas desventajas son la razón por la que usamos la licencia Licencia Pública General para muchas bibliotecas. Sin embargo, la licencia Menor proporciona ventajas en ciertas circunstancias especiales.</para>

<para>Por ejemplo, en raras ocasiones puede haber una necesidad especial de fomentar lo más ampliamente posible el uso de una determinada biblioteca, de forma que esta se convierta en un estándar. Para conseguir esto, se debe permitir a los programas no libres el uso de estas bibliotecas. Un caso más frecuente es aquel en el que una biblioteca libre hace el mismo trabajo que el que realizan las bibliotecas no libres más ampliamente usadas. En este caso, hay poco que ganar limitando la biblioteca nicamente al software libre, de manera que usamos la Licencia Pública General Menor.</para>

<para>En otros casos, el permiso para usar una biblioteca determinada en programas no libres posibilita a un mayor número de gente a usar una gran cantidad de software libre. Por ejemplo, el permiso para utilizar la biblioteca GNU C en programas no libres posibilita a mucha más gente a usar al completo el sistema operativo GNU, así como su variante, el sistema operativo GNU/LINUX.</para>

<para>Aunque la Licencia Pública General Menor es menos protectora para las libertades del usuario, asegura que el usuario de un programa que est enlazado con la biblioteca tiene la libertad y los medios para ejecutar ese programa usando una versión modificada de la biblioteca.</para>

<para>Los términos y las condiciones exactas para la copia, distribución y modificación se indican a continuación. Preste especial atención a la diferencia entre un <quote>trabajo basado en la biblioteca</quote> y un <quote>trabajo
que utiliza la biblioteca”. El primero contiene código derivado de la biblioteca, mientras que el último debe estar unido con la biblioteca para ser ejecutado.</para>

</sect1>

<title>Trminos y condiciones para la copia, distribucin y modificacin</title>

<title>Seccin 0</title>

<para>Este Acuerdo de Licencia se aplica a cualquier biblioteca de software u otro programa que contenga una notificaciòn colocada por el poseedor del copyright u otra parte autorizada diciendo que puede distribuirse bajo los trminos de la licencia Licencia Pblica General Menor (tambìn llamada “esta Licencia”). Cada licenciatario ser referido como “Usted”.</para>

<para>Una “biblioteca” significa una coleccin de funciones y/o datos de software, preparados para ser enlazados de una forma cmoda con programas de aplicacin (que usan algunas de estas funciones y datos) para formar ejecutables.</para>

<para>Una “biblioteca” significa una coleccin de funciones y/o datos de software, preparados para ser enlazados de una forma cmoda con programas de aplicacin (que usan algunas de estas funciones y datos) para formar ejecutables.</para>

<para>La “Biblioteca” en lo que sigue, se refiere a cualquier trabajo o biblioteca de software que haya sido distribuido bajo estos trminos. Un “trabajo basado en la Biblioteca” significa que, o la Biblioteca o cualquier trabajo derivado, estn bajo la ley de derechos de autor: es decir, un trabajo que contiene a la Biblioteca o a una parte de ella, ya sea de forma literal o con modificaciones y/o traducida de forma clara a otro idioma (mas abajo se incluye la traduccin sin restriccin en el trmino “modificacin”).</para>

<para>El “cdigo fuente” para un trabajo se refiere a la forma preferida del trabajo para hacer modificaciones en l. Para una Biblioteca, el cdigo fuente completo significa todos los cdigos fuente para todos los mdulos que contenga la biblioteca, ms cualquier fichero de definicin de interfaz asociado, y los scripts asociados para controlar la compilacin y la instalacin de la biblioteca.</para>

<para>Otras actividades que no sean la copia, distribucin y modificacin no se encuentran cubiertas por esta Licencia; se encuentran fuera de su objetivo. La opcin de ejecutar un programa utilizando la Biblioteca no esta restringido, y el resultado de dicho programa esta cubiert por esta Licencia. No se refieren a esta Licencia y a la ausencia de cualquier garant.a; y distribuya una copia de esta Licencia junto con la Biblioteca.</para>

<title>Seccin 1</title>

<para>Puede copiar y distribuir copias literales del cdigo fuente completo de la Biblioteca tal y como la recibe, en cualquier medio, a condicin de que usted publique de forma manifiesta y apropiada, en cada una de las copias, un aviso conveniente de derechos de autor y una renuncia de garant.a; mantenga intactas todas las notificaciones que se refieran a esta Licencia y a la ausencia de cualquier garant.a; y distribuya una copia de esta Licencia junto con la Biblioteca.</para>

<para>Puede cobrar un importe por el acto fsico de traspasar una copia y puede, a opcin suya, ofrecer una proteccin de garant.a a cambio de un importe.</para>
Sección 2

Puede modificar su copia o copias de la Biblioteca o de cualquier parte de ella, formando así un trabajo basado en la Biblioteca, y copiar y distribuir tales modificaciones o trabajo bajo los términos de la Sección 1 de arriba, siempre que usted también cumpla con todas estas condiciones:

1. El trabajo modificado debe ser por sí mismo una biblioteca.
2. Debe hacer que los ficheros modificados lleven avisos llamativos, declarando que usted cambió los ficheros y la fecha de cualquier cambio.
3. Debe hacer que a todo el trabajo le sea concedida una licencia, sin cargo a terceras partes, bajo los términos de esta Licencia.
4. Si una facilidad en la Biblioteca modificada se refiere a una función o a una tabla de datos, que deba ser suministrada por un programa de aplicación que use la facilidad de otra manera que como un argumento pasado cuando la facilidad es invocada, entonces debe hacer un esfuerzo de buena fe para asegurar que, en caso de que una aplicación no suministre tal función o tabla, la facilidad aun funcione y haga que cualquier parte de su finalidad siga siendo significativa.
5. (Por ejemplo, una función en una biblioteca para computar raíces cuadradas tiene un propósito que está bien definido completamente, independientemente de la aplicación. Por tanto, la Subsección 2d exige que cualquier función o tabla suministrada por la aplicación y usada por esa función debe ser opcional: si la aplicación no la suministra, la función raíz cuadrada debe seguir computando raíces cuadradas).
6. Estos requisitos se aplican al trabajo modificado como un todo. Si hay secciones identificables de ese trabajo que no deriven de la Biblioteca, y se pueden considerar razonablemente independientes y trabajos separados, por ellas mismas, entonces esta Licencia y sus términos, no se aplican a aquellas secciones cuando usted los distribuya como trabajos separados. Pero cuando usted distribuya las mismas secciones como parte de un todo, que sea un trabajo basado en la Biblioteca, la distribución del todo debe estar bajo los términos de esta Licencia cuyos permisos para otros licenciatarios se extienden a todo el conjunto, y así para todas y cada una de las partes, sin tener en cuenta quien las escribió.

Así pues, la intención de esta sección no es exigir derechos o discutir los derechos de un trabajo escrito completamente por usted; más bien, la intención es ejercer el derecho a controlar la distribución de trabajos derivados o colectivos basados en la Biblioteca.

Además, la mera agregación de otro trabajo no basado en la Biblioteca con la Biblioteca (o con un trabajo basado en la Biblioteca) en un volumen de almacenaje o en un medio de distribución, no pone al otro trabajo bajo los objetivos de esta Licencia.
Sección 3

Usted puede optar por aplicar a una determinada copia de la Biblioteca, los términos de la Licencia Pública General GNU ordinaria en vez de los de esta Licencia. Para hacer esto, debe alterar todas las notificaciones que se refieren a esta Licencia, para que se refieran a la Licencia Pública General GNU ordinaria, versión 2, en vez de a esta Licencia. (Si ha aparecido una versión más reciente que la versión 2 de la Licencia Pública General GNU ordinaria, entonces, si quiere, puede especificar esa nueva versión). No haga ningún otro cambio en estas notificaciones.

Una vez que se haya hecho este cambio en una copia dada, es irreversible para esa copia, de modo que la Licencia Pública General GNU ordinaria se aplica a todas las copias siguientes y a trabajos derivados realizados a partir de esa copia.

Esta opción es útil cuando usted quiere copiar parte del código de la Biblioteca dentro de un programa que no es una biblioteca.

Sección 4

Puede copiar y distribuir la Biblioteca (o una porción o derivado de ella, bajo la Sección 2) en código objeto o forma ejecutable bajo los términos de las Secciones 1 y 2 arriba indicadas, siempre que la acompañe con el correspondiente código fuente legible (a máquina) completo, que debe ser distribuido bajo los términos de las Secciones 1 y 2 arriba, en un medio usado habitualmente para el intercambio de software.

Si la distribución del código objeto se hace ofreciendo el acceso a su copia desde un lugar designado, entonces ofreciendo un acceso equivalente a la copia del código fuente desde el mismo sitio se satisfacen los requisitos para la distribución del código fuente, aunque las terceras partes no estén obligadas a copiar el código fuente junto con el código objeto.

Sección 5

Un programa que no contiene derivado de ninguna porción de la Biblioteca, pero está diseñado para trabajar con la Biblioteca al ser compilado o enlazado con ella, se denomina un "trabajo que usa la Biblioteca". Dicho trabajo, por separado, no es un trabajo derivado de la Biblioteca, y por tanto cae fuera del ámbito de esta Licencia.

Sin embargo, enlazar un "trabajo que usa la Biblioteca" con la Biblioteca, crea un ejecutable que es un derivado de la Biblioteca (porque contiene porciones de la Biblioteca). En vez de un "trabajo que usa la Biblioteca". El ejecutable está por tanto cubierto por esta Licencia. La Sección 6 expone los términos para la distribución de tales ejecutables.
Cuando un trabajo que usa la Biblioteca utiliza material de un fichero cabecera que forma parte de la Biblioteca, el código objeto del trabajo puede ser un trabajo derivado de la Biblioteca aunque el código fuente no lo sea. Que esto sea cierto es especialmente significativo si el trabajo puede ser enlazado sin la Biblioteca, o si el trabajo es por sí mismo una biblioteca. El límite para que esto sea cierto no está definido con precisión por la ley.

Si dicho fichero objeto utiliza solo parámetros numéricos, esquema de estructura de datos, y pequeñas macros y pequeñas funciones en línea (diez líneas o menos de longitud), entonces el uso del fichero objeto no está restringido, sin tener en cuenta si esto es legalmente un trabajo derivado. (Ejecutables que contengan este código objeto y porciones de la Biblioteca están aún bajo la Sección 6.)

En caso contrario, si el trabajo es un derivado de la Biblioteca, usted puede distribuir el código objeto del trabajo bajo los términos de la Sección 6. Cualquier ejecutable que contenga ese trabajo también cae bajo la Sección 6, est o no enlazado con la Biblioteca.

Como excepción a las secciones anteriores, puede también combinar o enlazar un trabajo que usa la Biblioteca con la Biblioteca para producir un trabajo que contenga porciones de la Biblioteca, y distribuir ese trabajo bajo los términos de su elección, siempre que los términos permitan la modificación del trabajo por el uso propio del cliente y la ingeniería inversa para la depuración de tales modificaciones.

Debe incluir con cada copia del trabajo una notificación de que la Biblioteca se utiliza en él, y de que la Biblioteca y su uso estén cubiertos por esta Licencia. Debe suministrar una copia de esta Licencia. Si el trabajo, durante su ejecución, muestra notas de derechos de autor, usted debe incluir entre ellas las notas de derechos de autor de la Biblioteca, así como una referencia que dirija al usuario a la copia de esta Licencia. Además, usted debe hacer una de estas cosas:

1. Acompañar el trabajo con el correspondiente código fuente legible (a máquina) completo de la Biblioteca, incluyendo cualquier cambio que fuera utilizado en el trabajo (el cual debe ser distribuido bajo las Secciones 1 y 2 de arriba); y, si el trabajo es un ejecutable enlazado con la Biblioteca, con el completo, legible (a máquina) código objeto y/o código fuente, de forma que el usuario pueda modificar la Biblioteca y reenlazar entonces para producir un ejecutable modificado que contenga la Biblioteca modificada. (Se entiende que el usuario que cambia los contenidos de los archivos de definiciones en la Biblioteca no necesariamente ser capaz de recompilar la aplicación para usar las definiciones modificadas).

2. Usar un mecanismo de biblioteca compartida adecuado para enlazar con la Biblioteca. Un mecanismo adecuado es uno que (1) utiliza en tiempo de ejecución una copia de la biblioteca que está presente en el ordenador del usuario, en vez de copiar funciones de biblioteca dentro del ejecutable, y (2) funcionar correctamente con una versión modificada de la biblioteca, si el usuario instala una, mientras que la versión modificada sea de interfaz compatible con la versión con la que se hizo el trabajo.

3. Acompañar el trabajo con una oferta escrita, válida por tres años al menos, para proporcionar a dicho usuario
los materiales especificados en la <link linkend="sect6a">Subsección 6a</link> de arriba, por un precio no superior al coste de realizar esta distribución.</para>

<li><para>Si la distribución del trabajo se hace ofreciendo el acceso a la copia desde un lugar determinado, ofrecer un acceso equivalente para la copia de los materiales especificados anteriormente desde el mismo lugar.</para>
</li>
<li><para>Verificar que el usuario ha recibido ya una copia de estos materiales o que usted ya le ha enviado una copia a este usuario.</para>
</li>

<p>Para un ejecutable, la forma requerida del <quote>trabajo que usa la Biblioteca</quote> debe incluir todos los programas de datos y utilidades necesitados para reproducir el ejecutable desde 1. Sin embargo, como una excepción especial, los materiales a distribuir no necesitan incluir nada de lo que es distribuido normalmente (ya sea en forma binaria o fuente) con los componentes principales (compilador, núcleo, y demás) del sistema operativo en el cual funciona el ejecutable, a menos que el componente por 1 mismo acompañe al ejecutable.</p>

<p>Puede suceder que este requisito contradiga las restricciones de la licencia de otras bibliotecas propietarias que no acompañan normalmente al sistema operativo. Dicha contradicción significa que no puede usar estas y la Biblioteca juntas en un ejecutable que usted distribuya.</p>

<p>Puede colocar facilidades de biblioteca, que son un trabajo basado en la Biblioteca, juntas en una sola biblioteca junto con otras facilidades de biblioteca no cubiertas por esta Licencia, y distribuir dicha biblioteca combinada, con tal que la distribución separada del trabajo basado en la Biblioteca y de las otras facilidades de biblioteca est, por lo demás, permitida, y con tal que usted haga estas dos cosas:</p>

<ol numeration="loweralpha">
<li><para>Acompañar la biblioteca combinada con una copia del mismo trabajo basado en la Biblioteca, no combinado con cualquier otra facilidad de biblioteca. Esto debe ser distribuido bajo los términos de las Secciones superiores.</para>
</li>
<li><para>Incluir una notificación destacada con la biblioteca combinada del hecho de que parte de ella es un trabajo basado en la Biblioteca, y explicando donde encontrar las formas sin combinar acompañantes del mismo trabajo.</para>
</li>
</ol>
Sección 8

Usted no puede copiar, modificar, sublicenciar o distribuir la Biblioteca salvo por lo permitido expresamente por esta Licencia. Cualquier otro intento de copia, modificación, sublicenciamiento o distribución de la Biblioteca es nulo, y dar por terminados automáticamente sus derechos bajo esa Licencia. Sin embargo, los terceros que hayan recibido copias, o derechos, de usted bajo esta Licencia no vern terminadas sus licencias, siempre que permanezcan en total conformidad con ella.

Sección 9

No se le exige que acepte esta Licencia, puesto que no la ha firmado. Sin embargo, ninguna otra cosa le concede a usted el permiso para modificar o distribuir la Biblioteca o sus trabajos derivados. Estas acciones están prohibidas por ley si usted no acepta esta Licencia. Por tanto, al modificar o distribuir la Biblioteca (o cualquier trabajo basado en la Biblioteca), usted indica su aceptación de esta Licencia para hacerlo, y todos sus términos y condiciones para copiar, distribuir o modificar la Biblioteca o los trabajos basados en ella.

Sección 10

Cada vez que usted distribuye la Biblioteca (o cualquier trabajo basado en la Biblioteca), el receptor recibe automáticamente una licencia del titular original de la Licencia para copiar, distribuir, enlazar con o modificar la Biblioteca sujeto a estos términos y condiciones. Usted no debe imponer ninguna restricción posterior sobre el ejercicio de los receptores de los derechos otorgados aquí mencionados. Usted no es responsable de imponer conformidad con esta Licencia por terceras partes.

Sección 11

Si, como consecuencia de un juicio o infracción de patente o por cualquier otra razón (no limitada a asuntos de patente) a usted se le imponen condiciones (sea orden judicial, acuerdo u otras) que contradigan las condiciones de esta Licencia, eso no le dispensa de las condiciones de esta Licencia. Si usted no puede distribuirla de tal forma que satisfaga simultáneamente sus obligaciones con respecto a esta licencia y cualquier otras obligaciones pertinentes, entonces como consecuencia, no debe en absoluto distribuir la Biblioteca. Por ejemplo, si una licencia de patente no permitiera la redistribución libre de derechos de autor de la Biblioteca a todo aquellos que reciben copias directamente o indirectamente a través de usted, entonces la nica forma en la que podría satisfacer tanto esto como esta Licencia sería abstenerse completamente de la distribución de la Biblioteca.

Si cualquier parte de esta sección se considera invalida o inaplicable bajo cualquier circunstancia particular, se intentar aplicar el balance de la sección, y en otras circunstancias se intentar aplicar la sección como un todo.

No es el propósito de esta sección el inducirle a usted a infringir cualquier demanda de derechos de patente u otros derechos de propiedad o el impugnar la validez de tales demandas; esta sección tiene el nico propósito de proteger la integridad del sistema de distribución de software libre, lo cual se lleva a cabo mediante prácticas de
licencia pública. Mucha gente ha hecho generosas contribuciones al amplio rango de software distribuido a través de este sistema, confiando en la firme aplicación de este sistema; es decisión de autor/donante decidir si el o ella quiere distribuir software a través de cualquier otro sistema y una licencia no puede imponer esa elección.

<para>Esta sección tiene el propósito de esclarecer a fondo lo que se cree ser una consecuencia del resto de esta licencia.</para>

<sect2 id="sect12" label="12">
<title>Sección 12</title>

<para>Si la distribución y/o uso de la Biblioteca está restringida en ciertos países mediante patentes o interfaces con derechos de autor, el propietario de los derechos de autor originales, el cual puso la Biblioteca bajo esta Licencia, puede añadir una limitación a la distribución geográfica explícita excluyendo estos países, de forma que esta distribución se permita solamente en o entre países no excluidos. En tal caso, esta Licencia incorpora la limitación como si estuviera escrita en el cuerpo de esta Licencia.</para>

<sect2 id="sect13" label="13">
<title>Sección 13</title>

<para>La Free Software Foundation puede publicar versiones nuevas y revisadas de la Licencia Licencia Pública General Menor de vez en cuando. Dichas versiones nuevas serán similares en espíritu a la presente versión, pero pueden diferir en detalles para solucionar nuevos problemas o preocupaciones.</para>

<para>Cada versión tiene un número de versión que la distingue. Si la Biblioteca especifica que se aplica un número de versión en particular de esta Licencia y cualquier versión posterior, usted tiene la opción de seguir los términos y condiciones de la versión especificada o cualquiera posterior que haya sido publicada por la Free Software Foundation. Si la Biblioteca no especifica un número de versión de esta Licencia, puede escoger cualquier versión que haya sido publicada por la Free Software Foundation.</para>

<sect2 id="sect14" label="14">
<title>Sección 14</title>

<para>Si quiere incorporar partes de la Biblioteca en otros programas libres cuyas condiciones de distribución son incompatibles con estos, escriba al autor para pedirle permiso. Para el software cuyos derechos de autor pertenecen a la Free Software Foundation, escriba a la Free Software Foundation; nosotros hacemos a veces excepciones a esto. Nuestra decisión se guiará generalmente por los dos objetivos de preservar el estatus libre de todo lo derivado de nuestro software libre y de promover la compartición y reutilización de software.</para>

AUSENCIA DE GARANTÍA

DEBIDO A QUE LA BIBLIOTECA ESTÁ LICENCIADA LIBRE DE CARGO, NO HAY GARANTÍA PARA LA BIBLIOTECA EN LA EXTENSIÓN PERMITIDA POR LA LEY APLICABLE. EXCEPTO CUANDO SE
BAJO NINGÚN CONCEPTO, A MENOS QUE SEA REQUERIDO POR LA LEY APLICABLE O DE ACUERDO A UN ESCRITO, CUALQUIER POSEEDOR DE DERECHOS DE AUTOR O CUALQUIER OTRA PARTE QUE PUEDA MODIFICAR Y/O REDISTRIBUIR LA BIBLIOTECA COMO SE PERMITE ARRIBA, SER RESPONSABLE CON USTED POR DAOS, INCLUYENDO CUALQUIER DAO GENERAL, ESPECIAL, ACCIDENTAL O CONSECUENTE ORIGINADO POR EL USO O INCAPACIDAD DE USAR LA BIBLIOTECA (INCLUYENDO PERO NO LIMITANDO, A LAS PRDIDAS DE DATOS O A LA PRODUCCIÓN DE DATOS IncorrectOS, O PRDIDAS SUFRIDAS POR USTED O TERCERAS PARTES O UN FalLO DE LA BIBLIOTECA PARA FUNCIONAR CON CUALQUIER OTRO SOFTWARE) INCLUSO SI TAL TITULAR U OTRA PARTE HA SIDO NOTIFICADA DE LA POSIBILIDAD DE TALES DAOS.
Var och en ger kopiera och distribuera exakta kopior av detta licensavtal, men att ndra det r inte tilltet.</para>

<abstract role="description">
De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public License r tvrtom skapad fr att garantera din frihet att dela med dig av och frndra fri programvara - fr att frskra att programvaran r fri fr alla dess anvndare.</abstract>

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<sect1 id="preamble" label="none">
<title>BAKGRUND</title>

<p>De flesta programvarulicenser r skapade fr att ta bort din frihet att ndra och dela med dig av programvaran. GNU General Public Licenses (nedan kallade GPL) r i stilet avsedda att garantera din frihet att dela med dig av och
frndra fri programvara att frskra att programvaran r fri fr alla dess anvndare.

<para>Nr vi talar om fri programvara syftar vi p frihet att använda den, inte pris. Vra GPL r skapade fr att garantera din rtt att distribuera kopior av fri programvara (och ta betalt fr tjnsten om du nskar), att garantera att du fr kilkoden eller kan f den om du s nskar, att garantera att du kan ndra i programvaran och anvnda delar av den i ny fri programvara samt att garantera att du r informerad om dessa rttigheter.</para>

<para>Denna licens, Lesser General Public License, gller vissa specialutförmade programpaket srskt bibliotek frn Free Software Foundation och andra upphovsmn som bestnmer sig fr att använda licensen. Du kan ocks anvnda licensen, men vi freslr att du utifr beskrivningen nedan funderar p om det r den hr licensen eller ordinarie GPL som r den bsta strategin fr dig.</para>

<para>Nr vi talar om fri programvara syftar vi p frihet att använda den, inte pris. Vra GPL r skapade fr att garantera din rtt att distribuera kopior av fri programvara (och ta betalt fr tjnsten om du nskar), att garantera att du fr kilkoden eller kan f den om du s nskar, att garantera att du kan ndra i programvaran och anvnda delar av den i ny fri programvara samt att garantera att du r informerad om dessa rttigheter.</para>

<para>Fr att skydda dina rttigheter mste vi infra begrnsningar som frbjuder distributrer att hindra dig frn att anvnda dessa rttigheter eller kvara att du skall ge upp dessa rttigheter. Dessa begrnsningar motsvaras av vissa frpliktelser fr dig om du distribuerar kopior av biblioteken eller om du ndrar biblioteken.</para>

<para>Om du exempelvis distribuerar kopior av biblioteken, gratis eller mot en avgift, mste du ge mottagaren alla de rttigheter du sjlv har. Du mste ocks se till att mottagaren fr eller kan f kilkoden. Om du lnkar annan kod till biblioteket mste du tillhandahlla fullstndiga objektfiler till mottagaren s att han/hon kan terlnka dem med biblioteket efter att ha gjort ndringar i biblioteket och kompilerat om det. Du mste ven visa dessa licensvillkor fr mottagaren s att han/hon knnar till sina rttigheter.</para>

<para>Vi skyddar dina rttigheter i tv steg: (1) upphovsrätt till biblioteken och (2) dessa licensvillkor som ger dig laglig tilltelse att kopiera, distribuera och/eller ndra biblioteken.</para>

<para>Fr varje enskild distributrens skerhet vill vi frihjliga att det inte lmnas ngra garantier fr det fria biblioteket. Om biblioteket ndras av ngon annan n upphovsmannen och vidareverlts, br mottagaren knna till att han/hon inte har originalversionen och att fndringar av och felaktigheter i biblioteket inte skall belasta den ursprunglige upphovsmannen.</para>

<para>Slutligen skall nmnas att all fri programvara hotas av programvarupatent. Vi vill undvika att freterg kan fhindra anvndningen av fri programvara genom att skaffa en begrnsande licens frn en patentinnehavare. Vi insisterar drfr p att alla patentlicenser som erhlls fr en version av biblioteket mste vara frenliga med den fulla nyttjandefriheten i den hr licensen.</para>

<para>De flesta GNU-program, inklusive vissa bibliotek, teks av ordinarie GPL. Den hr licensen, GNU Lesser General Public License (nedan kallad LGPL), gller vissa speciferade bibliotek och skiljer sig avsevrt frn GPL. Vi anvnder den hr licensen fr vissa bibliotek i syfte att tillta lnkning av biblioteken till icke-fria programvaror.</para>

<para>Nr ett program lnkas med ett bibliotek, antingen statiskt eller genom ett delat bibliotek, r sammanslagningen ur rttlig synpunkt ett kombinerat verk, en hrledning ur det ursprungliga biblioteket. Enligt ordinarie GPL tillts drfr sdan lnkning endast om hela kombinationen verensstimmer med kriterierna fr fri programvara. LGPL tillter mer upplckrade kriterier fr lnkning av annan kod till biblioteket.
Vi kallar denna licens *begränsad* eftersom skyddet av användarens frihet är mindre när genom ordinarie GPL. Den ger också utvecklare av fri programvara frångif fjärd alt med konkurrerande icke-fria program. Det är dessa nackdelar som är orsaken till att vi behåller GPL för många bibliotek. Den begränsade licensen medför dock fjärd under vissa speciella omständigheter.

I sällsynta fall kan det finnas särskilt behov av att uppmuntra bredast mjuka användning av ett visst bibliotek så att det de facto blir standard. I syfte att uppnår detta mesta icke-fria program tilltas använda biblioteket. Vanligare är att ett fritt bibliotek utföra samma uppgift som ofta använda icke-fria bibliotek. I det senare fallet finns det inte mycket att vinna på att begränsa det fria biblioteket till fri programvara enbart, så vi använder den begränsade licensen.

I andra fall ger tilltill att använda ett visst bibliotek i icke-fria program fler människor möjlighet att använda en stor mängd fria programvaror. Som exempel kan nmnas att tilltill att använda biblioteket GNU C i icke-fria program, gr det mjligt för fler personer att använda hela GNU-operativsystemet eller GNU/Linux-operativsystemet.

Ven om den begränsade licensen ger ett mindre omfattande skydd av användarnas frihet, garanterar det att användaren av ett program som är knutet till biblioteket har friheten och möjligheten att kräva programmet via en ndrad version av Biblioteket.

Ven on om den begränsade licensen ger ett mindre omfattande skydd av användarnas frihet, garanterar det att användaren av ett program som är knutet till biblioteket har friheten och möjligheten att kräva programmet via en ndrad version av Biblioteket.

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Ven om den begränsade licensen garanterar det att användaren av ett program som är knutet till biblioteket har friheten och möjligheten att kräva programmet via en ndrad version av Biblioteket.
verket. Fr ett bibliotek betyder den fullständiga kllkoden all kllkod fr alla ingende moduler, eventuella dithrande definitionsfiler fr grnssnitt samt skript som anvnds fr att styra kompilering och installation av biblioteket.</para>

<para>Denna definition av biblioteket tgrder utver kopiering, distribution och ndringar omfattas inte av Licensen. Krning av en programvara med hjlp av Biblioteket r inte begrnsad, och resultatet av anvndningen teks endast om resultatet utgr ett verk baserat p Biblioteket (oberoende av att Biblioteket anvnts i ett verktyg fr att skriva ut det). Detta beror p vad Biblioteket utfrr och vad programmet som anvnder Biblioteket utfrr.</para>

<sect2 id="sect1" label="1">
<title>Paragraf 1</title>
<para>Du kan kopiera och distribuera exakta kopior av Bibliotekets fullständiga kllkod i den form du mottagit det, oavsett medium, frutsatt att du tydligt o av vilket avsnitt av Licensen och till alla garantifriskrivningar samt distribuerar en kopia av Licensen tillsammans med Biblioteket.</para>

<para>Du kan ta ut en avgift fr proceduren att verfra en kopia och du kan erbjuda garanti mot en avgift om du s nskar. </para>

</sect2>

<sect2 id="sect2" label="2">
<title>Paragraf 2</title>
<para>Du kan ndra din kopia eller dina kopior av Biblioteket eller delar av det och p s stt skapa ett verk baserat p Biblioteket. Du kan ven kopiera och distribuera dessa ndringar eller verk enligt villkoren i Paragraf 1 ovan, under frutsttning att ven fljande villkor r uppfyllda: </para>

<ol numeration="loweralpha">
<li><para>Det frndrade verket mste i sig sjlv vara ett programvarubibliotek.</para></li>
<li><para>De ndrade filerna mste innehlla tydlig information om att du har ndrat filerna och vilket datum dessa ndringar utfrrdes.</para></li>
<li><para>Hela verket mste licensieras utan kostnad till alla tredjemn enligt villkoren i Licensen.</para></li>
<li><para>Om en modul i det ndrade Biblioteket hnisvar till en funktion eller en datatabell som skall levereras med ett applikationsprogram som anvnder den modulen, annat n som ett argument nr modulen anropas, mste du frskra att, i hndelse av att en applikation inte tillhandahller funktionen eller tabellen, modulen nd fungerar och utfrr det den huvudsakligen syftar till.</para></li>
</ol>

<para>(Exempelvis har en funktion i ett bibliotek som skall berkna kvadratrrter ett klart och vldefinierat syfte oberoende av applikationen. Drfr krvs att samtliga applikationsfunktioner och -tabeller som anvnds av denna funktion, enligt paragraf 2d, mste vara valfria: om applikationen inte tillhandahller det mste kvadratrotsfunktionen nd berkna kvadratrrter.)</para>
Dessa krav gäller det ndrade verket i dess helhet. Om identifierbara delar av verket inte hrrr frn Biblioteket och rimligen kan anses fristende och separata verk gller inte licensvillkoren i dessa delar nr de distribueras som separata verk. Om samma delar distribueras som en del av en helhet som innehller verk baserat p Biblioteket, mste distributionen i sin helhet ske enligt villkoren i Licensen. Licensen skall i sdant fall glla fr andra licensinnehavare fr hela verket och dtem d till varje del av Biblioteket oavsett vem som r upphovsman till de olika delarna.

Avsikten med denna paragraf r inte att hvda rttigheter eller ifrgastta dina rttigheter till ett verk som skrivits helt av dig. Syftet r i stilet att utva rtten att kontrollera distributionen av hrledda verk eller kombinerade verk baserade p Biblioteket.

Om det p ett lagrings- eller distributionsmedium finns ett annat verk som inte baseras p Biblioteket (eller ett verk baserat p Biblioteket) tillsammans med Biblioteket omfattas inte det andra verket av Licensen.

Du kan vlja att tillmpa villkoren i GNU GPL i stilet fr den hr Licensen fr en viss kopia av Biblioteket. I syfte att gra detta mste du ndra hnvisingar i upphovsrtsklausulerna till GNU GPL, version 2 istilet fr den hr Licensen. (Om det existerar en nyare version av GNU GPL n version 2, kan du ange den versionen i stilet.) Du fr inte gra ngra andra ndringar i upphovsrtsklausulerna.

Om distribution av objektkod utfrs genom att erbjuda tillgng till att kopiera den frn en bestmd plats skall motsvarande tillgng till att kopiera kllkoden frn samma plats rknas som distribution av kllkoden, ven om tredjeman inte behver kopiera kllkoden tillsammans med objektkoden.
<title>Paragraf 5</title>

Ett program som inte innehåller del som hrr från Biblioteket, men r skapat fr att arbeta med Biblioteket genom att kompileras eller linkas med det, kallas ett <quote>verk som använder Biblioteket</quote>. Ett sådant verk r i sig inte ett hrllett verk av Biblioteket och faller utanfr licensens rckvidd. 

Dremot r en linktion av ett <quote>verk som använder Biblioteket</quote> med Biblioteket till en krbar fil en hrlhedning av Biblioteket (eftersom det innehåller delar av Biblioteket) snarare n ett <quote>verk som använder Biblioteket</quote>. Den krbara filen teks i sdant fall av Licensen. I <link linkend="sect6">paragraf 6</link> beskrivs villkoren fr distribution av sdana krbara filer.

<para>Nr ett <quote>verk som använder Biblioteket</quote> använder material frn en etikettfil som ingr i Biblioteket kan objektkoden fr verket vara ett hrllett verk ur Biblioteket ven om klkloden inte r det. Denna skillnad r srskilt viktig om verket kan lnkas utan Biblioteket eller om verket i sig r ett bibliotek. Var grnsen gr fr att detta skall vara ett faktum r inte exakt definierat i lagstftningen. 

<para>Om en sdan objektfil endast använder numeriska parametrar, datastrukturlayouter, accessor-funktioner, korta makron och kortare inline-funktioner (tio rader eller kortare) r anvndningen av objektfilen obegrndad, oavsett om det lagligt sett r ett hrllett verk. (Krabara filer som innehller objektkoden samt delar av Biblioteket faller nd under <link linkend="sect6">paragraf 6</link>.)

<para>Om verket r en hrlhedning ur Biblioteket, kan du distribuera objektkoden fr verket enligt villkoren i <link linkend="sect6">paragraf 6</link>. Samtliga krbara filer som innehller det verket faller ocks under <link linkend="sect6">paragraf 6</link>, oavsett om de r lnkade direkt till Biblioteket eller inte. 

<sect2 id="sect6" label="6">
<title>Paragraf 6</title>

Undantag frn paragraferna ovan kan gras fr kombination eller lnktion av ett <quote>verk som använder Biblioteket</quote> med Biblioteket fr att skapa ett verk som innehller delar av Biblioteket samt distribution av verket enligt andra villkor, under frutstnning att villkoren tillter ndringar i verket fr kundens egen rkning och omvnt en mjlighet att ta bort ndringarna. 

Varje kopia av verket mste tljas av ett tydligt meddelande att Biblioteket anvnds i verket och att Biblioteket och dess anvndning tcks av den hr Licensen. Du mste bifoga en kopia av Licensen. Om verket under krning visar upphovsrtsklausuler mste du ven inkludera upphovsrtsklausuler fr Biblioteket samt en referens till kopian av denna Licens. Du mste ven gra en av fljande saker: <orderedlist numeration="loweralpha"> 
<li><quote>Varje kopia av verkets maskinskrbar form inklusive eventuella ndringar och anvnts i verkets definitionssfiler i Biblioteket.</quote> 
<li><quote>Distribuerar vturat den kompletta kllkoden fr Biblioteket i maskinskrbar form inklusive eventuella ndringar och anvnts i verkets definitionssfiler i Biblioteket.</quote> 
<li><quote>Varje kopia av verkets maskinskrbar form inklusive eventuella ndringar och anvnts i verkets definitionssfiler i Biblioteket.</quote> 
<li><quote>Varje kopia av verkets maskinskrbar form inklusive eventuella ndringar och anvnts i verkets definitionssfiler i Biblioteket.</quote> 
</listitem>
</listitem>
</sect2>
Använd en implig delad biblioteksfunktion för inkning med Biblioteket. En implig funktion r en som (1) under krorna använder en redan befintlig kopia av biblioteket i stället för att kopiera biblioteksfunktioner till den krbara filen och (2) fungerar korrekt med en ndrad version av biblioteket, om användaren installerar en, s lige den ndrade versionen r grnssnittskompatibel med versionen som verket skapades fr.</para>

Bifoga ett skriftligt erbjudande, gllande i minst tre r, att ge samma anvndare materialen upprknade i <link linkend="sect6a">6a</link> ovan, mot en avgift som inte r hgre n sjlvkostnaden fr distributionen.</para>

Om distributionen av verket sker genom erbjudande av tillgng till kopiering frn en bestmd plats, erbjuda motsvarande tillgng att kopiera de ovan nmnda materialen frn samma plats.</para>

Kontrollera att anvndaren redan har mottagit en kopia av materialen eller att du redan har skickat en kopia till denna anvndare.</para>

Fr krbara filer mste <quote>verket som anvnder Biblioteket</quote> innehlla samtliga data- och hjlpprogram som behvs fr att skapa en krbar fil frn den. Ett undantag kan dock gras fr material som normalt distribueras, antingen i binr form eller kllkod, med huvudkomponenterna (kompilator, krna osv.) i vilket den krbara filen krs, svida inte denna komponent medfljer den krbara filen.</para>

Det kan intrffa att detta krav motsger licensbegrensningarna i andra patenterade bibliotek som normalt inte medfljer operativsystemet. Sdana begrnsningar innebr att du inte kan anvnda de patenterade biblioteken samtidigt med Biblioteket i en krbar fil som du distribuerar.</para>

Du kan placera biblioteksfunktioner som r ett verk baserat p Biblioteket sida vid sida i ett enskilt bibliotek tillsammans med andra biblioteksfunktioner som inte teks av Licensen, och distribuera ett sdant kombinerat bibliotek under frutsnstning att separat distribution av verket baserat p Biblioteket och av de andra biblioteksmodulerna r tilltet, samt under frutsnstning att du gr ngot av fljande:</para>

Bifogar en kopia av samma verk baserat p Biblioteket, men skild frn andra biblioteksfunktioner. Distributionen mste ske enligt villkoren i ovanstende paragrafer.</para>

Meddelar tydligt i det sammansatta biblioteket att en del av biblioteken r ett verk baserat p Biblioteket samt frklarar var den medfltande separata versionen av samma verk kan terfinnas.
<sect2 id="sect8" label="8">
<title>Paragraf 8</title>


<sect2 id="sect9" label="9">
<title>Paragraf 9</title>


<sect2 id="sect10" label="10">
<title>Paragraf 10</title>

<p>Varje gng du distribuerar Biblioteket (eller verk baserat p Biblioteket) erhller mottagaren automatiskt en licens frn den ursprunglige licensgivaren att kopiera, distribuera, lnka till eller ndra Biblioteket enligt dessa licensvillkor. Du kan inte lgga mottagaren ngra andra begrnsningar av rttigheterna n de som fljer av licensvillkoren. Du r inte skyldig att tillse att tredje man fljer Licensen.\p></sect2>

<sect2 id="sect11" label="11">
<title>Paragraf 11</title>

<p>Om, till fljd av ett domstolsutslag eller anklagelse om patentintrng eller av ngot annat skl (ej begrnsat till patentfrgor), villkor lggs dig (antingen genom domstolsbeslut, avtal eller p annat stt) som strider mot den hr Licensen, befriar det dig inte frngot av villkoren i Licensen. Om du inte kan distribuera Biblioteket och samtidigt uppfylla villkoren enligt Licensen och andra skyldigheter, fr du som en konsekvens inte distribuera Biblioteket. Om exempelvis ett patent inte tiller fri distribution av Biblioteket till alla dem som mottar kopior direkt eller indirekt frn dig, mste du avst helt frn distribution av Biblioteket.\p></sect2>

<p>Om ngon del av denna paragraf frklaras ogiltig eller ej verkstllbar i ngot sammanhang skall terstoden av paragrafen gilla och paragrafen i sin helhet gilla i andra sammanhang.\p></sect2>

<p>Syftet med denna paragraf r inte att frn dig att beg intrng i patent eller andra rttigheter eller att frm dig att bstrida giltigheten i sdan rttigheter. Det enda syftet med denna paragraf r att skydda distributionssystemet fr fri programvara vilket grs genom anvandandet av dessa licensvillkor. Mnga mnniskor har lmnat generosa bidrag till det stora utbudet av programvara som distribueras i det hr systemet och stter sin tillit till en fortsatt anvndning av systemet. Det r upphovsmannen sjlv som beslutar om han/hon vill distribuera programvara genom detta eller annat
system och en licensinnehavare kan inte framtvinga ett sdant beslut.</para>

<para>Denna paragrafs syfte r att gra helt klart vad som anses vara konsekvensen av terstende delen av Licensen.</para>

</sect2>

<sect2 id="sect12" label="12">
<title>Paragraf 12</title>

<para>Om distributionen och/eller anvndningen av Biblioteket r begrnsad i vissa lnder, p grund av patent eller upphovsrtsligt skydd ett viss tilldelad r grnsnitt, kan upphovsmannen som placerar Biblioteket under den hr Licensen lgga till en uttrycklig geografisk spridningsklausul, enligt vilken distribution r tillten i lnder frutom dem i vilket det r frbjudet. Om s r fallet kommer begrnsningen att utgra en fullvrdig del av Licensen.</para>

</sect2>

<sect2 id="sect13" label="13">
<title>Paragraf 13</title>

<para>Free Software Foundation kan ge ut reviderade och/eller nya versioner av LGPL frn tid till annan. Sdana nya versioner kommer i sin helhet att pminna om nuvarande version, men kan skilja sig t i detaljer som berr nya problem eller vervganden.</para>


</sect2>

<sect2 id="sect14" label="14">
<title>Paragraf 14</title>

<para>Om du vill anvnda delar av Biblioteket i andra fria programvaror vars distributionsvillkor inte r frenliga med dessa skall du skriva till upphovsmannen och begra tillstnd. Fr programvara dr Free Software Foundation har upphovsrt, skriver du till Free Software Foundation. Vi gr ibland undantag fr detta. Vrt beslut kommer att styras av tv ml, nmligen att bevara den fria statusen av alla verk som hrleds ur vr fria programvara samt att frmja delning och teranvndning av programvara i allmnhet.</para>

</sect2>

<sect2 id="sect15" label="15">
<title>INGEN GARANTI</title>
<style> INGEN GARANTI </style>

<para>VEN OM BIBLIOTEKET LICENSIERAS UTAN KOSTNAD, GES INGEN GARANTI FR BIBLIOTEKET, UTOM SDAN GARANTI SOM MSTE GES ENLIGT GLLANDE LAGSTIFTNING. FRUTOM NR S SKRIFTLIGT ANGES, TILLHANDAHILLER UPPHOVSRRTTSINNEHAVARENS OCH/ELLER ANDRA PARTER BIBLIOTEKET I <quote>BEFINTLIGT SKICK</quote> (AS IS) UTAN GARANTI AV NGOT SLAG, VARKEN UTRYCKLIGA ELLER UNDERFRSTDDA, INKLUSIVE, MEN INTE BEGRNSAT TILL UNDERFRSTDDA GARANTIER VID KP OCH LMPLIGHET FR ETT VISST NDAML. HELA RISKEN FR
KVALITET OCH ANVNDBARHET AV BIBLIOTEKET BRÅK AV DIG. OM BIBLIOTEKET SKULLE VIS
SIG BEHTAT MED FEL DU ALLA KOSTNADER FR FELETS AVHJLPANDE, REPARATION ELLER
NDVNDIG SERVICE.</para>
</sect2>

<sect2 id="sect16" label="16">
<title>Paragraf 16</title>
<para>INTE I NGOT FALL, SVIDA INTE DET KRVS ENLIGT GLLANDE LAGSTIFTNING ELLER
AVTALAS SKRIFTLIGT, SKALL EN UPPHOVSRTTSINNEHAVARE ELLER ANNAN PART SOM KAN
NDRA OCH/ELLER DISTRIBUERA BIBLIOTEKET ENLIGT OVAN, VARA SKYLDIG UTGE ERSTTVNING
FR SKADA DU LIDER, INKLUSIVE ALLMN, DIREKT ELLER INDIERT SKADA SOM FLER P GRUND
AV ANVNDNING AV, ELLER OMJLIGHET ATT ANVNDNA, BIBLIOTEKET (INKLUSIVE MEN INTE
BEGRNSAT TILL FRLUST AV DATA, DATA SOM FRAMSTLLS FELAKTIGT, FRLUSTER SOM DU
ELLER TREDJE MAN LIDER ELLER FEL I BIBLIOTEKET SOM GR ATT DET INTE FUNGERAR MED
ANNAN PROGRAMVARA), VEN OM UPPHOVSRTTSINNEHAVARE ELLER ANNAN PART HAR
UNDRTATS OM MJLIGHETEN TILL SDAN SKADA.</para>
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
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components (compiler, kernel, and so on) of the operating system on
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</sect1>

<sect1 id="terms" label="none">
<title>Ehdot kopioimiselle, levittämiselle ja muuttamiselle</title>

<sect2 id="sect0" label="0">
<title>Kohta 0</title>

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</sect2>

<sect2 id="sect1" label="1">
<title>Kohta 1</title>

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Ohjelman kopiointimen, muuttaminen, lisensointi edelleen tai Ohjelman levittäminen muuten kuin tnn Lisenssin ehtojen mukaisesti on kielletty. Kaikki yrittymistä muulla tavoin kopioida, muuttaa, lisensoida edelleen tai levittäjä Ohjelmaa ovat pitempiä ja johtavat automaattisesti tnn Lisenssin mukaisten oikeuksien pttymiseen. Sen sijaan, jotka ovat saaneet kopiointa tai oikeuksia Lisenssin saajalta tnn Lisenssin ehtojen mukaisesti, eivt menet saamiaan lisensointia oikeuksia niin kauan kun he noudattavat nyt ehtoja.</para>

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Aina kun Ohjelmaa (tai Ohjelman perustuvaa teosta) levitetään, vastaanottaja saa automaattisesti alkuperäiseltä tekijältä Lisenssin kopioida, levittäjä ja muuttaa Ohjelmaa niden ehtojen ja edellytysten sitominen. Vastaanottajalle ei saa asettaa mitä lisärajoitteita tss annettujen oikeuksien kytys. Lisenssin saajalla ei ole vastuuta valvoa noudattavatko kolmannet osapuolet tnn Lisenssin.}</para>
<title>Kohta 7</title>

<p>Jos oikeuden pts tai vite patentin loukauksesta tai jokin muu syy (rajoittumatta patenttikysymyksiin) asettaa Lisenssin saajalle ehtoja (olipa niiden alkuper sitten tuomio, sopimus tai jokin muu), jotka ovat vastoin nit lisenssiehtoja, ne eivt anna oikeutta poiketa tst Lisenssist. Jos levittminen ei ole mahdollista siten, ett samanaikaisesti toimitaan sek tmn Lisenssin ett joidenkin muiden rajoittavien velvoitteiden mukaisesti, tllin Ohjelmaa ei saa lainkaan levitt. Jos esimerkiksi jokin patenttilisenssi ei salli kaikille niille, jotka saavat Ohjelman Lisenssin saajalta joko suoraan tai epsuorasti, Ohjelman levimmist edelleen ilman rojaltimaksuja, tllin ainut tapa tytt sek patenttilisenssin ett tmn Lisenssin ehdot on olla levitttt Ohjelmaa lainkaan.</p>

<p>Jos jokin osa tst kohdasta katsotaan ptemttmksi tai mahdottomaksi vahvistaa oikeudessa joissakin tietyiss olosuhteissa, silloin tt kohtaa on tarkoitus soveltaa ptein osin ja muissa olosuhteissa kokonaisuudessaan.</p>

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<p>Tmn kohdan tarkoituksesta on tehdyys selvksu se, mik on tmn Lisenssin muiden osien seuraus.</p>

<title>Kohta 8</title>

<p>Jos patentit tai tekijnoikeudella suojatut kyttltymt rajoittavat Ohjelman levimmist tai kytt joissakin valtioissa, Ohjelman alkuperinen tekn, joka lisensoi ohjelmaansa tll Lisensstill, voi asettaa nimenomaisia maantieteellisi levysrajoituksia, jolloin levittminen on sallittu joko mukaan- tai poislukien nm valtiot. Tllisess tapauksessa nm rajoitukset otetaan huomioon kuin ne olisi kirjoitettu tmn Lisenssin sek.</p>

<title>Kohta 9</title>

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<title>Kohta 10</title>
Jos lisenssin saaja haluaa ottaa osia ohjelmasta mukaan muihin vapaisiin ohjelmiin, joiden levysehdot ovat erilaiset, hän tulee kirjoittaa tekijälle ja kysy lupaa. Jos ohjelman tekijäomistuksen omistaa Free Software Foundation, on kirjoitettava heille; he tekevät joskus poikkeuksia. Free Software Foundationin ptsten ohjenuorana on kaksi pmr; silyttävä kaikista heidän vapaisista ohjelmissa voidaan ottaa osaa ja yleisesti kannustaa ohjelmien jakamiseen ja uudelleen kytäntäminen.

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Jos ohjelma on lisensoitu ilmaiseksi, tällöin ohjelmalle ei myynet takuuta lain sallimissa rajoissa. Elleen tekijäomistajalta saattaa muuta siihen osota, että ohjelma on tarjolla &quot;sellaisena kuin se on&quot; ilman mitään takuuta, ilmaistua tai hiljasta, sisältä, muttei tyhjentävä, hiljaisen takuun kaupallisesti hyvksyttävä laadusta ja soveltuva uudelleen tiettyyn tarkoilukseen. Lisenssin saajalla on kaikki riski Ohjelman laadusta ja suorituskyvyystä. Jos ohjelma osoittautuu virheelliseksi, Lisenssin saajan vastuulla ovat kaikki huolto- ja korjauskustannukset.

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

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

<para>
For example, on rare occasions, there may be a special need to
courage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.
</para>

<para>
In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
non-free programs enables many more people to use the whole GNU
operating system, as well as its variant, the GNU/Linux operating
system.
</para>

<para>
Although the Lesser General Public License is Less protective of the
users’ freedom, it does ensure that the user of a program that is
linked with the Library has the freedom and the wherewithal to run
that program using a modified version of the Library.
</para>

<para>
The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
<quote>work based on the library</quote> and a <quote>work that uses the
library</quote>. The former contains code derived from the library,
whereas the latter must be combined with the library in order to run.
</para>
other authorized party saying it may be distributed under the terms of
this Lesser General Public License (also called "this License").
Each licensee is addressed as "you".

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

<para>
The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the
Library" means either the Library or any derivative work under
copyright law: that is to say, a work containing the Library or a
portion of it, either verbatim or with modifications and/or translated
straightforwardly into another language. (Hereinafter, translation is
included without limitation in the term "modification".)

<para>
"Source code" for a work means the preferred form of the work for
making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
and installation of the library.

<para>
Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

<para>
You may copy and distribute verbatim copies of the Library's
complete source code as you receive it, in any medium, provided that
you conspicuously and appropriately publish on each copy an
appropriate copyright notice and disclaimer of warranty; keep intact
all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

</para>

</para>

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

</para>

</sect2>

<sect2 id="sect2" label="2">
<title>Section 2</title>
<para>
You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
</para>

<orderedlist numeration="loweralpha">
<li>
<para>
The modified work must itself be a software library.
</para>
</li>
<li>
<para>
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
</para>
</li>
<li>
<para>
You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
</para>
</li>
<li>
<para>
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
</para>
</li>
</orderedlist>

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable work that uses the Library, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

1. Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
2. Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

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distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Seccion 10</title>
<para>
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</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Seccion 11</title>
<para>
If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.
</para>
</sect2>

<para>
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.
</para>
</sect2>
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and any later version, you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a
license version number, you may choose any version ever published by
the Free Software Foundation.
</para>
</sect2>

<sect2 id="sect14" label="14">
<title>Seccion 14</title>

<para>
If you wish to incorporate parts of the Library into other free
programs whose distribution conditions are incompatible with these,
write to the author to ask for permission. For software which is
copyrighted by the Free Software Foundation, write to the Free
Software Foundation; we sometimes make exceptions for this. Our
decision will be guided by the two goals of preserving the free status
of all derivatives of our free software and of promoting the sharing
and reuse of software generally.
</para>
</sect2>

<sect2 id="sect15" label="15">
<title>NO WARRANTY</title>

<subtitle>Seccion 15</subtitle>

<para>
BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO
WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.
EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR
OTHER PARTIES PROVIDE THE LIBRARY <quote>AS IS</quote> WITHOUT WARRANTY
OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE
OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU
ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
</para>
</sect2>

<sect2 id="sect16" label="16">
<title>Seccion 16</title>

<para>
IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN
WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY
AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU
FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR
CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE
LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING
RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A
FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
<title>Predgovor</title>

<p>License pogodbe veine programske opreme so zasnovane tako, da vam prepreujejo njegovo svobodno razirjanje in spreminjanje. Za razliko od teh pa vam Splona dovoljenja GNU (angl. GNU General Public Licenses, GPL) jamijo svobodo pri razirjanju in spreminjanju proste programske opreme ter s tem zagotavljajo, da ostane ta prosta za vse njene uporabnike.</p>

<p>Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona dovoljenja GNU zagotavljaj pravico razirjanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanja njenih delov v novi prosti programski opremi; in seznanjanje z vsemi temi pravicami.</p>

<p>To dovoljenje, Manj splono dovoljenje, se nanja na nekatere posebej zasnovane programske pakete - navadno knjinice - ustanove Free Software Foundation in na vse druge programe, katerih avtorji so se zavezali k njeni uporabi. Tudi vi ga lahko uporabljate, a najprej vam priporoamo, da glede na razlago spodaj pazljivo razmislite, ali je v določenem primeru bolje uporabljati to dovoljenje ali morda navadno Splono dovoljenje.</p>

<p>Ko govorimo o prosti programski opremi, imamo s tem v mislih svobodo, ne cene. Splona dovoljenja GNU zagotavljaj pravico razirjanja kopij proste programske opreme (in po elji zaraunavati za to storitev); pravico do dostopa do izvorne kode; pravico spreminjanja programske opreme ali uporabljanja njenih delov v novi prosti programski opremi; in seznanjanje z vsemi temi pravicami.</p>

<p>Zaradi zavarovanja vajih pravic je uvedena omejitev, ki prepoveduje vsakomur, da bi vam te pravice kratil ali od vas zahteval predajo teh pravic. Te omejitve se prevedejo v doloeno vao odgovornost, e razirjate kopije knjinice ali jo spreminjate.</p>

<p>Na primer, e razirjate kopije neke knjinice, bodisi zastonj ali za plailo, morate dati prejemnikom vse pravice, ki jih imate sami. Preprati se morate, da bodo tudi oni prejeli ali imeli dostop do izvorne kode. e s knjinico povezujete drugo kodo, morate prejemnikom ponuditi popolne objektne datoteke, tako da jih lahko potem, ko knjinico spremenijo, znova v vsebujo s knjinico in prevedejo. In morate jim pokazati te pogoje (pravzaprav izvirnik, opomba prevajalca), da bodo poznavali svoje pravice.</p>

<p>Vae pravice itimo v dveh potezah: (1) avtorsko zaitimo knjinico in (2) vam ponujamo to dovoljenje, ki vam daje pravno dovoljenje za razmnoevanje, razirjanje in ali spreminjanje knjinice.</p>

<p>Prav tako, za zaito vsakega avtorja in zaradi nae zaite elmo zagotoviti, da vsakdo razume, da za to prosto programsko opremo ni nobenega jamstva. e je programsko opremo spremenil nekdo drug in ga posreduval naprej, elmo, da njegovi prejemniki vedo, da to, kar imajo, ni izvirnik, zato da se problemi, ki jih povzroijo drugi, ne bodo odraali na ugledu izvornega avtorja. Zaradi zaite vsakega razirjevalca elmo zagotoviti, da vsakdo razume, da za to prosto knjinico ni nikakrnega jamstva. e je knjinico spremenil nekdo drug in jo posreduval naprej, elmo, da njeni prejemniki vedo, da to, kar imajo, ni izvirnik, da problemi, ki jih povzroijo drugi, ne bodo kvarili ugleda izvornega avtorja.</p>

<p>Konno, vsak prost program nenehno ogroajo programski patenti. elmo se izogniti nevarnosti, da bi podjetja uinkovito omejevala uporabnike prostega programa s pridobivanjem omejujoih licenc od lastnikov patentov. Za prepreitev tega jasno zahtevamo, da mora biti vsak patent za katerokoli izpeljano razliico knjinice licenciran tako, da je popolnoma konsistenten s popolno svobodo rabe, kot jo doola to dovoljenje.</p>
Veino programja GNU, vkljuno z nekaterimi knjicami, pokriva navadno Splono dovoljenje GNU. To dovoljenje, Manj splono dovoljenje GNU, se nanaa na doloene posebne knjine, in se precej razlikuje od navadnega Splonega dovoljenja. To dovoljenje uporabljamo za tiste knjine, za katere elim omoiti tudi povezovanje v neprote programe.</para>

Ko se program pove z knjico, najsibo statino ali pa s pomojo deljene knjine, je kombinacija obojega skupaj, pravno gledano, zdrueno delo, izpeljanka izvirne knjine. Navadno Splono dovoljenje torej dovoljuje takno povezovanje le, e celotna kombinacija zado prav tam dolenim kriterijem svobode. Manj splono dovoljenje dovoljuje bolj ohlapne pogoje za povezovanje druge kode s knjico.</para>

Tem dovoljenju pravimo "Manj" splono dovoljenje, saj manj zavaruje svobodo uporabnika kot pa navadno Splono dovoljenje. Drugim razvijalcem prostega programja tudi ponuja manj prednosti pred konkurentnimi neprostimi programi. Te pomanjkljivosti so razlog, da smo za tevilne knjine uporabili navadno Splono dovoljenje. Vendar Manj splono dovoljenje v dolenih pogojih pomeni prednost.</para>

Denimo, da v redkih primerih obstaja posebna potreba spodbuditi kar najiro rabo doloene knjine, da bi ta postala de-facto standard. Da lahko to doseemo, mora biti neprostit programom dovoljeno uporabljati to knjico. Pogosteje se zgodi, da prosta knjina opravi enako delo kot iroko uporabljene neprote knjine. V tem primeru pridobimo le mlo, e omejimo rabo proste knjine le na prosto programje, zato raje uporabimo Manj splono dovoljenje.</para>

V drugih primerih dovoljenje rabe doloene knjine v neprostitih programih omogoi vejemu tevilu ljudi, da uporabljajo veji obseg proste programe. Dovoljenje za uporabo knjine GNU C v neprostih programih je, denimo, omogoilo mnogim ljudem, da so uporabljali popoln operacijski sistem GNU, kot tudi njegovo inaico, operacijski sistem GNU/Linux.</para>

eprav Manj splono dovoljenje manj zaiti uporabnikovo svobodo, pa vendarle zagotavlja, da ima uporabnik programa, ki je povezan s knjico, proste roke pri poganjanju tega programa s spremenjen razlico te knjine.</para>

Sledijo natanke dooloitve in pogoji za razmnoevanje, razirjanje in spreminjanje. Pozorni bodite na razliko med "delom, ki temelji na knjici" in "delom, ki uporabja knjine." Prvo vsebuje kodo, izpeljano iz knjine, medtem, ko mora biti drugo kombinirano s knjico, da lahko tee.</sect1>

Doloila in pogoji za razmnoevanje, razirjanje in spreminjanje (title)

Razdelek 0 (sect2 id="sect0" label="0")

Ta licenca se nanaa na vsako programsko knjino ali drug program, ki vsebuje obvestilo lastnika avtorskih pravic (angl. copyright holder) ali druge pooblaene osebe, z izjavo, da se lahko razirja pod pogoji Manj splonega dovoljenja GNU (angl. Lesser General Public License), imenovanega tudi "ta licenca." Vsakega izdajatelja licence naslavljamo z "vi". Prva licenca se nanaa na vsako programsko knjino ali drug program, ki vsebuje obvestilo lastnika avtorskih pravic (angl. copyright holder) ali druge pooblaene osebe, z izjavo, da se lahko razirja pod pogoji Manj splonega dovoljenja GNU (angl. Lesser General Public License), imenovanega tudi "ta licenca." Vsakega izdajatelja licence naslavljamo z "vi."
oblikujemo izvedljive datoteke.</para>

<para><quote>Knjinica</quote> v nadaljevanju pomeni vsako takoj programsko knjinico ali delo, ki se razirja pod temi pogoji. <quote>Delo, ki temelji na knjinici</quote> pomeni bodisi knjinico ali pa katerokoli izvedeno delo po zakonu avtorskih in sorodnih pravicah (angl. copyright law): se pravi delo, ki vsebuje knjinico ali njen del, bodisi dobesedno ali s spremembami in/ali prevedeno v drug jezik. (Tukaj in povsod v nadaljevanju je prevod vključen brez omejitev v pojem <quote>spremembe</quote>.)</para>

<para><quote>Izvorna koda</quote> pri delih pomeni obliko dela, najprimernejo za izdelavo sprememb. Pri knjinici pomeni izvorna koda vso izvorno kodo za vse module, ki jih vsebuje, poleg tega pa e morebitne datoteke z definicijami vmesnika, povezanega s tem delom, ter skripte za nadzor prevajanja in namestitev knjinice.</para>

<para>Dovoljenje ne pokriva nobenih drugih dejavnosti razen razmnoevanja, razirjanja in spreminjanja; ostale so izven njegovega dosega. Dejanje zagona programa z uporabo knjinice ni omejeno in odvodni zapis programa je zajet, e njegova vsebina predstavlja delo, ki je izpeljano iz knjinice (ne glede na to, da je bila pri orodju za njegovo pisanje uporabljena knjinica). Ali je to res ali ne, je odvisno od tega, kaj knjinica dela in kaj dela program, ki knjinico uporablja.</para>

<sect2 id="sect1" label="1">
<title>Razdelek 1</title>
<para>Dovoljeno je razmnoevati in razirjati dobesedne izvode izvorne kode programa v enaki obliki, kot jo dobite, preko kateregakoli nosilca, e je le na vsakem izvodu razlono in primerno objavljeno obvestilo o pravicah razirjanja in zanikanja jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa poleg programa e izvod tega dovoljenja. Razmnoujete in razirjate lahko dobesedne izvode izvorne kode knjinice v enaki obliki, kot jo dobite, preko kateregakoli medija, e le na vsakem izvodu razlono in primerno objavite obvestilo o pravicah razirjanja in zanikanja jamstva; vsa obvestila, ki se nanaajo na to dovoljenje in odsotnost vsakrnega jamstva pustite nedotaknjena; in da prejmejo vsi drugi prejemniki programa poleg programa e izvod tega dovoljenja.</para>

<para>Za fizino dejanje prenosa kopije lahko zaraunavate in po vai presoji lahko ponudite garancijsko zaito v zameno za plailo.</para>
</sect2>

<sect2 id="sect2" label="2">
<title>Razdelek 2</title>
<para>Dovoljeno je spreminjati svoj izvod ali izvode knjinice ali katerega koli njenega dela, in tako narediti delo, ki temelji na knjinici, ter razmnoevati in razirjati takne spremembe ali dela pod pogoji zgornjega <link linkend="sect1">razdelka 1</link>, e je zadoeno tudi vsem naslednjim pogojem: <orderedlist numeration="loweralpha">
<li>Spredmenjeno delo mora biti programska knjinica.</li>
<li>Zagotoviti je treba, da spremenjene datoteke nosijo vidna obvestila o tem, da so spremenjena, in datum vsake spremembe.</li>
</orderedlist>
<listitem>
<para>Zagotoviti morate, da je celotno delo brezplano licencirano tretjim osebom pod pogoji te licence.</para>
</listitem>

<listitem>
<para>e se funkcionalnost v spremenjeni knjizici sklicuje na funkcijo ali tabelo podatkov, ki jih priskrbi uporabni program, ki to funkcionalnost uporablja, na drug nacin kot argument ob klicu funkcionalnosti, morate v dobri veri poskrbeti, da tudi v primeru, ko program ne ponuja take funkcije ali tabele, funkcionalnost e vedno deluje, in izvaja katerikoli del svojega namena, ki e ostaja smiseln.</para>

<Funkcija, ki v neki knjizici skrbi za izraun kvadratnih korenov, ima namen, ki je popolnoma dobro definiran in neodvisen od programa. Podrazdelek 2.d. torej zahteva, da katerakoli funkcija ali tabela, ki jo glavni program ponuja tej funkciji, ni obvezna za pravilno delovanje funkcije za izrauna kvadratnih korenov.)

Te zahteve se nanaajo na spremenjeno delo kot celoto. e razdelki tega dela, ki jih je mogoce prepoznati, niso izpeljani iz knjizice in jih je mogoce same po sebi utemeljeno obravnavati kot neodvisna in loena dela, potem to dovoljenje in njegova doolico za te razdelke ne velja, e jih razirjate kot loena dela. A e razirjate iste razdelke kot dele celote, ki je delo, ki temelji na knjizici, mora biti razirjanje celote izvedeno pod pogoji tega dovoljenja, katerega dovoljenja uporabne za druge uporabnike dovoljenja se razirijo na vso celoto, in torej na vsak njen del, ne glede na to, kdo ga je napisal.

Namen tega razdelka torej ni, da bi zanikal ali spodbijal vaše pravice do dela, ki ste ga v celoti napisali sami; namesto tega je namen razdelka raziriti pravico nadzora nad razirjanjem izpeljanih ali zdruenih del, ki temeljijo na knjizici.

Poelj Lahko uporabite namesto tega dovoljenja za dani izvod knjizice tudi pogoje navadnega Splonega dovoljenja GNU. e elite to storiti, morate spremeniti vsa sklicevanja na to dovoljenje tako, da se, namesto na to dovoljenje, sklicujejo na navadno Spono dovoljenje GNU (angl. GNU General Public License) razliice 2. (e obstaja razliica navadnega Sponega dovoljenja GNU tevilke, veje od 2, potem lahko, e tako elite, doolite po tevilko razliice.) V teh obvestilih ne spreminjajte niesar drugega.

Ko se enkrat zgodi opisana sprememba za dani izvod, je za ta izvod to nepovratno, torej Spono dovoljenje GNU velja tudi za vse nadaljnje izvode in izpeljana dela, ki izvirajo iz tega izvoda.

Ta monost je uporabna, e elite prespiti del kode knjizice v program, ki ni knjizica.
Knjino (ali delo, ki temelji na njej, pod doloili razmnoevati in razirjati v objektini kodni ali izvedljivi obliki pod pogojem zgornjih razdelkov 1) je dovoljeno razmnoevati in razirjati v objektini kodni ali izvedljivi obliki pod pogojem zgornjih razdelkov 1 in razdelkov 2, e jo pospremite s popolno ustrezno strojno berljivo izvorno kodo, ki mora biti razirjana pod pogojem zgornjih razdelkov 1 in razdelkov 2 na nosilcu, navadno uporabljanem za izmenjavo programja.

e se razirjanje objektne kode omogoa s ponujanjem dostopa do izvoda z doloenega mesta, potem pogoju za razirjanje izvorne kode zato se omogoa enaka dostopa do izvoda izvorne kode, eprav tretje osebe niso dolne razmnoevati izvorne kode poleg objektne kode.

Program, ki ne vsebuje izpeljanke nobenega dela knjinice, a je zasnovan tako, da deluje s to knjinico tako, da je z njo preveden ali povezan, se imenuje delo, ki uporablja knjinico. Tako delo samo po sebi ni iz knjinice izpeljano delo, in torej ni predmet te licence.

Vendar povezovanje delo, ki uporablja knjinico s knjinico naredi izvedljivo datoteko, ki je izpeljanka te knjinice (ker vsebuje dele knjinice), in ne delo, ki uporablja knjinico. Izvedljiva datoteka je torej pokrita s to licenco. Pogoje razirjanja taknih programov doloa razdelek 6.

e tako objektne datoteka uporablja le numerine parametre, podatkovne strukture in naine dostopa, in male makroukaze in male vkljuene funkcije (dolge deset vrstic ali manj), potem uporaba objektne datoteke ni omejena, ne glede na to, da je pravno gledano izpeljano delo. (Izvedljive datoteke, ki vsebujemo objektno kodo in dele knjinice, e vedno sodijo pod razdelek 6.)

je sicer delo izpeljano iz knjinice, lahko razirjate izvorno kodo dela pod pogojem razdelka 6 ali izboljšajte delo, ki vsebuje dele knjinice, in razirjate to delo pod pogoji po vseki izbiri.

Kot izjemo glede na zgornje razdelke lahko tudi kombinirate ali povezujete delo, ki uporablja knjinico s knjinico, ki izdela delo, ki vsebuje dele knjinice, in razirjate to delo pod pogoji po vseki izbiri, e ti pogoji dovoljujejo spreminjanje dela za uporabnikovo lastno rabo in obratni ineniring za razhroevanje taknih spreminj.
Poleg vsakega izvoda dela morate dodati jasno obvestilo, da delo uporablja knjinsico in da rabo knjinsice doloa ta licenca. Oddati morate tudi izvod te licence. e delo med izvajanjem izpisuje pravice razriranja, morate med njimi vkljuti tudi sporilo o pravicah razriranja za knjinsico, kot tudi sklic, ki usmerja uporabnika na izvod te licence. Narediti morate tudi eno od teh stvari: <orderedlist numeration="loweralpha">

<li id="sect6a">Opremite delo s popolno ustrezno strojno berljivo izvorno kodo za knjinsico, vkljuno z vsemi spremembami v tem delu (ki mora biti razirjano pod pogoji zgornjih razdelkov <link linkend="sect1">1</link> in <link linkend="sect2">2</link>); in, e delo ni izvedljivo povezano s knjinsico, popolno strojno berljivo <quote>delo, ki uporablja knjinsico</quote>, kot objektno kodo in/ali izvorno kodo, tako da lahko uporabnik spremeni knjinsico in potem vnovi pove program, da izdela spremenjeno izvedljivo datoteko, ki vsebuje spremenjeno knjinsico. (Razume se, da uporabnik, ki spremeni vsebino definicijskih datotek v knjinsici, morda ne bo mogel vnovi prevesti programa, da bi uporabil spremenjene definicije.) </li>

<li>Za povezovanje s knjinsico uporabite primeren mehanizem deljenih knjinic. Primeren mehanizem (1) ob teku uporablja izvod programa, ki e obstaja v uporabnikovem raunalnikem sistemu, namesto, da bi prepisal knjinine funkcije v samo izvedljivo datoteko, in (2) pravilno deluje s spremenjeno razliico knjinice, e jo uporabnik namesti, e je le vmesnik spremenjene razliice zdrujiv z razliico, za katero je bilo delo izdelano.</li>

<li>Opremite delo s pisno ponudbo, veljavno vsaj tri leta, ki ponuja istemu uporabniku gradiva, doloena v zgornjem <link linkend="sect6a">podrazdelku 6a</link>, proti plailu zneska, ki ne presega dejanskih strokov taknega razriranja. </li>

<li>e se razrirjanje dela izvede s ponujenim dostopom do izvoda z doloenega mesta, potem ponujanje ekvivalentnega dostopa za razmnoevanje zgoraj navedenih gradiv z istega mesta teje kot razrirjanje izvorne kode.</li>

<li>Preverite, da je uporabnik e prejel izvod teh gradiv ali da ste temu uporabniku izvod e poslali.</li>

</orderedlist></para>

Pri izvedljivem delu mora zahtevana oblika <quote>dela, ki uporablja knjinsico</quote> vkljuevati vse podatke in pomone programe, potrebne za ponovno izdelavo izvedljive datoteke iz nje. Vendar - kot posebna izjema - ni nujno, da razirjano gradivo vkljuje vse, kar se navadno razirja (v izvorni ali strojni obliki) z vejimi komponentami (prevajalnik, jedro, itn.) operacijskega sistema, na katerem tee izvedljiva datoteka, razen e ta komponenta spremija izvedljivo datoteko.</li>

Lahko se zgodi, da te zahteve nasprotujejo licenčnim omejitvam drugih lastnikih knjinic, ki navadno ne spremljajo operacijskega sistema. Takno nasprotovanje pomeni, da jih ne morete uporablji hkrati s knjinsico v izvedljivi datoteki, ki jo boste razirjali.
Dele knjine, ki so dela, temelje na Knjiniči, lahko uvrstite v skupno knjino z drugimi deli knjine, ki jih ta Licenca ne pokriva, ter razirjate takno kombinirano knjino, e je sicer dovoljeno loeno razirjati Knjino in druge dele knjine, in e naredite naslednji stvari:

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2. Poleg kombinirane knjic podajte vidno obvestilo, da deli knjine temeljijo na Knjiniči, in pojasnite, kje najti ustrezeno nekombinirano obliko istega dela.

Knjine ni dovoljeno razmnoevati, spreminjati, podrejati dovoljenja, jo povezovati ali razirjati, e to ni izrecno dovoljeno s priujoim dovoljenjem. Vsak sicerjev poskus razmnoevanja, spreminjanja, podrejanja dovoljenja, povezovanja ali razirjanja knjine je nien in vam samodejno odvzame pravice, izhajajoč iz tega dovoljenja. Vendar pa se osebam, ki so svoj izvod ali pravice dobile od vas pod tem dovoljenjem, dovoljenje ne prekine, dokler jo v celoti spotujejo.

Ni vam treba sprejeti pogojev dovoljenja, saj ga niste podpisali. Vendar vam brez slednjega ni ne dovoljuje spreminjanja ali razirjanja knjine ali iz nje izpeljenih del, e ne sprejmete tega dovoljenja, so ta dejanja nezakonita. Torej, s spremembo ali razirjanjem knjine (ali kateregakoli dela, ki temelji na knjiniči) pokaete svoje strinjanje s tem dovoljenjem in z vsemi njegovimi doloili in pogoji za razmnoevanje, razirjanje ali spreminjanje knjine ali del, ki temeljijo na njej.

Vsaki, ko razirjate knjino (ali katerokoli delo, ki temelji na knjiniči), prejemnik samodejno prejme dovoljenje izvornega izdajatelja dovoljenja (angl. original licensor) za razmnoevanje, razirjanje, povezovanje ali spreminjanje knjine glede na ta doloila in pogoje. Ni dovoljeno vsiljevati nobenih nadaljnjih omejitev izvajanja prejemnikovih pravic, podeljenih tukaj. Niste odgovorni za vsiljevanje strinjanja tretjih oseb s tem dovoljenjem.
<title>Razdelek 11</title>

<para>e so vam, kot posledica presoje sodia ali suma kritve patenta ali iz kateregakoli drugega razloga (ne omejenega zgolj na patentna vpraanja), vsiljeni pogoji (bodisi z odlkom sodia, sporazumom ali drugim), ki nasprotujejo pogojem tega dovoljenja, vas ne odvezujejo spotovanja pogojev tega dovoljenja. e knjigice ne morete razirjati tako, da hrkati zadositite svojim obvezam pod tem dovoljenjem in vsem drugim ustreznim obvezam, potem posledino sploh ne smete razirjati knjigice. Na primer, e patentno dovoljenje ne dovoli razirjanja knjigice brez plačavanj avtorskega honorarja vseh, ki prejmejo izvode neposredno ali posredno od vas, potem je edina mona pot, da zadosite temu pogoju in temu dovoljenju, ta, da se v celoti vzdržite razirjanja knjigice. </para>

<para>e se za katerikoli del tega razdelka ugotovi, da je neveljaven ali da ga ni mogoe izvajati pod nobenim dolonim pogojem, je miljeno, da velja usmeritev tega razdelka (angl. balance of the section) in razdelek kot celota velja v drugih primerih. </para>

<para>Namen tega razdelka ni, da bi vas napeljeval h kritvi patentov ali drugih trditev lastnika pravic ali izpodbijal veljavnost katerihkoli taknih trditev; edini namen tega razdelka je itenje integritete sistema razirjanja proste programske opreme, ki je izveden s prakso javnih dovoljenj. Mnogi ljudje so radodarno prispevali k irokemu naboru programske opreme, razirjane preko tega sistema, v upanju na njegovo dosledno izvajanje; od avtorja/dajalca je odvisno, e je pripravljen razirjati programje skozi katerikoli drug sistem, in izdajatelj dovoljenja ne more vsiljevati te izbire. </para>

<para>Ta razdelek namerava temeljito pojasniti kaj so predvidene posledice preostalega besedila dovoljenja.</para>
</sect2>

<sect2 id="sect12" label="12">
<title>Razdelek 12</title>

<para>e sta razirjanje in/ali uporaba knjigice v dolonih dravah omejena, bodisi zaradi patentov ali avtorsko zaintenih vmesnikov, lahko izvorni lastnik ali lastnica avtorskih pravic, ki postavlja knjigico pod to dovoljenje, doda izrecno zemljepisno omejitev razirjanja, ki izkljuuje te drave, tako da je razirjanje dovoljeno le v in med dravami, ki niso na tak nain izkljuene. V takem primeru to dovoljenje vkljuuje omejitev, kot da so zapisane v besedilu tega dovoljenja.</para>

<sect2 id="sect13" label="13">
<title>Razdelek 13</title>

<para>Ustanova Free Software Foundation lahko od asa do asa izdaja preurejene in/ali nove razliice Manj splonega dovoljenja (angl. Lesser General Public License). Nove razliice bodo pisane v duhu trenutne razliice, vendar se lahko razlikujejo v podrobnostih, ki bodo obravnavale nove teave ali poglede.</para>

<para>Vsaki razliici je doloena razloevalna tevilka razliice. e knjigica doloa tevilko razliice tega dovoljenja, ki se nanaa nanjo in <quote>na katero koli poznejo razliico</quote>, imate izbilo upotevance pogojev in doilo bodisi te razliice ali poljubne kasnje razliice, ki jo je izdala ustanova Free Software Foundation. e knjigica ne doloa tevilke razliice tega dovoljenja, lahko izberete poljubno razliico, ki jo je kdajkoli izdala ustanova Free Software Foundation.</para>
</sect2>
Razdelek 14

e elite vključiti dele knjino v drugo prosto programsko opremo, katere pogoj razirjanja so drugani od teh, piite avtorju in ga prosite za dovoljenje. Za programje, katerega pravice razirjanja ima Free Software Foundation, piite na Free Software Foundation; vasih pri tem naredimo izjemo. Nao odloitev bosta vodila dva cilja: ohranitev prostega statusa vseh izvedenih del iz nae proste programske opreme in spodbujanje razdeljevanja in ponovne uporabe programja na splono.</p>

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</li>
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</li>
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</li>
</orderedlist>

<note>
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</listitem>

</listitem>

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</listitem>

</listitem>

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</itemizedlist>


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</sect1>

<sect1 id="fdl-section5" label="5">

<title>czenie dokumentw</title>

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Dessa licensvillkor gller varje programvara eller annat verk som innehaller en hänvisning till dessa villkor eller upphovsrtsinnehavaren stadgat att programvaran kan distribueras enligt [General Public License] dessa villkor. PROGRAMVARAN enligt nedan syftar p varje programvara eller verk och VERK baserat på PROGRAMVARAN syftar p antingen Programvaran eller p derivativa verk, som ett verk som innehller Programvaran eller en del av Programvaran, antingen en exakt kopia eller en ndrad kopia och/eller versatt till ett annat språk. (Verstningar ingår nedan utan begränsningar i begreppet PROGRAMVARAN.) Varje licenstagare benmns som DU.

gråder utom kopiering, distribution och ndringar tcks inte av dessa licensvillkor. Användningen av PROGRAMVARAN r inte begränsad och resultatet av användningen av PROGRAMVARAN tcks endast av dessa licensvillkor om resultatet utgr ett VERK baserat på PROGRAMVARAN (oberoende av att det skapats av att programmet krets). Det beror p
Du ger kopiera och distribuera exakta kopior av Programvarans källkod som du mottog den, i alla medier, frutsatt att Du tydligt och p ett skligt stt p varje exemplar fster en riktig upphovsrättsklausul och garantivägelse, vidhåller alla huvudsakliga till dessa licensvillkor och till alla garantivägelser samt att till alla mottagaren av Programvaran ge en kopia av dessa licensvillkor tillsammans med Programvaran.


Du ger ndra ditt exemplar eller andra kopior av Programvaran eller ngon del av Programvaran och drmed skapa ett Verk baserat p Programvaran, samt att kopiera och distribuera sdn frndrade versioner av Programvaran eller verk enligt villkoren i paragraf 1 ovan, frutsatt att du ocks uppfyller fljande villkor: 

Du tillsr att de frndrade filerna har ett tydligt meddelande som berttar att Du ndrat filerna samt vilket datum dessa ndringar gjordes.

Du tillsr att alla verk som du distribuerar eller offentliggr som till en del eller i sin helhet innehller eller r hrlett frn Programvaran eller en del av Programvaran, licensieras i sin helhet, utan kostnad till tredje man enligt dessa licensvillkor.

Du tillsr att det frndrade verket i dess helhet. Om identifierbara delar av verket inte hrrr frn Programvaran och skilgen kan anses vara fristende och sjlvstndiga verk i sig, d skall dessa licensvillkor inte glla i de delarna nt de distribueras som egna verk. Men om samma delar distribueras tillsammans med en helhet som innehller verk som hrrr frn Programvaran, mste distributionen i sin helhet skligen dessa licensvillkor.

Licensvillkoren skll i sdant fall glla fr andra licenstagare fr hela verket och slunda till alla delar av Programvaran,
Den hr paragrafen skall slunda inte tolkas som att ansprk grs p rttigheter eller att ifrgastta Dina rttigheter till programvara som skrivits helt av Dig. Syftet r att tillsa att kontrollera distributionen av derivativa eller samlingsverk av Programvaran.

Frekomsten av ett annat verk p ett lagringsmedium eller samlingsmedium som innehller Programvaran eller Verk baserat p Programvaran leder inte till att det andra verket omfattas av dessa licensvillkor.

Du ger kopiera och distribuera Programvaran (eller Verk baserat p Programvaran enligt paragraf 2) i objektkod eller i kbbar form enligt villkoren i paragraf 1 och 2 frutsatt att Du ocks gr en av fljande saker: 

Bifogar den kompletta kllkoden i maskinlsbar form, som mste distribueras enligt villkoren i paragraf 1 och 2 p ett medium som i allmhnt anvnds fr utbyte av programvara, eller

Du ger kopiera och distribuera Programvaran (eller Verk baserat p Programvaran enligt paragraf 2) i objektkod eller i kbbar form enligt villkoren i paragraf 1 och 2 frutsatt att Du ocks gr en av fljande saker: 

Bifogar den kompletta kllkoden i maskinlsbar form, som mste distribueras enligt villkoren i paragraf 1 och 2 p ett medium som i allmhnt anvnds fr utbyte av programvara, eller

Bifogar ett skriftligt erbjudande, med minst tre rs giltighet, att ge tredje man, mot en avgift som hgst uppgr till Din kostnad att utfra fysisk distribution, en fullstndig kopia av kllkoden i maskinlsbar form, distribuerad enligt villkoren i paragraf 1 och 2 p ett medium som i allmhnt anvnds fr utbyte av programvara, eller

Bifogar ett skriftligt erbjudande Du fick att erhlla kllkoden. (Det hr alternativet kan endast anvandas fr icle-kommersiell distribution och endast om Du erhllit ett program i objektkod eller kbbar form med ett erbjudande i enlighet med b ovan.)


Om distributionen av kbbar Programvara eller objektkod grs genom att erbjuda tillgng till att kopiera frn en bestnd plats, d skall motsvarande tillgng till att kopiera kllkoden frn samma plats rnas som distribution av kllkoden, ven om tredje man inte behver kopiera kllkoden tillsammans med objektkoden.
Du ger inte kopiera, ndra, licensiera eller distribuera Programvaran utom p dessa licensvillkor. All vrig kopiering, ndringar, licensiering eller distribution av Programvaran r ogiltig och kommer automatiskt medfran att Du frlrar Dina rttigheter enligt dessa licensvillkor. Tredje man som har mottagit kopior eller rttigheter frn Dig enligt dessa licensvillkor kommer dock inte att frlrora sina rttigheter sligen de fljer licensvillkoren.</para>


Var gng du distribuerar Programvaran (eller Verk baserat p Programvaran), kommer mottagaren per automatik att f en licens frn den frsta licensgivaren att kopiera, distribuera eller ndra Programvaran enligt dessa licensvillkor. Du ger inte lgga mottagaren ngra andra restriktioner n de som fljer av licensvillkoren. Du r inte skyldig att tillse att tredje man fljer licensvillkoren.

Om Du p grund av domstolsdom eller anklagelse om patentintrng eller p grund av annan anledning (ej begrnsat till patentfrgor), Du fr villkor (oavsett om de kommer via domstols dom, avtal eller p annat stt) som strider mot dessa licensvillkor frntar de inte Dina frpliktelser enligt dessa licensvillkor. Om du inte kan distribuera Programvaran och samtidigt uppfylla licensvillkor och andra skyldigheter, fr du som en konsekvens inte distribuera Programvaran. Om exempelvis ett patent gr att Du inte distribuera Programvaran fritt till alla de som mottager kopior direkt eller indirekt frn Dig, s mste Du helt sluta distribuera Programvaran.

Om delar av den hr paragrafen frklaras ogiltig eller annars inte kan verkstllas skall resten av paragrafen ga fortsatt giltighet och paragrafen i sin helhet ga fortsatt giltighet i andra sammanhang.

Syftet med den hr paragrafen r inte att frm Dig att beg patentintrng eller att beg intrng i andra rttigheter eller att frm Dig att bestrida giltigheten i sdana rttigheter. Den hr paragrafen har ett enda syfte, vilket r att skydda distributionssystemet fr fri programvara vilket grs genom anvndandet av dessa licensvillkor. Mnga har bidragit till det stora utbudet av programvara som distribueras med hjlp av dessa licensvillkor och den fortsatta giltigheten och anvndningen av det hr systemet, men det r upphovsmannen sjlv som mste besluta om han eller hon vill distribuera Programvaran genom det hr systemet eller ett annat och en licenstagare kan inte tvinga en upphovsman till ett annat beslut.

Den hr paragrafen har till syfte att stlla det utom tvivel vad som anses flja av resten av dessa
licensvillkor.</para>
</sect2>

<sect2 id="sect8" label="8">
<title>Paragraf 8</title>

<para>Om distributionen och/eller anvandningen av Programvaran r begrnsad i vissa lnder p grund av patent eller upphovsrtsligt skyddade gnsnitt kan upphovsmannen till Programvaran lgra till en geografisk spridningsklausul, enligt vilken distribution r tillten i lnder frutom dem i vilket det r frbjudet. Om s r fallet kommer begrnsningen att utgrna en fullvrdig del av licensvillkoren.</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Paragraf 9</title>

<para>The Free Software Foundation kan offentliggra ndrade och/eller nya versioner av the General Public License frn tid till annan. Sdana nya versioner kommer i sin helhet att pminna om nuvarande version av the General Public License, men kan vara ndrade i detaljer fr att behandla nya problem eller gra nya vervganden.</para>

<para>Varje version ges ett rskiljande versionsnummer. Om Programvaran specificerar ett versionsnummer av licensvillkoren samt enligt vilken distribution r tillten i lnder frutom dem i vilket det r frbjudet. Om s r fallet kommer begrnsningen att utgrna en fullvrdig del av licensvillkoren.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Paragraf 10</title>

<para>Om du vill anvnda delar av Programvaran i annan fri programvara som distribueras enligt andra licensvillkor, begr tillstnd frn upphovsmannen. Fr Programvaran var upphovsrts innehas av Free Software Foundation, skriv till Free Software Foundation, vi gr ibland undantag fr det hr. Vrt beslut grundas p vra tv ml att bibehlla den fria statusen av alla verk som hrleds frn vr Programvara och frmtrandet av att dela med sig av och teranvnda programvara i allmnhet.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>INGEN GARANTI</title>

<subtitle>Paragraf 11</subtitle>

<para>D DENNA PROGRAMVARA LICENSIERAS UTAN KOSTNAD GES INGEN GARANTI FR PROGRAMMET, UTOM SDAN GARANTI SOM MSTE GES ENLIGT TILLMLPLIG LAG. FRUTOM D DET UTTRYCKS I SKRIFT TILLHANDAHILLER UPPHOVSRRTSINNEHAVAREN OCH/ELLER ANDRA PARTER PROGRAMMET I BEFINLIGT SKICK AS IS UTAN GARANTIER AV NGRA SLAG, VARKEN UTTRYCKLIGA ELLER UNDERFRSTDDA, INKLUSIVE, MEN INTE BEGRNSAT TILL, UNDERFRSTDDA GARANTIER VID KP OCH LMLPLIGET FR ETT SRSKILT NDAML. HELA RISKEN FR KVALITET OCH ANVNDBARHET BRS AV DIG. OM PROGRAMMET SKULLE VISA SIG HA DEFEKTER SKALL DU BRA ALLA KOSTNADER FR FELETS AVHJLPANDE,
PARAGRAPF 12

INTE I NGOT FALL, UTOM NR DET GLLER ENLIGT TILLMPLIG LAG ELLER NR DET VERENSKOMMITS SKRIFTLIGEN, SKALL EN UPPOHSVRSRTTSINNEHAVARE ELLER ANNAN PART SOM GER NDRA OCH/ELLER DISTRIBUTUERA PROGRAMVARAN ENLIGT OVAN, VARA SKYLDIG UTGE ERSTTTNING FR SKADA DU LIDER, INKLUSIVE ALLMN, DIREKT ELLER INDIREKT SKADA SOM FLJER P GRUND AV ANVNDNING ELLER OMJLIGHET ATT ANVNDA PROGRAMVARAN (INKLUSIVE MEN INTE BEGRNSAT TILL FRLUST AV DATA OCH INFORMATION ELLER DATA OCH INFORMATION SOM FRAMSTLLTS FELAKTIGT AV DIG ELLER TREDJE PART ELLER FEL DR PROGRAMMET INTE KUNNAT KRAS SAMTIDIGT MED ANNAN PROGRAMVARA), VEN OM EN SDAN UPPOHSVRSRTTSINNEHAVAREN ELLER ANNAN PART UPPLYSTS OM MJLIGHETEN TILL SDAN SKADA.
We call this license the <quote>Lesser</quote> General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License.
for many libraries. However, the Lesser license provides advantages in certain special circumstances.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a work based on the library and a work that uses the library. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of
<i>Section 1</i> above, provided that
you also meet all of these conditions:

<ol>
<li>The modified work must itself be a software library.</li>
<li>You must cause the files modified to carry prominent notices
    stating that you changed the files and the date of any change.</li>
<li>You must cause the whole of the work to be licensed at no
    charge to all third parties under the terms of this License.</li>
<li>If a facility in the modified Library refers to a function or a
    table of data to be supplied by an application program that uses
    the facility, other than as an argument passed when the facility
    is invoked, then you must make a good faith effort to ensure that,
    in the event an application does not supply such function or
    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.</li>
<li>(For example, a function in a library to compute square roots has
    a purpose that is entirely well-defined independent of the
    application. Therefore, Subsection 2d requires that any
    application-supplied function or table used by this function must
    be optional: if the application does not supply it, the square
    root function must still compute square roots.)</li>
<li>These requirements apply to the modified work as a whole. If
    identifiable sections of that work are not derived from the Library,
    and can be reasonably considered independent and separate works in
    themselves, then this License, and its terms, do not apply to those
    </li>
</ol>
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.
</para>

<para>
Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.
</para>

<para>
In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this License.
</para>
</listitem>
</orderedlist>
</sect2>

<sect2 id="sect3" label="3">
<title>3</title>

<para>GNU . ' 2 GNU ( ). .</para>

<para>, , GNU.</para>

<para>, .</para>
</sect2>

<sect2 id="sect4" label="4">
<title>4</title>

<para>( , <link linkend="sect2">2</link>) ' <link linkend="sect1">1</link> <link linkend="sect2">2</link> , , <link linkend="sect1">1</link> <link linkend="sect2">2</link>, .</para>

<para>' , , ' .</para>
</sect2>
As an exception to the Sections above, you may also combine or link a work that uses the Library with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

1. Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and
2. (Optional) Replacing or adding missing parts of the Library.

It is

understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the work that uses the Library must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the executable.

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<sect2 id="sect7" label="7">
<title> 7</title>

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<orderedlist numeration="loweralpha">
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</orderedlist>

</sect2>

<sect2 id="sect8" label="8">
<title> 8</title>

<para> . , , , , , , , , , , , , .</para>

</sect2>

<sect2 id="sect9" label="9">
<title> 9</title>

<para> , , , , , , , , , , , , .</para>

</sect2>

<sect2 id="sect10" label="10">
<title> 10</title>

<para> , , , , , , , , , , , , .</para>

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<sect2 id="sect11" label="11">
<title> 11</title>

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</sect2>
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Vi har utformat denna licens för att den skall användas för handboken till fri programvara, eftersom fri programvara behöver fri dokumentation: ett fritt program bräda en handbok som erbjuder samma friheter som programmet gr. Men denna licens r inte begränsad till programvaruhandboken; den kan användas för vilket textverk som helst oavsett mne eller huruvida det r en utgiven, tryckt bok. Vi rekommenderar denna licens huvudsakligen för alla verk vars syfte r instruktion eller referens./para>

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En <quote>frändrad version</quote> av dokumentet avser varje verk som innehåller dokumentet eller en del av det, antingen ordagranna kopior, eller med nödvändiga och eller versat till ett annat sprk.<para>

Ett <quote>sekundära avsnitt</quote> är en märkt bilaga eller frord till <link dldocument>frändrad version</link> som exklusivt behållar frågorna eller fråfragare och dokumentets huvudsakliga mne (eller till relaterade mnen) och som inte innehåller något som direkt faller under det huvudsakliga mnet. (Sledes, om dokumentet delvis r en lrobok i matematik s fr ett sekundära avsnitt inte frklara någon matematik.) Frågorna kan vara en historisk koppling till mnet eller något relat, eller en juridisk, kommersiell, filosofisk, etisk eller politisk stillning till det.<para>

De <quote>ofränderliga avsnitten</quote> är <link dldocument>sekunda avsnitt</link> vars titlar r angivna som ofränderliga avsnitt i meddelandet som stadgar att <link dldocument>frändrad version</link> utgivet under denna licens [det engelska originalet].<para>

Omslagstexterna</quote> är speciella korta ordflyder som r listade som fransidestexter eller baksidestexter i meddelandet som stadgar att <link dldocument>frändrad version</link> utgivet under denna licens [det engelska originalet].<para>

En <quote>transparent</quote> kopia av <link dldocument>frändrad version</link> är en maskinläsbar kopier, representerad i ett format vars specifikation finns tillgänglig fr allmänheten, som impar sig fr att revidera dokumentet p ett enkelt stt med generella textredigeringsprogram eller (fr pixelbaserade bilder) generella grafikprogram eller (fr ritningar) något vil tillgängligt ritprogram, och som r passande som indata till textformaterare eller fr automatisk konvertering till en mngd format som passar som indata till textformaterare. En kopier i ett fr vrigt transparent filformat vars markerings, eller avskakad av markerings, har ordnat fr att hindra eller motverka att vidare frändring vidtas av lsare r inte transparent. Ett bildformat r inte transparent om det anvnds fr någon betydande del text. En kopier som inte r <quote>transparent</quote> kallas <quote>opak</quote>.<para>

Exempel på passande format fr transparenta kopier innefattar ren ASCII utan markerings, Texinfo indatiformat, LaTeX indatiformat, SGML eller XML som använder en publikt tillgänglig DTD, och standarden HTML, PostScript eller PDF utformat fr mnsklig frändring. Exempel på transparenta bildformat innefattar PNG, XCF och JPG. Opaka format innefattar leverantörsstora format som bara kan lasas och editeras med leverantörsstora
ordbehandlare, SGML eller XML fr vilket DTD och/eller verktyg fr behandling inte finns allmnt tillgngliga, och den maskingenerade HTML, PostScript eller PDF som produceras av vissa ordbehandlare enbart avsett som utdata.</para>

<para id="fdl-title-page"><quote>Titelsidan</quote> innebr, fr en tryckt bok, titelsidan sjlv, och sdana drp fljande sidor som krvs fr att gra det material som enligt denna licens skall synas p titelsidan lsbart. Fr verk i sdana format som inte har ngn egentlig titelsida, avses med <quote>titelsida</quote> den text som r nmast den mest framstende frekomensten av verkets titel, fregende den huvudsakliga textmassan.</para>

</sect1>

<sect1 id="fdl-section2" label="2">
<title>ORDAGRANN KOPIERING</title>
<para>Du ger kopiera och sprida <link linkend="fdl-document">dokumentet</link> p valfritt medium, aningen kommersiellt eller ideellt, frutsatt att denna licens [det engelska originalet], upphovsrtsklausul, och meddelandet som stadgar att GNU Free Documentation License gller p dokumentet finns med p alla kopior, och att du inte lgger till nga som helst andra villkor n de som ingr i denna licens. Du ger inte vidta tekniska tgrder fr att begrnsa eller kontrollera lsande eller vidare kopiering av de kopior du skapar eller sprider. Dock ger du ta emot kompensation i utbyte mot kopior. Om du sprider tillreftligt mga kopior mste du ocks flja villkoren i <link linkend="fdl-section3">paragraf 3</link>.</para>

<para>Du ger ocks lna ut kopior, under samma villkor som ovan, och du ger visa kopior offentligt.</para>

</sect1>

<sect1 id="fdl-section3" label="3">
<title>OMFATTANDE KOPIERING</title>
<para>Om du publicerar tryckta kopior (eller kopior i medier som normalt har tryckta omslag) av <link linkend="fdl-document">dokumentet</link>, i en upplaga verstigande 100 exemplar, och dokumentets licensmeddelande krver <link linkend="fdl-cover-texts">omslagstexter</link>, s mste du frse kopiorna med omslag som, klart och tydligt, visar alla omslagstexter: framsidestexter p framsidan och baksidestexter p baksidan. Bda omslagen mste klart och tydligt identifiera dig som utgivare av dessa kopior. Framsidan mste presentera dokumentets hela titel, med alla ord i titeln lika framtrdande och synliga. Du ger lgga till ytterligare stoff p omslagen. Kopiering med frndringar gjorda bara p omslaget, s lnga som de bevarar <link linkend="fdl-document">dokumentets</link> titel och i vrigt uppfyller dessa krav kan anses vara ordagrann kopiering i andra avseenden.</para>

<para>Om de obligatoriska texterna fr ngot omslag r fr omfattande fr att rymmas i lsbart skick skall du placera de frsta (s mga som fr plats) p det egentliga omslaget, och fortstta med resten p de direkt intilliggande sidorna.</para>

<para>Om du publicerar <link linkend="fdl-transparent">opaka</link> kopior av <link linkend="fdl-document">dokumentet</link> i upplagor om mer n 100, mste du antingen bifoga en maskinlsbar <link linkend="fdl-transparent">transparent</link> kopia med varje opak kopia, eller ange i eller med varje opak kopia en nterverksadress som r tillgnglig fr den allmna nterverksamvndande massan dr man, med ppet standardiserade protokoll, kan ladda ner en komplett transparent kopia av dokumentet, utan extra material. Om du vljer det senare alternativet, mste du vidta skliga tgrder, nr du brjar sprida opaka kopior i kvantitet, fr att denna transparenta kopia skall frbli tillgnglig p angivna platsen till tminstone ett r efter den sista gngen du spred en opak kopia (direkt eller via ombud eller terfsljare) av den utgvan till allmheten.</para>

<para>Det r nskvrt, men inte ett krav, att du kontaktar frfattarna till <link linkend="fdl-
document</link> dokumentet</link> i god tid innan du sprider nogt stre antal kopior, fr att ge dem en chans att frse dig med en uppdaterad version av dokumentet.</para>
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<itemizedlist mark="upper-alpha">
<li>
<para>P <link linkend="fdl-title-page">titelsidan</link> (och omslagen om det finns ngra) anvnda en titel skild frn den som [original]<link linkend="fdl-document">dokumentet</link> har, och skild frn tidigare versioners titel (som skall, om det finns ngra, finnas listade i historikavsnittet i dokumentet). Du ger anvnda samma titel som det fregende dokumentet om den ursprungliga utgivaren ger sitt tillstnd.</para>
</liitem>
<li>
<para>Lista p <link linkend="fdl-title-page">titelsidan</link>, som frfattare, en eller flera personer eller juridiska personer som ansvarat fr frndringarna i den <link linkend="fdl-modified">frndrade versionen</link>, tillsammans med minst fem av de huvudsakliga frfattarna av <link linkend="fdl-document">dokumentet</link> (alla dess huvudsakliga frfattare, om det har mindre n fem).</para>
</liitem>
<li>
<para>Ange namnet p utgivaren av den <link linkend="fdl-modified">frndrade versionen</link>, som utgivare, p <link linkend="fdl-title-page">titelsidan</link>.</para>
</liitem>
<li>
<para>Bibehilla <link linkend="fdl-document">dokumentets</link> alla upphovsrtsklausuler.</para>
</liitem>
<li>
<para>Lgga till en upphovsrtsklausul fr dina frndringar angrnsande till de andra upphovsrtsklausulerna.</para>
</liitem>
<li>
<para>Direkt efter upphovsrtsklausulerna innefatta ett meddelande som ger allmheten tillstnd att anvnda den <link linkend="fdl-modified">frndrade versionen</link> under villkoren i denna licens [det engelska originalet] i den form som visas i Tillgg nedan.</para>
</liitem>
</itemizedlist>
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</listitem>

</listitem>

<para>Inkludera en ofrundrad kopia av denna licens [Det r den engelska originalversionen som avses].</para>

</listitem>

</listitem>

<para>Bevara avsnittet med titeln <quote>historik</quote> (History), bevara dess titel och lgg i avsnittet till en post med minstentiteln, ret, nya frfattare och utgivaren av den <link linkend="fdl-modified">frndrade versionen</link> s som angivet p <link linkend="fdl-title-page">titelsidan</link>. Om det inte finns ngt avsnitt med titeln <quote>historik</quote> (History) i <link linkend="fdl-document">dokumentet</link> s skapa en med titeln, ret, frfattare och utgivaren av dokumentet s som det str p [original]dokumentets titelsida. Lgg sedan till en post som beskriver den frndrade versionen s som beskrivits ovan.</para>

</listitem>

</listitem>

<para>Bevara den ntverksadress, om det finns ngt, angiven i <link linkend="fdl-document">dokumentet</link> till den allmt tillgngliga <link linkend="fdl-transparent">transparenta</link> kopian av dokumentet, och likas ntverksadresserna till de fregende versioner som dokumentet baseras p. Dessa fr placeras i avsnittet <quote>historik</quote> (History). Du ger utelma en ntverksadress fr ett verk som r publicerat mer n fyra r fre dokumentet sjlvt, eller om den ursprunglige utgivaren vars verk ntverksadressen hnvisar till ger sitt tillstnd.</para>

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<para>Radera varje avsnitt med titeln <quote>endossering</quote> (Endorsements). Ett sdant avsnitt fr inte inkluderas i en <link linkend="fdl-modified">frndrad version</link>.</para>

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Om ditt dokument innehller icke-triviala exempel med programkod, s rekommenderar vi att du slipper dessa exempel parallellt under en, av dig vald, fri programvarulicens, som till exempel url="http://www.gnu.org/copyleft/gpl.html" GNU General Public License, fr att mjliggra deras anvndning i fri programvara.
Giy php Cng Cng Ph GNU

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Mi ngi u uc quyn sao chp v phn phi nguyn vn ti liu giy php ny, nhng khng khng c php thay i n.

Phin bn 2.1, thng 2/1999

Giy php s dng ca hu ht cc phn mm c thit k bn khng c t do chia s v thay i phn mm . Tri li, cc Giy php Cng cng GNU d nh m bo cho bn c t do chia s v thay i phn mm mt cch t do, v m bo phn mm t do cho mi ngi s dng.

Giy php Cng cng GNU ca chng
ti c thit k m bo bn c quyn t do pht hnh bn sao ca phn mm t do (v thu tin dch v ny nu mun), nhn m ngun hoc c kh ng
ly n nu bn mun, bn c th thay i phn mm hay s dng bt k on no ca n trong chng trnh t do mi; v gip bn bit r l bn c th lm
nhng iu ny. </para>

<para>Giy php ny, Giy php Cng cng Ph, p dng cho mt s gi phn mm ch r c bit thng th vin ca T che Phn mm T do
v cc tc gi khc chn s dng n. Bn cng c th s dng n, nhng trc tin ngh bn ngh cn thn nu giy php ny hay Giy php Cng cng
chun l chin le tt hn trong trng hp ring no, da vo cc li gi th ch bn di. </para>

<para>Khi chng ti ni v phn mm t do, chng ti cp n s t do s dng, ch khng phi l gi c. Cc Giy php Cng cng ca chng ti c
thit k m bo bn c quyn t do pht hnh bn sao ca phn mm t do (v thu tin dch v ny nu mun), nhn m ngun hoc c kh ng
ly n nu bn mun, bn c th thay i phn mm hay s dng bt k on no ca n trong chng trnh t do mi; v gip bn bit r l bn c th lm
nhng iu ny. </para>

<para>bo v quyn li ca bn, chng ti cn a ra nhng hn ch cm bt c ai ph nhn bn c nhng quyn ny hay i hi bn t b n. Nhng
s hn ch nh c hiu l mt s trch nhim nh thit ca bn nu bn pht hnh bn sao ca th vin hoc sa i n. </para>

<para>Chng hn, nu bn pht hnh bn sao ca th vin nh vy, d l cho khng hay thu tin, bn phi trao cho nghi nhn tt c nhng
quyn bn c. Bn phi che chn l h cng nhn c hay c th ly m ngun. Nu bn lin kt m ngun kch vi th vin, bn phi cung cp cc tp
tin i trng hon thnh cho nghi nhn, h th lin kt li tp tin nh vy vi th vin ri dch li. V bn cng phi cho h bit nhng iu kin
ny, h bit nhng quyn ca h. </para>

<para>Chng ti bo v quyn ca bn bn mg mt phng php hai bc: (1) chng ti bn quyn tc gi ca th vin, v (2) chng ti trao cho
bn giy php ny bn c quyn hp hp sao chp, pht hnh v/hay sa i th vin. </para>

<para>Hn na, bo v mi nghi pht hnh, chng ti mun che chn l mi nghi rng th vin t do ny khng c bo hnh. Nu th vin b
sa i bi nghi khc v c phn pht tip, chng ti mun nghi nhn bit rng ci m h c khng phi l bn gc, v vy, bt k li no do nghi khc gy ra
s khng lm mang ting n tc gi gc. </para>

<para>Cui cng, chng trnh t do no cng lun b e da bi bng sng ch phn mm. Chng ti mung che chn l cng ty khng th gii
hn c cc nghi dng chng trnh t do, bng cch ginh c giy php hn ch t nghi sng ch. V vy chng ti c nh th giy php sng ch no
c ginh cho mt phn bn ca th vin ny phi ph hp vi ton b quyn t do c ghi r trong giy php ny. </para>

<para>Phn ln phn mm GNU, gm c mt s th vin, c bao qut bi Giy php Cng cng GNU chun. Giy php ny, Giy php Cng
cng Ph GNU, p dng cho mt s th vin xcs nh: n rt khc vi Giy php Cng cng GNU chun. Chng ti s dng giy php ny cho mt
s th vin ring, cho ph php nhng lin kt th vin nh vy vo chng trnh khc t do. </para>

<para>Khi chng trnh c lin kt vi th vin, bt chp mt cch trnh hay bng th vin dng chung, s kt hp hai iu ny ni hp php l mt
sn phm kt hp, sn phm dn xut th vin ge. Giy php Cng cng GNU chun th cho phphp nhng lin kt nh vy ch nu ton b s kt
hp tho tiu chun quyn t do ca n. Giy php Cng cng Ph GNU cho php tiu chun lng lo hn lin kt m ngun khc vi th
vin. </para>

<para>Chng ti giy php ny Giy php Cng cng &lt;quote&gt;Ph&lt;/quote&gt; v n lm t bo v quyn t do ca nghi dng hn Giy php
Cng cng chun. N cng cung cp cho cc nh phtr tin phn mm t do t th li hn chng trnh khc t do cng trnh. Nhng nhc im ny
1 l do chng ti s dng Giy php Cng cng chun cho rt nh nh th vin. Tuy nhin, giy php Ph cung cp li ch trong mt s trng hp c
bit. </para>

<para>Chng hn, rt t ln c nh cu c bit h tr cch s dng rng ri nhjt c th mt th vin no, n tr thnh mt tiu chun nh th. t mc ch
ny, cc chng trnh khc t do cng phi c quyn s dng th vin. Mt trng hp xy ra nhu ln hn ln th vin t do lm cng mt cng vi vi
Trong trừng hp ny, khung c li ch nhiu khi gii hnh th vin t do trong ch phn mm t do, v th chng ti s dang Giy php Cng cng Ph.

Trong trừng hp khec, quyển s dang mt th vin no trong chng trnh khec t do cng kho rt nhiu ngi c kh nng s dang mt tp phn mm m t do rt ln. Chng hnh, quyển s dang Th vin C ca GNU trong cc chng trnh khec t do th kho rt nhiu ngi thm c kh nng s dang ton b h iu hnh GNU, cng nh bin th ca n, h iu hnh GNU/Linux.

Mc đ Giy php Cng cng Ph lm t hnh bo v quyển t do ca ngi dang, n c phi m bo rng ngi dang chng trnh c lin kt vi Th vin c quyển t do v kh nng chy chng trnh , bng mt phín bn sa i ca Th vin.

Trong trừng khc, quyn s dang mt th vin no trong chng trnh nhc t do rt nhiu ngi c kh nng s dang mt phn mm m t do rt ln. Chng hnh, quyển s dang Th vin C ca GNU trong cc chng trnh khec t do th kho rt nhiu ngi thm c kh nng s dang ton b h iu hnh GNU, cng nh bin th ca n, h iu hnh GNU/Linux.

Theo y c nhng iu kin chnh xc sao chp, phí hnh v sa i. Hy tp trung cn thn s khc bit gia mt sn phm da vo th vin v mt sn phm s dang th vin. iu tre cha m bt ngun t th vin, cn iu sau phi c kt hp vi th vin chy c.

IU KIN SAO CHP, PHT HNH V SA I

Mt <quote>th vin</quote> ngha l mt tp hp cc hm phn mm v/hay d liu c chun b c lin kt tin li vi chng trnh ng dang (m s dang mt s hm v d liu trong tp hp ny) xy dang tp tin c kh nng thc hin.

Mt <quote>sn phm</quote> da trn Th vin</quote> c ngha l Th vin hay bt k sn phm no bt ngun t n di lut bn quyển: tc l, sn phm cha Th vin hay mt phn ca n, hoc ng nguyễn vn hoc vi sa i v/hoc c dch sang mt ngn ngk. (K t cu ny, vic dch ngn ng e bao gm v hnh trong thut ng <quote>s a i</quote>.)

Mt <quote>c nga h</quote> b t k th vin phn mm hay sn phm nh vy c phí hnh theo cc cu khon ny. Mt <quote>sn phm</quote> c ngha l Th vin hay bt k sn phm no bt ngun t n di lut bn quyển: tc l, sn phm cha Th vin hay mt phn ca n, hoc ng nguyễn vn hoc vi sa i v/hoc c dch sang mt ngn ngk. (K t cu ny, vic dch ngn ng e bao gm v hnh trong thut ng <quote>s a i</quote>.)

Mt <quote>Nhung</quote> c nga h</quote> b t k th vin phn mm hay sn phm nh vy c phí hnh theo cc cu khon ny. Mt <quote>sn phm</quote> da trn Th vin</quote> c ngha l Th vin hay bt k sn phm no bt ngun t n di lut bn quyển: tc l, sn phm cha Th vin hay mt phn ca n, hoc ng nguyễn vn hoc vi sa i v/hoc c dch sang mt ngn ngk. (K t cu ny, vic dch ngn ng e bao gm v hnh trong thut ng <quote>s a i</quote>.)

Nhung hot ng khc ngoi s sao chp, phí hnh v sa i khi kh ng c km sot bi Giy php ny; n ngoi phm vi ca giy php ny. Hnh ng chy Th vin khng b hnh, v d liu xut t Th vin ch b khng ch nu ni dung ca n to thnh mt sn phm da vo Th vin (khng ph thé vo vic s dang Th vin nh l cng c ghi n). iu ng hay khng ph thé vo iu m Th vin to ra, v iu m chng trnh s dang Th vin to ra.

Bn c quyển sao chp v phí hnh bn sao ng nguyễn vn ca ton b m ngun ca Th vin nh bn nhn n, bng bt k ceh no, min l bn cng b r rng v thch ng trn mi bn sao mt thng bo tc quyển thch hp v min tr bo hnh; gi nguyễn vn mi thng bn li
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</para>
<sect2 id="sect4" label="4" title="Phn 4"></sect2>

<para>Bn c quyn sao chp v pht hnh Th vin (hoc on no ca n hoc sn phm da vo n, di Phn 2) trong dng the m i tng hay tp tin chy c vi ii kin ca Phn 1 v Phn 2 bn trn, min l bn km theo ton b m ngun tng ng m my c th c c. c pht hnh vi ii kin ca Phn 1.</para>

<sect2 id="sect5" label="5" title="Phn 5"></sect2>

<para>Mt chng trnh khng cha sn phm bt ngun t bt c on no ca Th vin, cn c thit k lm vic vi Th vin bng cch c bin dch hay lin kt vi n, c gi l sn phm s dng Th vin. Sn phm nh vy, c lp khng phi l sn phm bt ngun t Th vin th nm ngoi phm vi ca Giy php ny.</para>

<para>Tuy nhin, vic lin kt mt sn phm s dng Th vin vi Th vin th to mt tp tin chy c bt ngun t Th vin (v n cha on ca Th vin), hn l mt sn phm s dng Th vin. Tp tin chy c th c bao qut bi Giy php ny. Phn 6 pt biu cc iu kin pht hnh tp tin chy c nh vy.</para>

<para>Khi mt sn phm s dng Th vin cong s dng on no ca tp tin phn u thuc v Th vin, m i tng cho sn phm ny c th l mt sn phm bt ngun t Th vin, mc d m ngun khng phi. iu ng hay khng l quan trng c bit nu sn phm ny c th c lin kt khng c Th vin, hoc nu sn phm ny chnh n l th vin. Php lut cha x c nh chnh xc ngng ng ca trng hp ny.</para>

<para>Tp tin i tng nh vy s dng ch cc tham s kiu s, b tr cu trc d liu, v v lnh nh v hm trc tip nh (mi ii c di ti a 10 dng) th cch s dng tp tin i tng l v hn, bt chp n hp l l sn phm bt ngun. (Tp tin chy c cha m i tng ny cong vi on ca Th vin vn cn nm di Phn 6.)</para>

<para>Khng th, nu sn phm bt ngun t Th vin, bn c th pht hnh m i tng ca sn phm theo ii kin ca Phn 6. Bt kp tp tin chy c cha sn phm cong nm di Phn 6 Section 6, bt chp n c lin kt trc tip vi Th vin chnh n.</para>

<sect2 id="sect6" label="6" title="Phn 6"></sect2>

<para>Ngói l nhng Phn trn l bn cong c th kt hp hay lin kt mt sn phm s dng Th vin vi Th vin to mt sn phm cha on ca Th vin, ri pht hnh sn phm di cc ii khon bn chn, min l ii khon ny cho php sa i sn phm cho ngi khch s dng ring, v cho php thit k i chiu g li trong s sa i nh vy.</para>
You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

<orderedlist numeration="loweralpha">
  <listitem>
    <para id="sect6a">
      Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections <link linkend="sect1">1</link> and <link linkend="sect2">2</link> above); and, if the work is an executable linked with the Library, with the complete machine-readable <quote>work that uses the Library</quote>, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
    </para>
  </listitem>
  <listitem>
    <para>
      Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
    </para>
  </listitem>
  <listitem>
    <para>
      Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in <link linkend="sect6a">Subsection 6a</link> above, for a charge no more than the cost of performing this distribution.
    </para>
  </listitem>
  <listitem>
    <para>
      If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above specified materials from the same place.

<para>
</para>

<listitem>
<para>
Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
</para>
</listitem>

</orderedlist>

<para>
i vi tp tin chy c, dng the cn thit ca <quote>sn phm s dng Th vin</quote> phi cha chng trnh no kiu d liu hay tin ch cn thit to li tp tin chy c t n. Tuy nhin, ngoi l c bit l cc nguy liu c pht hnh khng cn phi bao gm nhng g c pht hnh bnh thng (trong dng thc hoc ngun hoc nh phn) vi cc thnh phn chnh (b bin dch, ht nhn v.v.) ca h iu hnh ni tp tin chy c hot ng, tr khi thnh phn km theo cn thit chy tp tin.</para>

<para>C th xy ra rng iu kin ny mu thun s ln ch giy php ca th vin s hu khe khng bnh thng km theo h iu hnh. S mu thun nh vy c ngha l bn khng th s dng c th vin nh vy v Th vin u trong tp tin chy c bn pht hnh.</para>

</sect2>

<sect2 id="sect7" label="7">
<title>Phn 7</title>

<para>Bn c th chc nng th vin l sn phm da vo Th vin cnh nhau trong mt th vin ring l, cng vi cc chc nng th vin khng e bao qu t bi Giy php ny, v pht hnh th vin kt hp nh vy, min l cho php pht hnh ring <quote>sn phm s dng Th vin</quote> v chc nng th vin khe, v min l bn lm hai vic ny:</para>

<orderedlist numeration="loweralpha">
<listitem>
<para>Km theo th vin kt hp mt bn sao ca <quote>sn phm s dng Th vin</quote>, ring vi chc nng th vin khe no. N phi c pht hnh vi cc iu khon ca nhng Phn trn.</para>
</listitem>
<listitem>
<para>Cng b r rng trn th vin kt hp thng bo rng phn ca n l <quote>sn phm s dng Th vin</quote>, cng ch ti ni cha dng thc ring ca cng sn phm km theo.</para>
</listitem>
</orderedlist>

</sect2>

<sect2 id="sect8" label="8">
<title>Phn 8</title>

<para>Khng cho php bn sao chp, sa i, lin kt vi hay pht hnh Th vin, tr vi iu kin c din t dt khot trong Giy php ny. Bt k s c gng no trong vic sao chp, sa i, cp giy php ph, lin kt vi hay pht hnh Th vin bng ceh khe b bi b, v s t ng kt thc cc quyn ca bn di Giy php ny. Tuy nhin, ngi khe nhn bn sao hay quyn t bn di Giy php ny s khng b nh hng, min l h tip te
tun theo hon ton.</para>
</sect2>

<sect2 id="sect9" label="9">
<title>Phn 9</title>

<para>Bn khng bt buc phi chp nhn Giy php ny, v bn cha k tn vo n. Tuy nhn, khng c g khe cho php bn sa i hay
phth hnh Th vin hay sn phm bt ngun t n. Cc hnh ng ny b php lut cm nu bn khng chp nhn Giy php ny. V vy, bnng cch sa
i hay phth hnh Th vin (hay sn phm da vo n), bn ng s chp nhn Giy php ny Im nh th, gm mi iu kin sao chp, phth hnh hay
sa i Th vin hay sn phm da vo n.</para>
</sect2>

<sect2 id="sect10" label="10">
<title>Phn 10</title>

<para>Mi ln bn phth hnh li Th vin (hay sn phm da vo Th vin), nghi nhn c th nhn t ng mt giy php t ngi cp gc, sao
chp, phth hnh, lin kt vi hay sa i Th vin vi iu kin ny. Khng cho php bn ln ch thm cch nghi dng s dng cc quyn e cp trong
Giy php ny. Bn cng khng phi chu trch nhim v vic p buc nghi khe tun theo iu kin ca Giy php ny.</para>
</sect2>

<sect2 id="sect11" label="11">
<title>Phn 11</title>

<para>Nu, do kt qu ca quyt nh ca to n hay cc co buc vi phm bng sng ch hay v bt c l do no (khng b gií hn trong vn
bng sng ch), bn b p buc chp nhn iu kin (hoc v quyt nh ca to n, s th thun hoc cch khe no) m mu thun iu kin ca Giy
php ny, trng hp ny khng min cho bn khng phi tha mn iu kin ca Giy php ny. Nu bn khng th phth hnh bng cch th ln ng
thi cc giaó c ca bn dí Giy php ny v bt k giaó c thch hp khe, th kt qu l khng cho php bn phth hnh Th vin bng cch no c.
Ly th d, nu mtng bng sng ch no khng cho php s phth hnh li Th vin mt cch min tin bn quy nh phth nhinh cho mi nghi nhn bn
sao t bn mt cch trc tip hay gìn tip, th cch duy nh th bn c th th gaat cng v Giy php ny l hon tong khng phth hnh Th
vin.</para>

<para>Nu on no trong phn ny c quyt nh l khng hp l hay khng th c p buc trong bt k trng hp ring no, on cn li d nh p
dng c, v ton b phn d nh p dng trong cc trng hp khe.</para>
</sect2>

<sect2 id="sect12" label="12">
<title>Phn 12</title>

<para>Khng phi l mc ch ca phn ny xí gic bn vi phm bng sng ch no hay li yu sch quy nh ti sn khc, hoc khng tha
nhn s hp l ca li yu sch nh vy; phn ny c me ch duy nh th bo v thn trng nguy vn ca a h thng phth hnh phn mm t do, mm c
thc thi bi cc p dng giy php cng cng. Nhu nghi ng gp rng lng cho nt phm v rng ca cc phn mm c phth hnh qua h thng ,
nh s thc thi nn b h thng : ty tc gi / nghi trng quyt nh nu h mun phth hnh phn mm qua a h thng khe no, v nghi c cp Giy php
khng th iu khin cch quyt nh .</para>

<para>Phn ny d nh din t r rng hon ton kt qu c hiu ca phn cn li ca Giy php ny.</para>
</sect2>

<sect2 id="sect13" label="13">
<title>Phn 13</title>

<para>Nu s phth hnh v/hay cch s dng Th vin b hn ch trong mt s quc gia no , hoc bi bng sng ch hoc bi giaó din c bn
quyn tc gi, nghi tc quyn gc t Th vin di Giy php ny c kh nng thm s hn ch phth hnh a l ring loi tr nhng quc gia , cho
php pht hnh ch trong hay gia cc quc gia khng b loi tr nh th. Trong trng hp nh vy, Giy php ny hp nht s hn ch nh l n c ghi trong thn ca Giy php ny.</para>

</sect2>

<sect2 id="sect13" label="13">
	<title>Phn 13</title>

<para>T che Phn mm T do c th xut bn phin bn sa i v/hay mi ca Giy php Cng cng Ph GNU. Phin bn mi nh vy s c tinh thn tng t vi phin bn hin thi, nhng c th khc bit trong chi tit gii quyt vn mi.</para>

<para>Mi phin bn c gn mt s hiu phn bit phin bn . Nu Th vin xc nh s phin bn ring ca Giy php ny p dng cho n,
<quote>v bt k phin bn sau no</quote>, bn c ty chn tha iu kin hoc ca phin bn , hoc ca bt k phin bn sau no c xut bn bi T che Phn mm T do. Nu Th vin khng xc nh s phin bn ring ca Giy php ny, bn c kh nng chn bt k phin bn no ca Giy php ny c xut bn bi T che Phn mm T do.</para>

</sect2>

<sect2 id="sect14" label="14">
	<title>Phn 14</title>

<para>Nu bn mun hp nht phn no ca Th vin vo chng trnh t do khc c iu kin pht hnh khng tng thch vi Giy php ny, hy xin php tc gi. i vi phn mm c bn quyn tc gi ca T che Phn mm T do, hy vit th cho T che Phn mm T do : thng thong chng ti cho php ngoi l trong trng hp ny. Quyt nh ca chng ti s c hng dn bi hai mc ch l s bo tn trng thi t do ca mi iu bt ngut tp mm t do ca chng ti, v s y mnh s chia s v s dng li phn mm mt cch chung.</para>

</sect2>

<sect2 id="sect15" label="15">
	<title>KHNG BO HNH</title>
	<subtitle>Phn 15</subtitle>

<para>V TH VIN C CP PHP MIN PH, KHNG C BO HNH I VI TH VIN NY, VI IU KIN C PHP LUT CHO PHP. TR KHI XC NH KHC BNG TI LIU GIY T, CC NGI GI BN QUYN TC GI V/HAY NGI KHC CUNG CP TH VIN NY <quote>NH TH</quote>, KHNG C BO HNH G C, KHNG PHT BIU N, CNG KHNG NG N, GM, NHNG KHNG B HN CH BI, S BO M NG TNH TRNG C TH BN C V S THCH HP VI MT MC CH DT KHOT. MI RI RO V CHT LNG, CHNH XC V HIU SUT CA TH VIN NY BN S T CHU. NU TH VIN NY GY RA H HNG, BN GNH VC HON TON TRCH NGHIM TR DIN DCH V GIP HAY SA CHA.</para>

</sect2>

<sect2 id="sect16" label="16">
	<title>Phn 16</title>

<para>KHNG C TRNG HP NO (TR KHI PHP LUT YU CU HAY KHI C THA THUN BNG TI LIU GIY T) M BT K NGI GI BN QUYN TC GI NO, HAY BT K NGI KHC NO C TH SA I V/HAY PHT HNH LI TH VIN NH C PHP BN TRN, S C TRCH NHIM V PHP L BI THNG, GM BT K BI THNG KIU TNG QUT, C BIT, NGU NHIN HAY DO HU QU DO S DNG HAY S KHNG C KH NNG S DNG TH VIN NY (GM NHNG KHNG PHI B HN TH BI S MT D LIU HAY D LIU B LM CHO KHNG CHNH XC HAY CC MT MT CA BN HAY NGI KHC HAY S KHNG HOT NG C TH VIN NY VI CHNG TRNH KHC), THM CH NU BN HAY NGI KHC C BO BIT C KH NNG THIT HI NH VY.</para>

</sect2>
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- Excepción:

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<note>
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</note>

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<sect2 id="sect3" label="3">
<title>Sección 3</title>

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<li>Acompañarlo con una oferta por escrito, válida durante al menos tres años, de proporcionar a cualquier tercera parte una copia completa en formato electrónico del código fuente correspondiente, a un costo no mayor que el de realizar físicamente la distribución del fuente, que ser distribuido bajo las condiciones descritas en los apartados 1 y 2 anteriores, en un medio habitualmente utilizado para el intercambio de programas, o</li>
<li>Acompañarlo con la información que recibiste ofreciendo distribuir el código fuente correspondiente. (Esta opción se permite sólo para distribuir no comercial y sólo si usted recibió el programa como código objeto o en formato ejecutable con tal oferta, de acuerdo con la Subsección b anterior).</li>
</orderedlist>
<p>Por código fuente de un trabajo se entiende la forma preferida del trabajo cuando se le hacen modificaciones.</p>
</sect2>
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<para>Si la distribución del ejecutable o del código objeto se hace mediante la oferta acceso para copiarlo de un cierto lugar, entonces se considera la oferta de acceso para copiar el código fuente del mismo lugar como distribución del código fuente, incluso aunque terceras partes no estén forzadas a copiar el fuente junto con el código objeto.</para>

<sect2 id="sect4" label="4">
<title>Sección 4</title>

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</sect2>

<sect2 id="sect5" label="5">
<title>Sección 5</title>

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</sect2>

<sect2 id="sect6" label="6">
<title>Sección 6</title>

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</sect2>

<sect2 id="sect7" label="7">
<title>Sección 7</title>

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<sect2 id="sect8" label="8">
<title>Sección 8</title>

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</sect2>

<sect2 id="sect9" label="9">
<title>Sección 9</title>

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<sect2 id="sect10" label="10">
<title>Sección 10</title>

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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That's all there is to it!

1.710 gnome-python 2.28.1-14.el7

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

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

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

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

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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Appendix: How to Apply These Terms to Your New Programs

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

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1.716 python-inotify 0.9.4-4.el7
1.716.1 Available under license:

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1.717 audit 2.8.2-1ubuntu1.1

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
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this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable “work that
uses the Library”, as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must
be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identif
ciable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

root function must still compute square roots.)
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also combine or
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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*/

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ef9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73f8e bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
Create default BSD
2e1cee529cb59e9341afe0443f196a1 bsd.img
---layout--------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end    size    fstype    [fsize bsize  cpg]
c:  4096   20479  16384  unused      0     0
    d:       0   16064 16065  unused      0     0

BSD disklabel command (m for help):
Command (m for help):

--------------
b5c121c2091b2ff26b880551feac7112 bsd.img
---layout--------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end    size    fstype    [fsize bsize  cpg]
a:  4096   6144   2049  4.2BSD        0     0
    c:  4096   20479 16384  unused      0     0
    d:       0   16064 16065  unused      0     0

BSD disklabel command (m for help):
Command (m for help):
--------------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

```
0  unused           5  4.1BSD           9  4.4LFS     d  boot
1  swap             6  Eighth Edition  a  unknown   e  ADOS
2  Version 6        7  4.2BSD           b  HPFS       f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660  10  AdvFS
4  System V
```

BSD disklabel command (m for help):

1.721 jaxb-core 2.1.13

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

Contributors:
The Red Hat developers, without whom CentOS would look very different

Akemi Matsuno-Yagi
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1.730 pycparser 2.20

1.730.1 Available under license:
pycparser -- A C parser in Python

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  jar/io/netty/channel/MessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1-
  jar/io/netty/channel/ConnectTimeoutException.java
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**Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in its [link ChannelPipeline].**

* Alternatively, the following adapter classes are provided for your convenience:

* For more information, please refer to the documentation of each subtype.

* **The context object**

* A [link ChannelHandler] is provided with a [link ChannelHandlerContext] object. A [link ChannelHandler] is supposed to interact with the [link ChannelPipeline] it belongs to via a context object. Using the context object, the [link ChannelHandler] can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using [link AttributeKey]s) which is specific to the handler.
A `ChannelHandler` often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
```

Because the handler instance has a state variable which is dedicated to one connection, you have to create a new handler instance for each new channel to avoid a race condition where a unauthenticated client can get the confidential information:

```java
// Create a new handler instance per channel.
// See `ChannelInitializer#initChannel(Channel)`.
public class DataServerInitializer extends ChannelInitializer<Channel> {

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances. * In such a case, you can use [@link AttributeKey]s which is provided by * [@link ChannelHandlerContext]: *<pre>*
public interface Message { *  // your methods here *
}
*
* [@code @Sharable]
* public class DataServerHandler extends [@link SimpleChannelInboundHandler] &lt;Message&gt; { *
*    private final [@link AttributeKey] &lt;@link Boolean&gt; &gt; auth = *
*        { [@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")] }; *
*
*    { [@code @Sharable]
*    public class DataServerHandler extends [@link SimpleChannelInboundHandler] &lt;Message&gt; { *
*        private final [@link AttributeKey] &lt;@link Boolean&gt; &gt; auth = *
*            { [@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")] }; *
*
*            { [@code @Override]
*            public void channelRead( [@link ChannelHandlerContext] ctx, Message message) { *
*                if (message instanceof LoginMessage) { *
*                    authenticate((LoginMessage) o); *
*                    attr.set(true);<b>/</b>;
*                    } else (message instanceof GetDataMessage) { *
*                        if (<b>Boolean.valueOf(true)</b>) { *
*                            ctx.writeAndFlush(fetchSecret((GetDataMessage) o)); *
*                        } else { *
*                            fail(); *
*                        } *
*                    } *
*                    ... *
*                }
*            }
*        }
*    }
* </pre>*
* Now that the state of the handler is attached to the [@link ChannelHandlerContext], you can add the * same handler instance to different pipelines: *<pre>*
*    public class DataServerInitializer extends [@link ChannelInitializer] &lt;@link Channel&gt; { *
*
*        private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler(); *
*
*        { [@code @Override]
*        public void initChannel( [@link Channel] channel) { *
*            channel.pipeline().addLast("handler", &lt;b&gt;SHARED&lt;/b&gt;); *
*        }
*    }
* </pre>*
*<h4>The [@code @Sharable] annotation</h4>*
* In the example above which used an [@link AttributeKey],
* you might have noticed the [@code @Sharable] annotation.

* If a [@link ChannelHandler] is annotated with the [@code @Sharable] annotation, it means you can create an instance of the handler just once and add it to one or more [@link ChannelPipeline]s multiple times without a race condition.

* If this annotation is not specified, you have to create a new handler instance every time you add it to a pipeline because it has unshared state such as member variables.

* This annotation is provided for documentation purpose, just like the JCIP annotations</a>.

* Additional resources worth reading

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

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* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1.jar/io/netty/bootstrap/BootstrapConfig.java
* /opt/ws_local/PERMITS_SQL/1068232313_1594323914.29/0/netty-transport-4-1-49-final-sources-1.jar/io/netty/channel/WriteBufferWaterMark.java
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/expr/Instanceof.java

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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/SerialVersionUID.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/SourceFileAttribute.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/bytecode/StackMap.java
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* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1135902017_1613627678.46/0/javassist-3-19-0-ga-sources-1-jar/javassist/compiler/Javac.java

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jar/javassist/bytecode/annotation/IntegerMemberValue.java

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1.752 brltty 0.6.0-16.el7
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1.756 libdaemon 0.14

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at least
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d) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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all the source code for all modules it contains, plus any associated
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c) You must cause the whole of the work to be licensed at no
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d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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1.760 gtk 2.24.31-1.el7

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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1.764 jboss-negotiation-spnego 2.2.6.Final-redhat-1

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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It was originally written by Tatu Saloranta (tatu.salentoranta@iki.fi), and has been in development since 2007.
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.794 alsa-tools 1.1.0-1.el7

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/format/Parser.java

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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/jmx/export/notification/NotificationPublisher.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/annotation/Jsr330ScopeMetadataResolver.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/event/ContextStartedEvent.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/Lifecycle.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/context/MessageSourceResolvable.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/scheduling/SchedulingException.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/validation/BindingResult.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/weaving/LoadTimeWeaverAwareProcessor.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/support/MessageSourceSupport.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/format/FormatterRegistrar.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/format/Printer.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/ejb/access/EjbAccessException.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/validation/DefaultBindingErrorProcessor.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/remoting/support/RemoteInvocationUtils.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/jmx/support/NotificationListenerHolder.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/scheduling/annotation/SchedulingConfigurer.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/ejb/config/JeeNamespaceHandler.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/support/ConversionServiceFactoryBean.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/expression/BeanFactoryResolver.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/support/UiApplicationContextUtils.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/config/ContextNamespaceHandler.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/context/support/UiApplication ContextUtils.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3.jar/org/springframework/context/config/RemoteStatelessSessionBeanDefinitionParser.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/ConfigurationClass.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/support/ResourceBundleMessageSource.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/ApplicationContext.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocationResult.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/format/datetime/standard/DateTimeFormatterRegistrar.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/ConditionEvaluator.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/support/NoOpCacheManager.java
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/support/AbstractApplicationContext.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/interceptor/NamedCacheResolver.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/support/AbstractCacheManager.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/annotation/CacheEvict.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/interceptor/VariableNotAvailableException.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/ConfigurationClassParser.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/support/CompositeCacheManager.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/ApplicationContext.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocationResult.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/format/datetime/standard/DateTimeFormatterRegistrar.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/ConditionEvaluator.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/support/NoOpCacheManager.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/jmx/support/JmxUtils.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/support/AbstractApplicationContext.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/interceptor/NamedCacheResolver.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/support/AbstractCacheManager.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/annotation/CacheEvict.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/cache/interceptor/VariableNotAvailableException.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/ConfigurationClassParser.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/scheduling/annotation/AsyncAnnotationBeanPostProcessor.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/scheduling/annotation/SchedulingConfiguration.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/jmx/export/MBeanExporter.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/cache/interceptor/CacheConfigurationSelector.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/cache/interceptor/CacheResolver.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/context/annotation/ConfigurationClassUtils.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/cache/annotation/CacheConfig.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/validation/beanvalidation/MethodValidationInterceptor.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/format/datetime/joda/JodaDateTimeFormatAnnotationFormatterFactory.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/context/annotation/PropertySources.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/context/annotation/ImportResource.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/context/expression/BeanFactoryAccessor.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/jmx/export/ModelMBeanFactory.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/jmx/export/ModelMBeanExporter.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/cache/interceptor/CacheOperationInvocationContext.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/cache/interceptor/SimpleCacheResolver.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/context/annotation/ImportResource.java
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jar/org/springframework/context/annotation/Bean.java
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 */
/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation. Callers
 * are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/context/annotation/ScopedProxyCreator.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/jmx/export/MBeanExportOperations.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/context/LifecycleProcessor.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/context/event/ApplicationEventMulticaster.java
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jar/org/springframework/context/support/StaticMessageSource.java
  */
  * /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
  */
  * /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
  */
  * /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
  */
  * /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
  */
  * /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/jmx/export/ManagedNotification.java
  */
  * /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
jar/org/springframework/stereotype/Controller.java

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 * limitations under the License.
 */
/**
 * Indicates that a component is only eligible for registration when all
 * @{linkplain #value()} specified conditions} match.
 *
 * &lt;p&gt;A &lt;em&gt;condition&lt;/em&gt; is any state that can be determined programmatically
 * before the bean definition is due to be registered (see {@link Condition} for details).
 *
 * &lt;p&gt;The {@code @Conditional} annotation may be used in any of the following ways:
 * &lt;ul&gt;
 * &lt;li&gt;as a type-level annotation on any class directly or indirectly annotated with
 *   {@code @Component}, including [@link Configuration @Configuration] classes</li&gt;
 * &lt;li&gt;as a meta-annotation, for the purpose of composing custom stereotype
 *   annotations</li&gt;
 * &lt;li&gt;as a method-level annotation on any [@link Bean @Bean] method</li&gt;
 * &lt;/ul&gt;
 *
 * &lt;p&gt;If a [@code @Configuration] class is marked with [@code @Conditional], all of the
 * [@code @Bean] methods, [@link Import @Import] and [@link ComponentScan @ComponentScan]
 * annotations associated with that class will be subject to the conditions.
 *
 * &lt;p&gt;NOTE: [@code @Conditional] annotations are not inherited; any conditions from
 * superclasses or from overridden methods are not being considered.
 *
* @author Phillip Webb
* @since 4.0
* @see Condition
*/

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* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/ImportAware.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/EmbeddedValueResolverAware.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/stereotype/Repository.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/BeanMethod.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/annotation/BeanAnnotationHelper.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/stereotype/Service.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/SmartLifecycle.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-jar/org/springframework/context/ApplicationContextInitializer.java
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
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/**
 * @link FactoryBean that obtains a WebSphere @link javax.management.MBeanServer
 * reference through WebSphere's proprietary @link AdminServiceFactory API,
 * available on WebSphere 5.1 and higher.
 * 
 * <p>Exposes the @link MBeanServer for bean references.
 */
* This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
* 
* <p>See the javadocs for WebSphere's
* 
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

Found in path(s):
* /opt/cola/permits/1144749234_1618993700.36/0/spring-context-4-1-5-release-sources-3-
  jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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%result_indices %result_sectioning %result_nodes %result_menus
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1.815 jbosssaaajapi 1.0.2.Final-redhat-2

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1.817 gtkmm 2.24.5-1.el7

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/***/

* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
* 
* <p>The XSLT Source object is supplied as a parameter in the model and then
* [{@link locateSource detected}] during response rendering. Users can either specify
* a specific entry in the model via the [{@link setSourceKey sourceKey}] property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See [{@link getSourceTypes()} here]
* for more details.
*
* All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure [@link setOutputProperties output properties]
* to be passed to the Transformer.
* 
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/

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jar/org/springframework/web/servlet/view/BeanNameViewResolver.java
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3-
jar/org/springframework/web/servlet/mvc/multiaction/MethodNameResolver.java
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jar/org/springframework/web/mvc/WebContentInterceptor.java *
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3-
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* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3-
jar/org/springframework/web/servlet/tags/form/AbstractCheckedElementTag.java *
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3-
jar/org/springframework/web/servlet/tags/form/AbstractFormTag.java *
* /opt/cola/permits/1136652756_1613848910.53/0/spring-webmvc-3-0-7-release-sources-3-
jar/org/springframework/web/servlet/tags/form/AbstractTag.java
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1.830 docker-ce-cli 19.03.15-3.el7

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package engine

import (
    "bytes"
    "encoding/json"
    "strings"
    "testing"
    "time"

    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
    "gotest.tools/v3/assert"
    is "gotest.tools/v3/assert/cmp"
)

func TestSubscriptionContextWrite(t *testing.T) {
    cases := []struct {
        context  formatter.Context
        expected string
    }{
        // Errors
        {
            formatter.Context{Format: "{{InvalidFunction}}"},
            `Template parsing error: template: :1: function "InvalidFunction" not defined
            ,`
        },
        {
            formatter.Context{Format: "{{nil}}"},
            `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
            ,`
        },
        // Table format
    }
}
```
{ formatter.Context{Format: NewSubscriptionsFormat("table", false)},
  'NUM  OWNER     PRODUCT ID      EXPIRES                      PRICING COMPONENTS
  1    owner1    productid1     2020-01-01 10:00:00 +0000 UTC   compstring
  2    owner2    productid2     2020-01-01 10:00:00 +0000 UTC   compstring
},
{ formatter.Context{Format: NewSubscriptionsFormat("table", true)},
  '1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
  2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01
},
{ formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
  'OWNER
  owner1
  owner2
},
{ formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
  'OWNER
  owner1
  owner2
},
// Raw Format
  'license: id1
  name: name1
  owner: owner1
  components: compstring

  license: id2
  name: name2
  owner: owner2
  components: compstring
},
{ formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
  'license: id1
  license: id2
},
```
// Custom Format
{
    formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
    `owner1
    owner2
    `,
}
}

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                    ComponentString: "compstring",
                    
                Num: 2,
                Owner: "owner2",
                Subscription: model.Subscription{
                    ID: "id2",
                    Name: "name2",
                    ProductID: "productid2",
                    Expires: &expiration,
                    PricingComponents: model.PricingComponents{
                        &model.SubscriptionPricingComponent{
                            Name: "nodes",
                            Value: 20,
                        },
                        ComponentString: "compstring",
                        
                    }
                }
            }
        }
    }
}
out := &bytes.Buffer{}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
    assert.Error(t, err, testcase.expected)
} else {
    assert.Check(t, is.Equal(testcase.expected, out.String()))
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
    subscriptions := []licenseutils.LicenseDisplay{
    {
        Num:  1,
        Owner: "owner1",
        Subscription: model.Subscription{
            ID:   "id1",
            Name: "name1",
            ProductID: "productid1",
            Expires: &expiration,
            PricingComponents: model.PricingComponents{
                &model.SubscriptionPricingComponent{
                    Name: "nodes",
                    Value: 10,
                },
            },
            ComponentsString: "compstring",
        },
        {
            Num:  2,
            Owner: "owner2",
            Subscription: model.Subscription{
                ID:    "id2",
                Name:  "name2",
                ProductID: "productid2",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 20,
                    },
                },
                ComponentsString: "compstring",
            },
    }
}
expectedJSONs := []map[string]interface{}{

    "Owner": "owner1",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id1",
    "Start": nil,
    "Name": "name1",
    "Num": float64(1),
    "PricingComponents": []interface{}{
        map[string]interface{}{
            "name": "nodes",
            "value": float64(10),
        },
    },
    "ProductID": "productid1",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State": "",
    "Summary": "License Name: name1	Quantity: 10 nodes	Expiration date: 2020-01-01",
},

    "Owner": "owner2",
    "ComponentsString": "compstring",
    "Expires": "2020-01-01T10:00:00Z",
    "DockerID": "",
    "Eusa": nil,
    "ID": "id2",
    "Start": nil,
    "Name": "name2",
    "Num": float64(2),
    "PricingComponents": []interface{}{
        map[string]interface{}{
            "name": "nodes",
            "value": float64(20),
        },
    },
    "ProductID": "productid2",
    "ProductRatePlan": "",
    "ProductRatePlanID": "",
    "State": "",
    "Summary": "License Name: name2	Quantity: 20 nodes	Expiration date: 2020-01-01",
}

}
out := &bytes.Buffer{ }
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var m map[string]interface{}
    if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
    }
    assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}

func TestSubscriptionContextWriteJSONField(t *testing.T) {
    subscriptions := []licenseutils.LicenseDisplay{
        {Num: 1, Owner: "owner1"},
        {Num: 2, Owner: "owner2"},
    }
    out := &bytes.Buffer{ }
    if err != nil {
t.Fatal(err)
    }
    for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
        var s string
        if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
        }
        assert.Check(t, is.Equal(subscriptions[i].Owner, s))
    }
}

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package licensing

import {
    "context"
    "crypto/hmac"
    "crypto/sha256"
    "encoding/base64"
    "encoding/json"
    "fmt"
    "time"
}
github.com/docker/libtrust"
github.com/docker/licensing/lib/errors"
github.com/docker/licensing/lib/go-clientlib"
github.com/docker/licensing/model"

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    // Check verifies that the license identified by the given key id is valid. Note that it does not
    // interrogate the contents of the license.
    func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
        keyID := license.KeyID
        privateKey := license.PrivateKey
authorization, err := c.getAuthorization(ctx, license)
if err != nil {
    return nil, err
}

// TODO: Mason - replace this parseJWS with a non libtrust lib
signature, err := libtrust.ParseJWS(authorization)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
    err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
    return nil, errors.WithStack(err).With(errors.Fields{
        "key_id": keyID,
    })
}

key := keys[0]
if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "unrecognized signing key")
}
msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrap(err, errors.Fields{
            "key_id": license.KeyID,
        }, "decoding license authorization failed")
    }
    return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields("token": token))
    }
    generatedToken, err := generateToken(message, privateKey)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
if err != nil {
    return errors.Wrap(err, errors.Fields{"token": token})
}

if !hmac.Equal(tokenBytes, generatedBytes) {
    return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
}

return nil

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}

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procfs provides functions to retrieve system, kernel and process 
metrics from the pseudo-filesystem proc.

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import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed json blob.

// CheckResponse struct { time.Time `json:"expiration"`
// token string `json:"token"`
// maxEngines int `json:"maxEngines"`
// scanningEnabled bool `json:"scanningEnabled"
// licenseType string `json:"licenseType"
// tier string `json:"tier"
// }

// IssuedLicense represents an issued license

type IssuedLicense struct {
  key_id string `json:"key_id"
  private_key string `json:"private_key"
  authorization string `json:"authorization"
}

// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
  if l.key_id == "" { return false, "empty key_id"
  }

  if l.private_key == "" { return false, "empty private_key"
  }
if l.Authorization == "" {
    return false, "empty authorization"
}

return true, ""
}
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package engine

import (   "time"
    "github.com/docker/cli/cli/command/formatter"
    "github.com/docker/cli/internal/licenseutils"
    "github.com/docker/licensing/model"
)

const (   defaultSubscriptionsTableFormat = "table
   
   
   {{.Num}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"
   defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
)

numHeader               = "NUM"
ownerHeader             = "OWNER"
licenseNameHeader       = "NAME"
idHeader                = "ID"
dockerIDHeader          = "DOCKER ID"
productIDHeader         = "PRODUCT ID"
productRatePlanHeader   = "PRODUCT RATE PLAN"
productRatePlanIDHeader = "PRODUCT RATE PLAN ID"
startHeader             = "START"
expiresHeader           = "EXPIRES"
stateHeader             = "STATE"
eusaHeader              = "EUSA"
pricingComponentsHeader = "PRICING COMPONENTS"
)

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format {
    switch source {
    case formatter.TableFormatKey:
        if quiet {
            return defaultSubscriptionsQuietFormat
        }
        return defaultSubscriptionsTableFormat
    }
}
case formatter.RawFormatKey:
if quiet {
    return `license: {{.ID}}`
}
return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
` 
return formatter.Format(source) 
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext formatter.SubContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{}
    licenseCtx.Header = map[string]string{
        "Num":               numHeader,
        "Owner":             ownerHeader,
        "Name":              licenseNameHeader,
        "ID":                idHeader,
        "DockerID":          dockerIDHeader,
        "ProductID":         productIDHeader,
        "ProductRatePlan":   productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start":             startHeader,
        "Expires":           expiresHeader,
        "State":             stateHeader,
        "Eusa":              eusaHeader,
        "ComponentsString":  pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l    licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}
func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}
func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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1.831 trousers 0.3.14-2.el7

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1.832 libgsm 1.0.13-11.el7

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

1.835 libdaemon 0.14-7.el7
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1.838 udisks 2.7.3-9.el7

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* /opt/cola/permits/1192071313_1637274312.95/0/relaxngdatatype-2011-1-redhat-6-sources-jar/org/relaxng/datatype/helpers/DatatypeLibraryLoader.java

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

/**
 * Checks if the ID/IDREF semantics is associated with this
 * datatype.
 *
 * <p>
 * This method is introduced to support the RELAX NG DTD
* compatibility spec. (Of course it's always free to use
* this method for other purposes.)
*
* <p>
* If you are implementing a datatype library and have no idea about
* the "RELAX NG DTD compatibility" thing, just return
* <code>ID_TYPE_NULL</code> is fine.
*
@return
* If this datatype doesn't have any ID/IDREF semantics,
* it returns { @link #ID_TYPE_NULL]. If it has such a semantics
* (for example, XSD:ID, XSD:IDREF and comp:ID type), then
* it returns { @link #ID_TYPE_ID}, { @link #ID_TYPE_IDREF} or
* { @link #ID_TYPE_IDREFS}.
*/

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* /opt/cola/permits/1192071313_1637274312.95/0/relaxngdatatype-2011-1-redhat-6-sources-
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1.846 hyperv-daemons 0-0.34.20180415git.el7
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1.855 clutter-gst3 3.0.26-1.el7

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1.859 aspect-j 1.8.7

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
The hypothetical commands `show w` and `show c` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w` and `show c`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision` (which makes passes at compilers) written by James Hacker.

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

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The "Artistic License"

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   d) make other distribution arrangements with the Copyright Holder.

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b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

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The End

1.865 mesa 18.3.4-5.el7
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Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
> 
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.
The license says:

*   2. Redistributions in binary form must reproduce the following statement:
*   *
*   "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
*   Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
*   *
*   Only for use in the Mesa project, this point 2 is filled by naming the
*   technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.866 augeas 1.4.0-9.el7
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Version 2.1, February 1999

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^L

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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If distribution of object code is made by offering access to copy
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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

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functions (ten lines or less in length), then the use of the object
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That's all there is to it!
Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard  
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
* Bob Schlaermann  
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  libsensors and sensors.
* Mark M. Hoffman  
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare  
  New libsensors API, and migration of sensors and sensord thereto.  
  Many optimizations in libsensors and sensors.  
  Configuration file converter.  
  Rewrite of sensors-detect.  
  Support for multiple configuration files in libsensors.

1.872 log-rotate 3.8.6-17.el7

1.872.1 Available under license:

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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1.881 perl-pod-simple 3.28-4.el7

1.882 libgnome 2.32.1-9.el7

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1.892 gnome-clocks 3.28.0-1.el7

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/**
 * [@link FactoryBean] that obtains a WebSphere [@link javax.management.MBeanServer]
 * reference through WebSphere's proprietary <code>AdminServiceFactory</code> API,
 * available on WebSphere 5.1 and higher.
 * 
 * &lt;p&gt;Exposes the &lt;code&gt;MBeanServer&lt;/code&gt; for bean references.
 * This FactoryBean is a direct alternative to [@link MBeanServerFactoryBean],
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 * 
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see com.ibm.websphere.management.AdminServiceFactory#getMBeanFactory()
 * @see com.ibm.websphere.management.MBeanFactory#getMBeanServer()
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
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1.912 libsigar 1.6.2

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public

DomainClientImpl(InetAddress address, int port) {
    public DomainClientImpl(InetAddress address, int port, CallbackHandler handler) {
    public DomainClientImpl(ModelControllerClient delegate) {
        public

    }  

DomainDeploymentManager getDeploymentManager() {

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1.922 jbosgi-deployment 1.3.0.Final-redhat-1

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Found in path(s):
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-
  jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/CtField.java
*/
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* /opt/cola/permits/1110677174_1606843766.77/0/javassist-3-18-1-ga-sources-3-jar/javassist/bytecode/annotation/BooleanMemberValue.java
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* /opt/ws_local/PERMITS_SQL/1077230042_1601397031.95/0/jackson-mapper-asl-1-9-9-redhat-2-sources-
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1.947 totem 3.26.2-1.el7

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- Added exception clause to src/plugins/*.[ch]
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1.956 libtool 2.4.2-22.el7_3
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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/collection/ForwardingNavigableSet.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/base/MediumCharMatcher.java
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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/o\-guava-13-0-1-redhat-1-sources-jar/com/google/common/collection/ForwardingImmutableSet.java
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As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's java.util.HashMap class.

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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources.jar/com/google/common/collect/ImmutableAsList.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources.jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources.jar/com/google/common/base/Platform.java

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* Rationale for copying:
* Guava targets JDK5, whose AbstractExecutorService class lacks the newTaskFor protected
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* AbstractExecutorService from the JSR166 CVS repository. It contains the desired methods.
*/

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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-
jar/com/google/common/collection/Range.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-
jar/com/google/common/collection/ImmutableMapEntrySet.java
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jar/com/google/common/collection/Platform.java
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jar/com/google/common/primitives/Doubles.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-
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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-
jar/com/google/common/collection/ImmutableMapKeySet.java
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jar/com/google/common/collection/TreeBasedTable.java
* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-
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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/collect/AbstractMultimap.java
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* /opt/ws_local/PERMITS_SQL/1077219631_1601370762.97/0/guava-13-0-1-redhat-1-sources-jar/com/google/common/util/concurrent/ExecutionList.java
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modules/audio_coding/codecs/g711/main/source/g711.h
modules/audio_coding/codecs/g722/main/source/g722_decode.c
modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
modules/audio_coding/codecs/g722/main/source/g722_encode.c
modules/audio_coding/codecs/isac/main/source/fft.c
modules/audio_device/mac/portaudio/pa_memorybarrier.h
modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h
modules/audio_processing/ace/ace_rdft.c
system_wrappers/source/condition_variable_event_win.cc
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*
* From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
* Date: Fri, Jun 24, 2011 at 3:20 AM
* Subject: Re: sqrt routine
* To: Kevin Ma <kma@google.com>
* Hi Kevin,
* Thanks for asking. Those routines are public domain (originally posted to
* comp.sys.arm a long time ago), so you can use them freely for any purpose.
* Cheers,
* Wilco
*
* ----- Original Message ----- 
* From: "Kevin Ma" <kma@google.com>
* To: <Wilco.Dijkstra@ntlworld.com>
* Sent: Thursday, June 23, 2011 11:44 PM
* Subject: Fwd: sqrt routine
* Hi Wilco,
* I saw your sqrt routine from several web sites, including
* http://www.finesse.demon.co.uk/steven/sqrt.html.
* Just wonder if there's any copyright information with your Successive
* approximation routines, or if I can freely use it for any purpose.
* Thanks.
* Kevin
*/

Files:
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License:
/*
* SpanDSP - a series of DSP components for telephony
*
* g711.h - In line A-law and u-law conversion routines
*
* Written by Steve Underwood <steveu@coppice.org>
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modules/audio_coding/codecs/g722/main/source/g722_enc_dec.h
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License:
/*
* SpanDSP - a series of DSP components for telephony
*
* g722_decode.c - The ITU G.722 codec, decode part.
*
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*
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* Copyright (c) CMU 1993
* Computer Science, Speech Group
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modules/audio_device/mac/portaudio/pa_ringbuffer.c
modules/audio_device/mac/portaudio/pa_ringbuffer.h

License:
/*
* $Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
* Portable Audio I/O Library
* Memory barrier utilities
*
* Author: Bjorn Roche, XO Audio, LLC
*
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/*
* $Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $  
* Portable Audio I/O Library
* Ring Buffer utility.
*
* Author: Phil Burk, http://www.softsynth.com
* modified for SMP safety on Mac OS X by Bjorn Roche
* modified for SMP safety on Linux by Leland Lucius
* also, allowed for const where possible
* modified for multiple-byte-sized data elements by Sven Fischer
* 
* Note that this is safe only for a single-thread reader and a
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd pname_to uid.c
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- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
and the initial implementation of incremental propagation, including
the following new or changed files:

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
    lib/kdb/kdb_log.h
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* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.070/netty-codec-http-4-1-49-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.070/netty-codec-http-4-1-49-final-sources-1-
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.070/netty-codec-http-4-1-49-final-sources-1-
  java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.070/netty-codec-http-4-1-49-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateClientExtensionHandshaker.j
  ava
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  jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandler.java
* /opt/ws_local/PERMITS_SQL/1068497222_1594393092.070/netty-codec-http-4-1-49-final-sources-1-
  jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/pattern/NodeTypeTest.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/NotFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultPrecedingAxis.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/dom/DOMXPath.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/UnionExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/Predicated.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/iter/IterableParentAxis.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/BaseXPath.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultLessThanEqualExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/LocationPath.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultLogicalExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/pattern/NamespaceTest.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/LinkedIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/ext/LocaleFunctionSupport.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/TranslateFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/NamespaceContext.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/LocalNameFunction.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultAllNodeStep.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/iter/IterableAncestorAxis.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/TrueFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/SubstringAfterFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/SumFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultPlusExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/AllNodeStep.java

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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/FunctionCallException.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/pattern/NodeTest.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/pattern/AnyNodeTest.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/pattern/UnionPattern.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/NormalizeSpaceFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/EqualityExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/Predicate.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/NumberFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/AncestorAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/pattern/AnyChildNodeTest.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/javadoc/JavaBeanXPath.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultUnionExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/dom/TextNode.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultArithExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultRelationalExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/CountFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultDivExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/ContainsFunction.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/function/RoundFunction.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/ProcessingInstructionNodeStep.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/CommentNodeStep.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultEqualsExpr.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultNameStep.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/Context.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/iter/IterableChildAxis.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/XPath.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/ContextSupport.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen/javabean/DocumentNavigator.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/FollowingAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/dom4j/DocumentNavigator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/DescendantAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/dom/DocumentNavigator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/DescendantOrSelfAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/util/PrecedingAxisIterator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/Navigator.java

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* 
* $Id$
* */

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jar/org/jaxen/expr/NodeComparator.java
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*
*$Id$
*/

Found in path(s):
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultMinusExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultXPathFactory.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/AdditiveExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultModExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/base/Token.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/base/XPathLexer.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/
jar/org/jaxen/expr/PredicateSet.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultNumberExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/NumberExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/XPathSyntaxException.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultPathExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/XPathReader.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/base/XPathReader.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/Axis.java
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* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultAdditiveExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/Axis.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/Operator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultAdditiveExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/Axis.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/Operator.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultAbsoluteLocationPath.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/XPathEventSource.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultLocationPath.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/expr/DefaultMultiplyExpr.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/XPathFactory.java
* /opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-jar/org/jaxen/saxpath/SAXPathException.java

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Found in path(s):
  */opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-
  jar/org/jaxen/expr/DefaultFunctionCallExpr.java
  */opt/cola/permits/1132217679_1613127051.64/0/jaxen-1-1-3-redhat-3-sources-
jar/org/jaxen/saxpath/base/TokenTypes.java

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1.989 golang-protobuf-extensions 1.0.0

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* /opt/cola/permits/1095753836_1601493786.79/0/jline-builtins-3-15-0-sources-jar/org/jline/builtins/JlineCommandRegistry.java
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1.993 aesh 0.33.8.redhat-1

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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/AbstractPooledDerivedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/PooledSlicedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/PooledDuplicatedByteBuf.java

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* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/ByteBufAllocatorMetricProvider.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-jar/io/netty/buffer/ByteBufAllocatorMetric.java

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  jar/io/netty/buffer/PoolChunk.java
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  jar/io/netty/buffer/UnpooledHeapByteBuf.java
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  jar/io/netty/buffer/AbstractByteBufAllocator.java
* /opt/ws_local/PERMITS_SQL/1068232274_1594324101.89/0/netty-buffer-4-1-49-final-sources-1-
  jar/io/netty/buffer/PooledByteBuf.java
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  src/preproc/grn/gprint.h
  src/preproc/grn/hdb.cpp
  src/preproc/grn/hgraph.cpp
  src/preproc/grn/hpoint.cpp
  src/preproc/grn/main.cpp

- The `xditview' output device.  It is based on X11's `xditview' program
  and thus has the X license.

  src/devices/xditview/DESC.in
  src/devices/xditview/Dvi.c
  src/devices/xditview/Dvi.h
  src/devices/xditview/DviP.h
  src/devices/xditview/FontMap
  src/devices/xditview/GXditview.ad
  src/devices/xditview/Menu.h
  src/devices/xditview/ad2c
  src/devices/xditview/device.c
  src/devices/xditview/device.h
  src/devices/xditview/draw.c
  src/devices/xditview/font.c
  src/devices/xditview/gray1.bm
  src/devices/xditview/gray2.bm
  src/devices/xditview/gray3.bm
  src/devices/xditview/gray4.bm
  src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages
---------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>' (for TeX), e.g., `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

The patterns have been converted to a format groff can understand.

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/svhyph.tex

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

http://dante.ctan.org/CTAN/macros/cstex/base/csplain.tar.gz

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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^L

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work
      based on the Library, uncombined with any other library
      facilities. This must be distributed under the terms of the
      Sections above.

   b) Give prominent notice with the combined library of the fact
      that part of it is a work based on the Library, and explaining
      where to find the accompanying uncombined form of the same work.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner
It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 51741
Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> >=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> =-mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didn't notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=20
library to dictact to application writes what license they should be using.=20
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro =20
maintainers to get together with Alec in a conversation and come to a =20
decision as to what licensing scheme y'all want. I haven't really done =20
much other than cleaning up the packaging and patches and a small bit of =20
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> >
On Monday 01 October 2007, Neulinger, Nathan wrote:

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

The original license (before moving to sourceforge -- aka, 2.7) was not GPL-2 ... it was a modified artistic license ... i didn't notice the license change until it was mentioned in the latest notes.

Unlike the old license, GPL-2 prevents people from using cracklib unless their applications are also GPL-2 which IMO is just wrong. It isn't the place of a library to dictate to application writes what license they should be using.

Thus LGPL-2.1 enters to fill this void.

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting...
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> >
> I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Fryssinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
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> > What I am hearing so far is that LGPL makes sense, since it can be
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> > My apologies for not chiming in in anything resembling a reasonable
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> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >>
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so we
> > make the change now ?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxptr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

----------
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
----------
Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=

r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> =20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=G2
GPL-2 ... it was a modified artistic license ... i didn't notice the license=
=G2
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=G2
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a=G2
library to dictate to application writes what license they should be using.=
=G2
thus LGPL-2.1 enters to fill this void.
=G2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=G2

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> =G2
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > > it was enough to just get it consistent and documented as to what
> > it was
> > > released under. This wasn't actually a license change, just a
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> > =20
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > > not
> > > GPL-2 ... it was a modified artistic license ... i didn't notice the
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> > =20
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> > > unless their
> > > applications are also GPL-2 which imo is just wrong. it isn't the
> > > place of a
> > > library to dictate to application writes what license they should
> > > be using.
> > > thus LGPL-2.1 enters to fill this void.
> > > -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
  
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
  > On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be linked with any code, not just GPL...

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In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> yes, go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes, go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

--------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
--------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
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   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 11cOcX-0004Qt-6L
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
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The primary author and maintainer of six is Benjamin Peterson. He would like to
acknowledge the following people who submitted bug reports, pull requests, and
otherwise worked to improve six:

Marc Abramowitz
Alexander Artemenko
Aymeric Augustin
Ned Batchelder
Jason R. Coombs
Julien Danjou
Ben Darnell
Ben Davis
Tim Graham
Thomas Grainger
Joshua Harlow
Anselm Kruis
Alexander Lukanin
James Mills
Sridhar Ratnakumar
Erik Rose
Peter Ruibal
Miroslav Shubernetskiy

If you think you belong on this list, please let me know! --Benjamin
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  51757

1.1014 pam 1.1.8-3.6ubuntu2.18.04.2

1.1014.1 Available under license:

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
   close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+   int retval = PAM_IGNORE, rc;
+   char *user = NULL;
+   char *dir = NULL;
+   char *flag = NULL;
+   struct passwd *pwd = NULL;
+   struct stat s;
+   int f;
+   /* Get the user name to determine if we need to print the disclaimer */
+   rc = pam_get_item(pamh, PAM_USER, &user);
+   if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+   {
+      PAM_MODUTIL_DEF_PRIVS(privs);
+      /* Get the password entry */
+      pwd = pam_modutil_getpwnam (pamh, user);
+      if (pwd != NULL)
+      {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd))
+         {
+            pam_syslog(pamh, LOG_ERR,
+                  "Unable to change UID to %d temporarily\n",
+                  pwd->pw_uid);
+            retval = PAM_SESSION_ERR;
+            goto finished;
+         }
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+            goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+            goto finished;
+         if (stat(flag, &s) != 0)
+         {
+            display_file(pamh, "/etc/legal");
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                  S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            if (f>=0) close(f);
+         }
+      }
+      if (asprintf(&dir, "%s/cache", pwd->pw_dir) == -1 || !dir)
+         goto finished;
+      if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+         goto finished;
+      if (stat(flag, &s) != 0)
+      {
+         display_file(pamh, "/etc/legal");
+         mkdir(dir, 0700);
+         f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+               S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+         if (f>=0) close(f);
+      }
+      goto finished;
+   }
+finished:
+    if (pam_modutil_regain_priv(pamh, &privs)) {
+        pam_syslog(pamh, LOG_ERR,
+                   "Unable to change UID back to %d\n", privs.old_uid);
+        retval = PAM_SESSION_ERR;
+    }
+    _pam_drop(flag);
+    _pam_drop(dir);
+}
+return retval;
+
+PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
        /* Display the updated motd */
        display_file(pamh, motd_path);
+
        /* Display the legal disclaimer only if necessary */
        retval = display_legal(pamh);
        return retval;
    }
This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 51761
1.1015 libdwarf 20130207-4.el7
1.1015.1 Available under license:

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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

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

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jar/org/opensaml/ws/wssecurity/impl/EncryptedHeaderBuilder.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wstrust/impl/AuthenticationTypeImpl.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wssecurity/impl/EncryptedHeaderUnmarshaller.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

jar/org/opensaml/ws/wssecurity/Username.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/wsfed/WSFedObject.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/wssecurity//impl/TransformationParametersUnmarshaller.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/wssecurity//impl/CreatedUnmarshaller.java
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* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/wssecurity/impl/KeyIdentifierImpl.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/wsfed/WSFedObject.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/wssecurity/impl/CreatedImpl.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/wsfed/WSFedObject.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/wsfed/WSFedObject.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/wsfed/WSFedObject.java
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 51812
jar/org/opensaml/ws/wssecurity/impl/SecurityTokenReferenceUnmarshaller.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/soap/common/SOAPObject.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/soap/client/http/HttpSOAPRequestParameters.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wspolicy/impl/AbstractWSPolicyObjectMarshaller.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wsaddressing/impl/ReplyToMarshaller.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wsfed/impl/EndPointReferenceMarshaller.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wstrust/impl/KeySizeBuilder.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/soap/soap11/impl/FaultBuilder.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
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* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wstrust/impl/IssuedTokensBuilder.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wsaddressing/impl/AttributedQNameImpl.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenCollectionImpl.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponseUnmarshaller.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wsfed/WSFedConstants.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wstrust/RequestedAttachedReference.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wstrust/impl/RequestTypeUnmarshaller.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wstrust/impl/ParticipantsImpl.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wsfed/impl/AppliesToMarshaller.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wsfed/impl/RequestTypeUnmarshaller.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/soap/soap11/impl/HeaderBuilder.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wstrust/impl/ParticipantsImpl.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponse.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponse.java
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-
jar/org/opensaml/ws/wsfed/impl/RequestSecurityTokenResponse.java
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Found in path(s):
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/wssecurity/package.html
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*/
/** Confidential flag. */

Found in path(s):
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/org/opensaml/ws/transport/BaseTransport.java
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Found in path(s):
* /opt/cola/permits/1132217541_1613127065.44/0/openws-1-4-4-redhat-2-sources-jar/META-INF/maven/org.opensaml/openws/effective-pom.xml
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/**
 * Indicates whether this encoder, given the current message context, provides end-to-end message confidentiality.
 * @param messageContext the current message context
 * @return true if the encoder provides end-to-end message confidentiality, false if not
 * @throws MessageEncodingException thrown if the encoder encounter an error while attempt to evaluate its
ability
 * to provide message confidentiality.
 */

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* limitations under the License.
*/
/**
 * Gets whether the transport represents a confidential connection (e.g. an SSL connection).
 */
* @return whether the transport represents a confidential connection
*/
/**
 * Sets whether the transport represents a confidential connection.
 *
 * @param isConfidential whether the transport represents a confidential connection
 */

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

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private String confidentiality = CONFIDENTIALITY_NONE; * Get the confidentiality. * @return the confidentiality.
public String getConfidentiality() return confidentiality; * @param confidentiality the confidentiality. * @throws IllegalArgumentException for a null confidentiality public void setConfidentiality(String confidentiality)
if (confidentiality == null) throw new IllegalArgumentException("Null confidentiality"); if (CONFIDENTIALITY_NONE.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_NONE; else if (CONFIDENTIALITY_SUPPORTED.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_SUPPORTED; else if (CONFIDENTIALITY_REQUIRED.equalsIgnoreCase(confidentiality)) this.confidentiality = CONFIDENTIALITY_REQUIRED; throw new IllegalArgumentException("Unknown transport confidentiality: "+ confidentiality);

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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
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Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

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

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

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

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

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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1.1042 ding-libs 1.3.1-32.el7

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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1.1055 bctls-fips 1.0.10
1.1055.1 Available under license:

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public static final ProtocolName WEBRTC_CONFIDENTIAL = asUtf8Encoding("c-webrtc");

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$Id: LICENSE.txt,v 1.11 2004/02/06 09:32:57 jhunter Exp$

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*/

1.1057 jdk-zulu 8.50.0.51

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Ty Coon, President of Vice

That's all there is to it!

1.1061 opensaml-java 2.5.3.redhat-2
1.1061.1 Available under license:

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*/
/**
 * Overrides binding confidentiality. */
/**
 * @return true iff the encoder cannot provide confidentiality
 */
/**
 * @param flag override flag
 */

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1.1062 netty-transport-native-unix-common
4.1.46.Final

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* /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/netty_unix_errors.c
* /opt/ws_local/PERMITS_SQL/1068459520_1594389504.49/0/netty-transport-native-unix-common-4-1-46-final-sources-1-jar/netty_unix_socket.h
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1.1063 gnutls 3.5.18-1ubuntu1.4

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# Constant-time SSSE3 AES core implementation.
#
# version 0.1
#
# By Mike Hamburg (Stanford University), 2009
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* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/type/MimeType.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/util/concurrent/NullableListenableFuture.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/style/ToStringCreator.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/util/xml/StaxStreamXMLReader.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/OrderComparator.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/env/EnumerablePropertySource.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/env/PropertySource.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/env/MapPropertySource.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/io/DefaultResourceLoader.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/util/xm/ToCollectionConverter.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/env/PropertySource.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/util/OrderComparator.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/util/xml/StaxStreamXMLReader.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/io/support/ObjectToCollectionConverter.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/env/EnumerablePropertySource.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/util/CollectionUtils.java
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* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3.jar/org/springframework/core/util/ResourceUtils.java

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* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3.jar/org/springframework/core/annotation/AnnotationUtils.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3.jar/org/springframework/core/NestedIOException.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3.jar/org/springframework/core/type/classreading/AnnotationMetadataReadingVisitor.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3.jar/org/springframework/framework/util/backoff/BackOff.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3.jar/org/springframework/framework/util/StringUtils.java
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* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3.jar/org/springframework/util/ResizableByteArrayOutputStream.java
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* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3.jar/org/springframework/core/io/support/EncodedResource.java

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jar/org/springframework/asm/MethodVisitor.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4.1.5-release-sources-3-
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* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3-jar/org/springframework/core/convert/support/NumberToNumberConverterFactory.java
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* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3-jar/org/springframework/core/io/InputStreamSource.java
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* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3.jar/org/springframework/core/convert/support/AbstractStaxXMLReader.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3.jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3.jar/org/springframework/framework/util/WeakReferenceMonitor.java
* /opt/cola/permits/1136652684_1613848836.97/0/spring-core-4-1-5-release-sources-3.jar/org/springframework/framework/core/io/InputStreamResource.java
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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.
The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

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Preamble

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

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the "copyright" line and a pointer to where the full notice is found.

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1.1084 polkit 0.112-22.el7_7.1
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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

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

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
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1.1125 guava 25.0-jre

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/**
* Not supported. <b>You are attempting to create a map that may contain a non-[@code Comparable] key.</b>
* Proper calls will resolve to the version in [@code ImmutableSortedMap], not this dummy version.
*
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type [@code Comparable] to use [@link ImmutableSortedMap#of(Comparable, Object)].</b>
*/

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ComparatorOrdering.java
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* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/AbstractListMultimap.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/collection/HashMultiset.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ComputationException.java
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  jar/com/google/common/collection/JdkBackedImmutableBiMap.java
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  jar/com/google/common/math/LongMath.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/MoreObjects.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/Platform.java

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/HashMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/MapMultiset.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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Outer class that exists solely to let us write [@code Partially.GwtIncompatible] instead of plain [@code GwtIncompatible]. This is more accurate for [@link Futures#catching], which is available under GWT but with a slightly different signature.

We can't use [@code PartiallyGwtIncompatible] because then the GWT compiler wouldn't recognize it as a [@code GwtIncompatible] annotation. And for [@code Futures.catching], we need the GWT compiler to autostrip the normal server method in order to expose the special, inherited GWT version.

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/opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/util/concurrent/ImmediateFuture.java
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* */
/**
* Holder for extra methods of {code Objects} only in web. Intended to be empty for regular
* version.
*/

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  jar/com/google/common/base/ExtraObjectsMethodsForWeb.java
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  jar/com/google/common/collection/UnmodifiableListIterator.java
* /opt/cola/permits/1110675684_1606843710.64/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/RowSortedTable.java
* /opt/cola/permits/1110675684_1606843710.64/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/AbstractSequentialIterator.java
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  jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1110675684_1606843710.64/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/SortedMapDifference.java
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  jar/com/google/common/collection/ForwardingImmutableCollection.java
* /opt/cola/permits/1110675684_1606843710.64/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1110675684_1606843710.64/guava-25-0-jre-sources-4-
  jar/com/google/common/collection/ForwardingSetMultimap.java
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  jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1110675684_1606843710.64/guava-25-0-jre-sources-4-
  jar/com/google/common/hash/AbstractHashFunction.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4.jar/com/google/common/primitives/ImmutableIntArray.java

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/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODo(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 *
*/

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  jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Predicates.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Objects.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/base/Function.java
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* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Functions.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/base/Throwables.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/package-info.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/eventbus/DeadEvent.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/Network.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/TopKSelector.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/graph/Graph.java
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
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 */

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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
  jar/com/google/common/collect/SortedMultisets.java
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  jar/com/google/common/math/PairedStats.java
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  jar/com/google/common/util/concurrent/RateLimiter.java
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  jar/com/google/common/collect/ImmutableRangeMap.java
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* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/reflect/Element.java
* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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* /opt/cola/permits/110675684_1606843710.64/0/guava-25-0-jre-sources-4-
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jar/com/google/common/util/concurrent/ServiceManager.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-jar/com/google/common/escape/ArrayBasedEscaperMap.java
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* /opt/cola/permits/1110675684_1606843710.64/0/guava-25-0-jre-sources-4-
jar/com/google/common/base/Joiner.java
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  jar/com/google/common/collection/Streams.java

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  jar/com/google/common/collection/AbstractNavigableMap.java
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1.1126 stax 4.2

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The 55 level includes words from Alan's 2of4brif list found in version 4.0 of his 12dicts package. Like his other stuff the 2of4brif is also in the public domain.

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The 70 level includes Brian's frequency class 0 and the 74,550 common dictionary words from the MWords package. The common dictionary words, like those from the 12Dicts package, have had all likely inflections added. The 70 level also included the 5desk list from version 4.0 of the 12Dicts package which is the public domain.

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The author has also released the source code to "anagram" and "multi" (multiple word anagram) into the Public Domain. He had previously posted these utilities on the "alt.sources" newsgroup in shar archive form.

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Open-vm-tools v10.3.0

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1.1155 yamlbeans 1.09

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1.1166 glibc 2.17

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

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*/

#include <glibmm/object.h>
#include <giomm/cancellable.h>
#include <giomm/asyncresult.h>

#include <gio/gio.h>

namespace Gio {

/** An object representing the permission to perform a certain action.
 * 
 */

//

} // namespace Gio
* A Permission represents the status of the caller's permission to
  * perform a certain action.
  *
  * You can query if the action is currently allowed and if it is
  * possible to acquire the permission so that the action will be allowed
  * in the future.
  *
  * There is also an API to actually acquire the permission and one to
  * release it.
  *
  * As an example, a Permission might represent the ability for the
  * user to write to a Settings object. This Permission object could
  * then be used to decide if it is appropriate to show a "Click here to
  * unlock" button in a dialog and to provide the mechanism to invoke
  * when that button is clicked.
  *
  * @newin{2,42}
  */

class Permission : public Glib::Object
{
_CLASS.GOBJECT(Permission, GPermission, G_PERMISSION, Glib::Object, GObject)

public:

.WrapMethod(bool acquire(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_acquire, errthrow)
.WrapMethod(void acquire_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.?}), g_permission_acquire_async, slot_name slot, slot_callback SignalProxy.async_callback)
.WrapMethod(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_acquire_finish, errthrow)
.WrapMethod(bool release(const Glib::RefPtr<Cancellable>& cancellable{?}), g_permission_release, errthrow)
.WrapMethod(void release_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.?}), g_permission_release_async, slot_name slot, slot_callback SignalProxy.async_callback)
.WrapMethod(bool release_finish(const Glib::RefPtr<AsyncResult>& result), g_permission_release_finish, errthrow)
.WrapMethod(bool get_allowed() const, g_permission_get_allowed)
.WrapMethod(bool get_can_acquire() const, g_permission_get_can_acquire)
.WrapMethod(bool get_can_release() const, g_permission_get_can_release)

.WrapProperty("allowed", bool)
.WrapProperty("can-acquire", bool)
.WrapProperty("can-release", bool)
protected:

__CTOR_DEFAULT

// A copy is needed for vfuncs, i.e. Glib::wrap($3, true)
#m4 __CONVERSION(`GAsyncResult*`, `const Glib::RefPtr<AsyncResult>&`, `Glib::wrap($3, true)`)  
#m4 __CONVERSION(`GCancellable*`, `const Glib::RefPtr<Cancellable>&`, `Glib::wrap($3, true)`)  

__WRAP_VFUNC(bool acquire(const Glib::RefPtr<Cancellable>& cancellable), acquire, errthrow)  
__WRAP_VFUNC(void acquire_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.}), acquire_async, slot_name slot, slot_callback SignalProxy_async_callback)  
__WRAP_VFUNC(bool acquire_finish(const Glib::RefPtr<AsyncResult>& result), acquire_finish, errthrow)  
__WRAP_VFUNC(bool release(const Glib::RefPtr<Cancellable>& cancellable), release, errthrow)  
__WRAP_VFUNC(void release_async(const SlotAsyncReady& slot{callback}, const Glib::RefPtr<Cancellable>& cancellable{.}), release_async, slot_name slot, slot_callback SignalProxy_async_callback)  
__WRAP_VFUNC(bool release_finish(const Glib::RefPtr<AsyncResult>& result), release_finish, errthrow)  

// You should never call this function except from a Gio::Permission implementation.  
__WRAP_METHOD(void impl_update(bool allowed, bool can_acquire, bool can_release), g_permission_impl_update)  
};  
} // namespace Gio

1.1179 libgom 0.3.3-1.el7
1.1179.1 Available under license :

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Version 2.1, February 1999

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1.1180 libunistring 0.9.3-9.el7

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package org.libjpeg turbojpeg;

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

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 * This file contains output colorspace conversion routines.
 */

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

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*
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* The PBMPLUS library is NOT required to compile this software
* (but it is highly useful as a set of PPM image manipulation programs).
*
* These routines may need modification for non-Unix environments or
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* an ordinary stdio stream.
*/

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* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
* externally-given color map.
*
* Note: ordered dithering is not supported, since there isn't any fast
* way to compute intercolor distances; it's unclear that ordered dither's
* fundamental assumptions even hold with an irregularly spaced color map.
*/

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* *
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*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jinclude.h
No license file was found, but licenses were detected in source scan.

*/
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file defines the error and message codes for the cjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/cderror.h
No license file was found, but licenses were detected in source scan.

USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
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For conditions of distribution and use, see the accompanying README file.

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

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

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

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Buffered-image mode
Abbreviated datastreams and multiple images
You should read at least the overview and basic usage sections before trying to program with the library. The sections on advanced features can be read if and when you need them.

OVERVIEW
========

Functions provided by the library
--------------------------------

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

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

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

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common
use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios
We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the
datastream header is a separate step. This is helpful because information
about the image's size, colorspace, etc is available when the application
selects decompression parameters. For example, the application can choose an
output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source
manager, which typically will read the data from a file; but other behaviors
can be obtained with a custom source manager. Decompressed data is delivered
into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation
by calling jpeg_abort(); or, if you do not need to retain the JPEG object,
simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types.
However, they share some common fields, and certain routines such as
jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression
or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG
objects.

Both compression and decompression can be done in an incremental memory-to-
memory fashion, if suitable source/destination managers are used. See the
section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
====================

Data formats
-------------

Before diving into procedural details, it is helpful to understand the
image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each
pixel having the same number of "component" or "sample" values (color channels). You must specify how many components there are and the colorspace interpretation of the components. Most applications will use RGB data (three components per pixel) or grayscale data (one component per pixel).

PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE. A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However, JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel;
its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE (ie, at most 256 colors for an 8-bit JPEG library).

Compression details
---------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

   A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc()

   You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_errorMgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

   You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

   Typical code for this step, if you are using the default error handler, is

   ```
   struct jpeg_compress_struct cinfo;
   struct jpeg_error_mgr jerr;
   ...
   cinfo.err = jpeg_std_error(&jerr);
   jpeg_create_compress(&cinfo);
   ```

   jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

   2. Specify the destination for the compressed data (eg, a file).
As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.

If you use the standard destination module, you must open the target stdio stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the output file unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3), if that's more convenient. You may not change the destination between calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions of 1 to 64K pixels in either direction. The input color space is typically RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special color spaces", later, for more info.) The `in_color_space` field must be assigned one of the `J_COLOR_SPACE` enum constants, typically JCS_RGB or JCS_GRAYSCALE.
JPEG has a large number of compression parameters that determine how the image is encoded. Most applications don't need or want to know about all these parameters. You can set all the parameters to reasonable defaults by calling jpeg_set_defaults(); then, if there are particular values you want to change, you can do so after that. The "Compression parameter selection" section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There's no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

```c
  cinfo.image_width = Width; /* image width and height, in pixels */
  cinfo.image_height = Height;
  cinfo.input_components = 3; /* # of color components per pixel */
  cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

  jpeg_set_defaults(&cinfo);
  /* Make optional parameter settings here */
```

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

```c
  jpeg_start_compress(&cinfo, TRUE);
```

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)

```c
  jpeg_write_scanlines(...);
```
Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.

Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height)".

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1];  /* pointer to a single row */
int row_stride;  /* physical row width in buffer */

row_stride = image_width * 3;  /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

jpeg_write_scanlines() returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);
After all the image data has been written, call jpeg_finish_compress() to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. jpeg_finish_compress() also releases working memory associated with the JPEG object.

Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.
Typical code:

```c
jpeg_destroy_compress(&cinfo);
```

8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call `jpeg_destroy_compress()` or `jpeg_destroy()` to release memory. This is legitimate at any point after calling `jpeg_create_compress()` --- in fact, it's safe even if `jpeg_create_compress()` fails.

* If you want to re-use the JPEG object, call `jpeg_abort_compress()`, or call `jpeg_abort()` which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. `jpeg_abort()` is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call `term_destination()`.

(See "Compressed data handling", below, for more about that.)

`jpeg_destroy()` and `jpeg_abort()` are the only safe calls to make on a JPEG object that has reported an error by calling `error_exit` (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details

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

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call `jpeg_create_decompress()`. Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
```
2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
...
if ((infile = fopen(filename, "rb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning
of the compressed data proper. On return, the image dimensions and other
info have been stored in the JPEG object. The application may wish to
close this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header()
  may return before it has read all the header data. See "I/O suspension",
below. The normal stdio source manager will NOT cause this to happen.
* Abbreviated JPEG files are to be processed --- see the section on
  abbreviated datastreams. Standard applications that deal only in
  interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the
image dimensions and other header info for a JPEG file. In that case,
call jpeg_destroy() when you are done with the JPEG object, or call
jpeg_abort() to return it to an idle state before selecting a new data
source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on
the properties of the image (in particular, its colorspace). However, you
may well want to alter these defaults before beginning the decompression.
For example, the default is to produce full color output from a color file.
If you want colormapped output you must ask for it. Other options allow the
returned image to be scaled and allow various speed/quality tradeoffs to be
selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header().
If you reuse a decompression object, you cannot expect your parameter
settings to be preserved across cycles, as you can for compression.
You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to
begin decompression. This will initialize internal state, allocate working
memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color
quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.

After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- `output_width`: image width and height, as scaled
- `output_height`
- `out_color_components`: # of color components in `out_color_space`
- `output_components`: # of color components returned per pixel
- `colormap`: the selected colormap, if any
- `actual_number_of_colors`: number of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as djpeg does), then the manager's protocol requires that you request large buffers *before* calling jpeg_start_decompress(). This is a little tricky since the output_XXX fields are not normally valid then. You can make them valid by calling jpeg_calc_output_dimensions() after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling jpeg_read_scanlines() one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); jpeg_read_scanlines() will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don’t forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application djpeg.
The library maintains a count of the number of scanlines returned so far in the output_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.)
The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.
Typical code:

jpeg_destroy_decompress(&cinfo);


You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc
-----------------------------------------------

Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)
On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.

It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
-------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.
jpeg_default_colorsace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorsace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change just the colorspace-dependent JPEG parameters.

jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

int jpeg_quality_scaling (int quality)
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
Set default quantization tables with linear q_scale_factor[] values (see below).

jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl,
   const unsigned int *basic_table,
   int scale_factor, boolean force_baseline)
Allows an arbitrary quantization table to be created. which_tbl
indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).

CAUTION: prior to library version 6a, jpeg_add_quant_table expected the basic table to be given in JPEG zigzag order. If you need to write code that works with either older or newer versions of this routine, you must check the library version number. Something like 

```
#if JPEG_LIB_VERSION >= 61
```

is the right test.

```
jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file, unless you want to make a custom scan sequence. You must ensure that the JPEG color space is set correctly before calling this routine.
```

Compression parameters (cinfo fields) include:

```
J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method, but may give different results on different machines due to varying roundoff behavior. The integer methods should give the same results on all machines. On machines with sufficiently fast FP hardware, the floating-point method may also be the fastest. The IFAST method is considerably less accurate than the other two; its use is not recommended if high quality is a concern. JDCT_DEFAULT and JDCT_FASTEST are macros configurable by each installation.
```

```
J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see "Special color spaces", below, for more info. We recommend using jpeg_set_color_space() if you want to change these.
```

```
boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables for the image. This requires an extra pass over the data and therefore costs a good deal of space and time. The default is FALSE, which tells the compressor to use the supplied or default Huffman tables. In most cases optimal tables save only a few percent of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do supply will be overwritten.

unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero.
Set restart_interval to specify the exact interval in MCU blocks.
Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts).
One restart marker per MCU row is often a good choice.
NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs.
If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans
By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorsapce() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker.
jpeg_set_defaults() initializes the version to 1.01 (major=minor=1).
You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0, 1, 1 indicating square pixels of unknown size.

boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables().
See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;
JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]

Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used.

Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]

The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.

JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.
int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are
0 for luminance components and 1 for chrominance components.

int component_index
Must equal the component's index in comp_info[]. (Beginning in
release v6, the compressor library will fill this in automatically;
you don't have to.)

Decompression parameter selection
---------------------------------
Decompression parameter selection is somewhat simpler than compression
parameter selection, since all of the JPEG internal parameters are
recorded in the source file and need not be supplied by the application.
(Unless you are working with abbreviated files, in which case see
"Abbreviated datastreams", below.) Decompression parameters control
the postprocessing done on the image to deliver it in a format suitable
for the application's use. Many of the parameters control speed/quality
tradeoffs, in which faster decompression may be obtained at the price of
a poorer-quality image. The defaults select the highest quality (slowest)
processing.

The following fields in the JPEG object are set by jpeg_read_header() and
may be useful to the application in choosing decompression parameters:

JDIMENSION image_width	Width and height of image
JDIMENSION image_height
int num_components	Number of color components
J_COLOR_SPACE jpeg_color_space	Colorspace of image
boolean saw_JFIF_marker	TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version	Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit	Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker	TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform	Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG
standard proper does not provide a way to record it. In practice most files
adhere to the JFIF or Adobe conventions, and the decoder will recognize these
correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the
returned image are:

\texttt{J\_COLOR\_SPACE out\_color\_space}

Output color space. \texttt{jpeg\_read\_header()} sets an appropriate default based on \texttt{jpeg\_color\_space}; typically it will be RGB or grayscale. The application can change this field to request output in a different colorspace. For example, set it to \texttt{JCS\_GRAYSCALE} to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

\texttt{unsigned int scale\_num, scale\_denom}

Scale the image by the fraction \texttt{scale\_num/scale\_denom}. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

\texttt{boolean quantize\_colors}

If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if \texttt{quantize\_colors} is TRUE.

\texttt{int desired\_number\_of\_colors}

Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

\texttt{boolean two\_pass\_quantize}

If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

\texttt{J\_DITHER\_MODE dither\_mode}

Selects color dithering method. Supported values are:

\texttt{JDITHER\_NONE} no dithering: fast, very low quality
\texttt{JDITHER\_ORDERED} ordered dither: moderate speed and quality
\texttt{JDITHER\_FS} Floyd-Steinberg dither: slow, high quality

Default is \texttt{JDITHER\_FS}. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when \texttt{two\_pass\_quantize} is TRUE or when you supply an external color map, you'll get F-S dithering.)
When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress() selects a suitable color map and sets these two fields itself.

[Implementation restriction: at present, an externally supplied colormap is only accepted for 3-component output color spaces.]

```
JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components rows and actual_number_of_colors columns. Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.
```

```
int actual_number_of_colors
The number of colors in the color map.
```

Additional decompression parameters that the application may set include:

```
J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are the same as described above for compression.
```

```
boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components. If FALSE, a faster but sloppier method is used. Default is TRUE. The visual impact of the sloppier method is often very small.
```

```
boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding progressive JPEG files; if FALSE, not. Default is TRUE. Early progression stages look "fuzzy" with smoothing, "blocky" without. In any case, block smoothing ceases to be applied after the first few AC coefficients are known to full accuracy, so it is relevant only when using buffered-image mode for progressive images.
```

```
boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is described in its own section below.
```

The output image dimensions are given by the following fields. These are computed from the source image dimensions and the decompression parameters by jpeg_start_decompress(). You can also call jpeg_calc_output_dimensions()
to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size. It's also important if you are using the JPEG library's memory manager to allocate output buffer space, because you are supposed to request such buffers *before* jpeg_start_decompress().

```c
JDIMENSION output_width
Actual dimensions of output image.
JDIMENSION output_height
int out_color_components
Number of color components in out_color_space.
int output_components
Number of color components returned.
int rec_outbuf_height
Recommended height of scanline buffer.
```

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces

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

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling...
jpeg_set_colorspace(). Of course you must select a supported transformation.
jccolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK

plus the null transforms: GRAYSCALE => GRAYSCALE, RGB => RGB,
YCbCr => YCbCr, CMYK => CMYK, YCCK => YCCK, and UNKNOWN => UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that
indicate the color space of the JPEG file. It is important to ensure that
these are written correctly, or omitted if the JPEG file's color space is not
one of the ones supported by the de-facto standards. jpeg_set_colorspace()
will set the compression parameters to include or omit the APPn markers
properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without
conversion, don't try to fake out the library by setting in_color_space and
jpeg_color_space to JCS_YCbCr; use JCS_UNKNOW. You may want to write an
APPn marker of your own devising to identify the colorspace --- see "Special
markers", below.

When told that the color space is UNKNOWN, the library will default to using
luminance-quality compression parameters for all color components. You may
well want to change these parameters. See the source code for
jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space,
and this is transformed to the output color space out_color_space.
jpeg_read_header's setting of jpeg_color_space can be relied on if the file
conforms to JFIF or Adobe conventions, but otherwise it is no better than a
guess. If you know the JPEG file's color space for certain, you can override
jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also
selects a default output color space based on (its guess of) jpeg_color_space;
set out_color_space to override this. Again, you must select a supported
transformation. jdcolor.c currently supports

YCbCr => RGB
YCbCr => GRAYSCALE
RGB => GRAYSCALE
GRAYSCALE => RGB
YCCK => CMYK

as well as the null transforms. (Since GRAYSCALE=>RGB is provided, an
application can force grayscale JPEGs to look like color JPEGs if it only
wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data
(it weights distances appropriately for RGB colors). You'll need to modify
the code if you want to use it for non-RGB output color spaces. Note that
jquant2.c is used to map to an application-supplied colormap as well as for
the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<->YCCK transform, because that would break other applications, notably Ghostscript.

Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
--------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its
"err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

**error_exit (j_common_ptr cinfo)**
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

**output_message (j_common_ptr cinfo)**
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

**format_message (j_common_ptr cinfo, char * buffer)**
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

**emit_message (j_common_ptr cinfo, int msg_level)**
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly
change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer err->addon_message_table and the message numbers err->first_addon_message and err->last_addon_message. If you number the addon messages beginning at 1000 or so, you won't have to worry about conflicts with the library's built-in messages. See the sample applications cjpeg/djpeg for an example of using addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the error handler struct, then invoke the error_exit() or emit_message() method. The variants of each macro are for varying numbers of additional parameters. The additional parameters are inserted into the generated message using standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)

The JPEG compression library sends its compressed data to a "destination manager" module. The default destination manager just writes the data to a memory buffer or to a stdio stream, but you can provide your own manager to do something else. Similarly, the decompression library calls a "source manager" to obtain the compressed data; you can provide your own source manager if you want the data to come from somewhere other than a memory buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the destination or source manager provides a work buffer, and the library invokes the manager only when the buffer is filled or emptied. (You could define a one-character buffer to force the manager to be invoked for each byte, but that would be rather inefficient.) The buffer's size and location are controlled by the manager, not by the library. For example, the memory source manager just makes the buffer pointer and length point to the original data in memory. In this case the buffer-reload procedure will be invoked only if the decompressor ran off the end of the datastream, which would indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally "char" or "unsigned char". On a machine where char is not exactly 8 bits
wide, you must define JOCTET as a wider data type and then modify the data source and destination modules to transcribe the work arrays into 8-bit units on external storage.

A data destination manager struct contains a pointer and count defining the next byte to write in the work buffer and the remaining free space:

```c
JOCTET * next_output_byte; /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

1. `init_destination (j_compress_ptr cinfo)`
   - Initialize destination. This is called by `jpeg_start_compress()` before any data is actually written. It must initialize `next_output_byte` and `free_in_buffer`. `free_in_buffer` must be initialized to a positive value.

2. `empty_output_buffer (j_compress_ptr cinfo)`
   - This is called whenever the buffer has filled (`free_in_buffer` reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of `next_output_byte` and `free_in_buffer`). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. `free_in_buffer` must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

3. `term_destination (j_compress_ptr cinfo)`
   - Terminate destination --- called by `jpeg_finish_compress()` after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either `next_output_byte` or `free_in_buffer` to determine how much data is in the buffer.

   `term_destination()` is NOT called by `jpeg_abort()` or `jpeg_destroy()`. If you want the destination manager to be cleaned up during an abort, you must do it yourself.

   You will also need code to create a `jpeg_destination_mgr` struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to...
the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count defining the next byte to read from the work buffer and the number of bytes remaining:

```c
const JOCTET * next_input_byte; /* => next byte to read from buffer */
size_t bytes_in_buffer;         /* # of bytes remaining in buffer */
```

The library increments the pointer and decrements the count until the buffer is emptied. The manager's fill_input_buffer method must reset the pointer and count. In most applications, the manager must remember the buffer's starting address and total size in private fields not visible to the library.

A data source manager provides five methods:

`init_source (j_decompress_ptr cinfo)`
Initialize source. This is called by jpeg_read_header() before any data is actually read. Unlike init_destination(), it may leave bytes_in_buffer set to 0 (in which case a fill_input_buffer() call will occur immediately).

`fill_input_buffer (j_decompress_ptr cinfo)`
This is called whenever bytes_in_buffer has reached zero and more data is wanted. In typical applications, it should read fresh data into the buffer (ignoring the current state of next_input_byte and bytes_in_buffer), reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been reloaded. It is not necessary to fill the buffer entirely, only to obtain at least one more byte. bytes_in_buffer MUST be set to a positive value if TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this mode is discussed in the next section).

`skip_input_data (j_decompress_ptr cinfo, long num_bytes)`
Skip num_bytes worth of data. The buffer pointer and count should be advanced over num_bytes input bytes, refilling the buffer as needed. This is used to skip over a potentially large amount of uninteresting data (such as an APPn marker). In some applications it may be possible to optimize away the reading of the skipped data, but it's not clear that being smart is worth much trouble; large skips are uncommon. bytes_in_buffer may be zero on return. A zero or negative skip count should be treated as a no-op.

`resync_to_restart (j_decompress_ptr cinfo, int desired)`
This routine is called only when the decompressor has failed to find a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most applications, we recommend that you just use the default resync procedure, jpeg_resync_to_restart(). However, if you are able to back up in the input data stream, or if you have a-priori knowledge about the likely location of restart markers, you may be able to do better. Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOI s. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
--------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you
need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.
When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety’s sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().

A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:

* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.

The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a
suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)

If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no
additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc.
The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode
-------------------

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file
adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission rates.

The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output(); /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output(); /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library’s input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()). With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the
buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This is done by changing the library parameters before the final output pass. Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such until after it is read, so a post-input display pass is the best approach if you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can cause the library to decode input data in advance of what’s needed to produce output. This is done by calling the routine jpeg_consume_input(). The return value is one of the following:

- JPEG_REACHED_SOS: reached an SOS marker (the start of a new scan)
- JPEG_REACHED_EOI: reached the EOI marker (end of image)
- JPEG_ROW_COMPLETED: completed reading one MCU row of compressed data
- JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
- JPEG_SUSPENDED: suspended before completing any of the above

(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:
- You can limit buildup of unprocessed data in your input buffer.
- You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)
When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library's output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.
When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

do {
    absorb any waiting input by calling jpeg_consume_input()
    final_pass = jpeg_input_complete(&cinfo);
    adjust output decompression parameters if required
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:

for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().) In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper. In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.
When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However, many other strategies are possible. For example, the application can examine the parameters of the current input scan and decide whether to display it or not. If the scan contains only chroma data, one might choose not to use it as the target scan, expecting that the scan will be small and will arrive quickly. To skip to the next scan, call jpeg_consume_input() until it returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher number as the target scan for jpeg_start_output(); but that method doesn't let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and thus never suspends. An application that uses input suspension with buffered-image mode must be prepared for suspension returns from these routines:
* jpeg_start_output() performs input only if you request 2-pass quantization and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan, up to the end of the file or the SOS marker that begins another scan. (But it reads no input if jpeg_consume_input() has already reached the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can suspend if the end hasn't already been reached (as can be tested by calling jpeg_input_complete()).

jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress() all return TRUE if they completed their tasks, FALSE if they had to suspend. In the event of a FALSE return, the application must load more input data and repeat the call. Applications that use non-suspending data sources need not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the buffered-image mode. The decoder library currently supports only very limited changes of parameters. ONLY THE FOLLOWING parameter changes are allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output(). For example, one could use a fast DCT method for early scans, changing to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output(); of course this has no impact if not using color quantization. Typically one would use ordered dither for initial passes, then switch to Floyd-Steinberg dither for the final pass. Caution: changing dither mode...
can cause more memory to be allocated by the library. Although the amount of memory involved is not large (a scanline or so), it may cause the initial max_memory_to_use specification to be exceeded, which in the worst case would result in an out-of-memory failure.

* do_block_smoothing can be changed before each call to jpeg_start_output(). This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.) You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant	Fixed color cube colormap
- enable_external_quant	Externally-supplied colormap
- enable_2pass_quant	Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following
special rules apply:
1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external colormap than was used on the prior pass, you must call jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmemnobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as
possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)

In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it’ll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it’s basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
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A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a
new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpeg_suppress_tables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
ejpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data..
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and
the abbreviated image file, the same tables are sure to be used. Of course,
you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence
many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman
optimization is selected. (If you could, there'd be no way to decode the
image...) Generally, you don't want to set optimize_coding = TRUE when
you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are
not stored in the application, but are defined in an interchange or
tables-only file readable by the application. This can be done by setting up
a JPEG decompression object to read the specification file, then copying the
tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables
into the decompression object before trying to read the abbreviated image.
If the proper tables are stored in the application program, you can just
allocate the table structs and fill in their contents directly. For example,
to load a fixed quantization table into table slot "n":

if (cinfo.quant_tbl_ptrs[n] == NULL)
cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n];/* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
  /* Qtable[] is desired quantization table, in natural array order */
  quant_ptr->quantval[i] = Qtable[i];
}

Code to load a fixed Huffman table is typically (for AC table "n"):

if (cinfo.ac_huff_tbl_ptrs[n] == NULL)
cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n];/* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
  /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
  huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];

}(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a
column JQUANT_TBL object is not safe. If the incoming file happened to
contain a quantization table definition, your master table would get
overwritten! Instead allocate a working table copy and copy the master table
into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than
hard-wiring them into your application. The jpeg_read_header() call is
sufficient to read a tables-only file. You must pass a second parameter of
FALSE to indicate that you do not require an image to be present. Thus, the
typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains
an image or just tables. In that case, pass FALSE and check the return value
from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found,
JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value,
JPEG_SUSPENDED, is possible when using a suspending data source manager.)
Note that jpeg_read_header() will not complain if you read an abbreviated
image for which you haven't loaded the missing tables; the missing-table check
occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by
repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence,
without releasing/recreating the JPEG object or the data source module.
(If you did reinitialize, any partial bufferload left in the data source
buffer at the end of one image would be discarded, causing you to lose the
start of the next image.) When you use this method, stored tables are
automatically carried forward, so some of the images can be abbreviated images
that depend on tables from earlier images.

If you intend to write a series of images into a single destination file,
you might want to make a specialized data destination module that doesn’t
flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().

Special markers
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Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized --- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write
any marker type, but we don't recommend writing any other kinds of marker.)

For example, to write a user comment string pointed to by comment_text:

\[\text{jpeg_write_marker}(\text{cinfo, JPEG_COM, comment_text, strlen(comment_text)});\]

If it's not convenient to store all the marker data in memory at once, you can instead call `jpeg_write_m_header()` followed by multiple calls to `jpeg_write_m_byte()`. If you do it this way, it's your responsibility to call `jpeg_write_m_byte()` exactly the number of times given in the length parameter to `jpeg_write_m_header()`. (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set `cinfo.JFIF_minor_version = 2` so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:

1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling `jpeg_read_header()`, because the markers of interest will typically be near the head of the file and so will be scanned by `jpeg_read_header`. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call
jpeg_save_markers(cinfo, marker_code, length_limit)
where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n.
(To arrange to save all the special marker types, you need to call this
routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer
than length_limit data bytes, only length_limit bytes will be saved; this
parameter allows you to avoid chewing up memory when you only need to see the
first few bytes of a potentially large marker. If you want to save all the
data, set length_limit to 0xFFFF; that is enough since marker lengths are only
16 bits. As a special case, setting length_limit to 0 prevents that marker
type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by
following the cinfo->marker_list pointer chain. All the special markers in
the file appear in this list, in order of their occurrence in the file (but
omitting any markers of types you didn't ask for). Both the original data
length and the saved data length are recorded for each list entry; the latter
will not exceed length_limit for the particular marker type. Note that these
lengths exclude the marker length word, whereas the stored representation
within the JPEG file includes it. (Hence the maximum data length is really
only 65533.)

It is possible that additional special markers appear in the file beyond the
SOS marker at which jpeg_read_header stops; if so, the marker list will be
extended during reading of the rest of the file. This is not expected to be
common, however. If you are short on memory you may want to reset the length
limit to zero for all marker types after finishing jpeg_read_header, to
ensure that the max_memory_to_use setting cannot be exceeded due to addition
of later markers.

The marker list remains stored until you call jpeg_finish_decompress or
jpeg_abort, at which point the memory is freed and the list is set to empty.
(jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers;
if you try to set a small nonzero length limit on these types, the library
will silently force the length up to the minimum it wants. (But you can set
a zero length limit to prevent them from being saved at all.) Also, in a
16-bit environment, the maximum length limit may be constrained to less than
65533 by malloc() limitations. It is therefore best not to assume that the
effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling
jpeg_set_marker_processor(). A marker processor routine must have the
signature
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
Although the marker code is not explicitly passed, the routine can find it
in cinfo->unread_marker. At the time of call, the marker proper has been
read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
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Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampling image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT
block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)

The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.
* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorscape() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.
* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as
cinfo->comp_info[i].width_in_blocks*DCTSIZE samples per row
cinfo->comp_info[i].height_in_blocks*DCTSIZE rows in image
after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here. Assume 2h2v downsampling of YCbCr data, that is
cinfo->comp_info[0].h_samp_factor = 2 for Y
cinfo->comp_info[0].v_samp_factor = 2
cinfo->comp_info[1].h_samp_factor = 1 for Cb
and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will compute downscaled_width = 101 and width_in_blocks = 13 for Y, downscaled_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.
Really raw data: DCT coefficients

It is possible to read or write the contents of a JPEG file as raw DCT coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().
To write the contents of a JPEG file as DCT coefficients, you must provide
the DCT coefficients stored in virtual block arrays. You can either pass
block arrays read from an input JPEG file by jpeg_read_coefficients(), or
allocate virtual arrays from the JPEG compression object and fill them
yourself. In either case, jpeg_write_coefficients() is substituted for
jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object
jpeg_write_coefficients() is passed a pointer to an array of virtual block
array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before
jpeg_write_coefficients() is called. A side-effect of
jpeg_write_coefficients() is to realize any virtual arrays that have been
requested from the compression object's memory manager. Thus, when obtaining
the virtual arrays from the compression object, you should fill the arrays
after calling jpeg_write_coefficients(). The data is actually written out
when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes
the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization
tables and sampling factors match the way the data was encoded, or the
resulting file will be invalid. For transcoding from an existing JPEG file,
we recommend using jpeg_copy_critical_parameters(). This routine initializes
all the compression parameters to default values (like jpeg_set_defaults()),
then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object
as needing to be written to the output file (thus, it acts like
jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpeg_suppress_tables(), or set the tables'
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so
often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjpeg.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass (the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes will occur inside jpeg_finish_compress or jpeg_start_decompress; those routines may take a long time to execute, and you don't get control back until they are done.

You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don't recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don't pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library's inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

long pass_counter; /* work units completed in this pass */
long pass_limit; /* total number of work units in this pass */
int completed_passes; /* passes completed so far */
int total_passes; /* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as

\[
\frac{\text{completed_passes} + (\text{pass_counter}/\text{pass_limit})}{\text{total_passes}}
\]

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn't always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.
When using the decompressor's buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
-----------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()'d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on
Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a
128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with 32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------

A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.) At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables.
You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
-------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that charis at least 8 bits wide
shortis at least 16 bits wide
intis at least 16 bits wide
longs at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will
work fine, although memory may be used inefficiently if char is much larger
than 8 bits or short is much bigger than 16 bits. The code should work
equally well with 16- or 32-bit ints.

In a system where these assumptions are not met, you may be able to make the
code work by modifying the typedefs in jmorecfg.h. However, you will probably
have difficulty if int is less than 16 bits wide, since references to plain
int abound in the code.

char can be either signed or unsigned, although the code runs faster if an
unsigned char type is available. If char is wider than 8 bits, you will need
to redefine JOCTET and/or provide custom data source/destination managers so
that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters.
But some of the image file I/O modules in cjpeg/djpeg do have ASCII
dependencies in file-header manipulation; so does cjpeg's select_file_type()
routine.

The JPEG library does not rely heavily on the C library. In particular, C
stdio is used only by the data source/destination modules and the error
handler, all of which are application-replaceable. (cjpeg/djpeg are more
heavily dependent on stdio.) malloc and free are called only from the memory
manager "back end" module, so you can use a different memory allocator by
replacing that one file.

The code generally assumes that C names must be unique in the first 15
characters. However, global function names can be made unique in the
first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt,
jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium"
memory models (i.e., data pointers are 16 bits unless explicitly declared
"far"; code pointers can be either size). You may be able to use small
model to compile cjpeg or djpeg by itself, but you will probably have to use
medium model for any larger application. This won't make much difference in
performance. You *will* take a noticeable performance hit if you use a
large-data memory model (perhaps 10%-25%), and you should avoid "huge" model
if at all possible.
The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
 * jidctflt.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a floating-point implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 * This implementation should be more accurate than either of the integer
 * IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend * on the hardware's floating point capacity.
* 
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT * on each row (or vice versa, but it's more convenient to emit a row at * a time). Direct algorithms are also available, but they are much more * complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on Arai, Agui, and Nakajima's algorithm for * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in * Japanese, but the algorithm is described in the Pennebaker & Mitchell * JPEG textbook (see REFERENCES section in file README). The following code * is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is * possible to arrange the computation so that many of the multiplies are * simple scalings of the final outputs. These multiplies can then be * folded into the multiplications or divisions by the JPEG quantization * table entries. The AA&N method leaves only 5 multiplies and 29 adds * to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point * implementation, accuracy is lost due to imprecise representation of the * scaled quantization values. However, that problem does not arise if * we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/114833252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive- ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jmemsys.h
* 
* Copyright (C) 1992-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This include file defines the interface between the system-independent
* and system-dependent portions of the JPEG memory manager. No other
* modules need include it. (The system-independent portion is jmemmgr.c;
* there are several different versions of the system-dependent portion.)
* 
* This file works as-is for the system-dependent memory managers supplied
* in the IJG distribution. You may need to modify it if you write a
* custom memory manager. If system-dependent changes are needed in
* this file, the best method is to #ifdef them based on a configuration
* symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR
* and USE_MAC_MEMMGR.
/*
 * jchuff.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains declarations for Huffman entropy encoding routines
 * that are shared between the sequential encoder (jchuff.c) and the
 * progressive encoder (jcphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jmempys.h
No license file was found, but licenses were detected in source scan.

/*
 * jdmrgext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains code for merged upsampling/color conversion.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdmrgext.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2002-2009 by Guido Vollbeding.
 */
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.

/*
* jcprepct.c
*
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*
* This file contains the compression preprocessing controller.
* This controller manages the color conversion, downsampling,
* and edge expansion steps.
*
* Most of the complexity here is associated with buffering input rows
* as required by the downsampler.  See the comments at the head of
* jcsample.c for the downsampler's needs.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcprepct.c
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/*
* wrbmp.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in Microsoft "BMP"
* format (MS Windows 3.x and OS/2 1.x flavors).
* Either 8-bit colormapped or 24-bit full-color format can be written.
* No compression is supported.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/wrbmp.c
No license file was found, but licenses were detected in source scan.

/*
* jmemmgr.c
 *
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains the JPEG system-independent memory management
* routines. This code is usable across a wide variety of machines; most
* of the system dependencies have been isolated in a separate file.
* The major functions provided here are:
* * pool-based allocation and freeing of memory;
* * policy decisions about how to divide available memory among the
*   virtual arrays;
* * control logic for swapping virtual arrays between main memory and
*   backing storage.
* The separate system-dependent file provides the actual backing-storage
* access code, and it contains the policy decision about how much total
* main memory to use.
* This file is system-dependent in the sense that some of its functions
* are unnecessary in some systems. For example, if there is enough virtual
* memory so that backing storage will never be used, much of the virtual
* array control logic could be removed. (Of course, if you have that much
* memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
* jquant1.c
 *
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* 
* This file contains 1-pass color quantization (color mapping) routines.
* These routines provide mapping to a fixed color map using equally spaced
* color values. Optional Floyd-Steinberg or ordered dithering is available.
* /

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jquant1.c

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Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jcgrass2-64.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jccolss2.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jjiss2flt-64.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jdsamss2.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jcqnt3dn.asm
No license file was found, but licenses were detected in source scan.

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 * POSSIBILITY OF SUCH DAMAGE.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jcclrmx.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jcgrys2.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jiss2flt.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jdmerss2.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jdmerss2.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jf3dnflt.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jfsseflt-64.asm
No license file was found, but licenses were detected in source scan.

TurboJPEG Java Wrapper
-----------------------

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls
---------------------

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)
The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.

**Installation Directory**

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

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):

* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/README
* No license file was found, but licenses were detected in source scan.

/*
 * transupp.c
 *
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 * Modifications:
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains image transformation routines and other utility code
 * used by the jpegtran sample application. These are NOT part of the core
 * JPEG library. But we keep these routines separate from jpegtran.c to
 * ease the task of maintaining jpegtran-like programs that have other user
 * interfaces.
 */

Found in path(s):

* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/transupp.c
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* 3. This notice may not be removed or altered from any source distribution.

Found in path(s):

----------------------
/*
 * rdbmp.c
 *
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 * Modified 2009-2010 by Guido Vollbeding.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Microsoft "BMP"
 * format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
 * Currently, only 8-bit and 24-bit images are supported, not 1-bit or
 * 4-bit (feeding such low-depth images into JPEG would be silly anyway).
 * Also, we don't support RLE-compressed files.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed BMP format).
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S
No license file was found, but licenses were detected in source scan.

/*
 * jddctmgr.c
 *
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 * Modified 2002-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,

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and it performs related housekeeping chores. No code in this file
is executed per IDCT step, only during output pass setup.

Note that the IDCT routines are responsible for performing coefficient
dequantization as well as the IDCT proper. This module sets up the
dequantization multiplier table needed by the IDCT routine.

Found in path(s):
   /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jddctmgr.c
No license file was found, but licenses were detected in source scan.

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This file contains routines to write output images in GIF format.

NOTE: to avoid entanglements with Unisys' patent on LZW compression,
this code has been modified to output "uncompressed GIF" files.
There is no trace of the LZW algorithm in this file.

These routines may need modification for non-Unix environments or
specialized applications. As they stand, they assume output to
an ordinary stdio stream.

This code is loosely based on ppmtogif from the PBMPLUS distribution
of Feb. 1991. That file contains the following copyright notice:
Based on GIFENCODE by David Rowley <mgardi@watdscu.waterloo.edu>.
Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
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"The Graphics Interchange Format(c) is the Copyright property of
CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated.
*/

Found in path(s):
 */opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

/ *
* jmainct.c
*
* This file was part of the Independent JPEG Group's software:
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* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains the main buffer controller for decompression.
* The main buffer lies between the JPEG decompressor proper and the
* post-processor; it holds downsampled data in the JPEG colorspace.
* Note that this code is bypassed in raw-data mode, since the application
* supplies the equivalent of the main buffer in that case.
*/

Found in path(s):
 */opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jmainct.c
No license file was found, but licenses were detected in source scan.

/ *
* jsimd_i386.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
*/

Found in path(s):
 */opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmGr/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdcolor.c

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/*
 * djpeg.c
 *
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG decompressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 *djpeg [options]  inputfile outputfile
 *djpeg [options]  [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 *djpeg [options]  -outfile outputfile  inputfile
 * works regardless of which command line style is used.
 */
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

No license file was found, but licenses were detected in source scan.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
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ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jmemnobs.c
No license file was found, but licenses were detected in source scan.

/*
* rdgif.c
*
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* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in GIF format.
*
***************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression, *
* the ability to read GIF files has been removed from the IJG distribution. *
* Sorry about that.                                                      *
***************************************************************************
*
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
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ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rdgif.c
No license file was found, but licenses were detected in source scan.

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# - Neither the name of the libjpeg-turbo Project nor the names of its
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#   software without specific prior written permission.
#
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POSSIBILITY OF SUCH DAMAGE.

#!/bin/sh

if [ ! "$id -u" = "0" ]; then
  echo "ERROR: This script must be executed as root"
  exit -1
fi

PACKAGE=@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
  LSBOM='lsbom -s -f -l '$RECEIPT'/Contents/Archive.bom'
else
  LSBOM='pkgutil --files '$MACPACKAGE
fi

mylsbom()
{
  "$LSBOM" || (echo "ERROR: Could not list package contents"; exit -1)
}

echo Removing package files ...
EXITSTATUS=0
pushd /
mylsbom | while read file; do
  if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd

echo Removing package directories ...
if [ -d /opt/$PACKAGE/bin ]; then
  rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/lib ]; then

rm /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [-d /opt/$PACKAGE/include ]; then
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [-d /opt/$PACKAGE/man/man1 ]; then
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [-d /opt/$PACKAGE/man ]; then
rm /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
if [-d /opt/$PACKAGE/classes ]; then
rm /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rm /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1
if [-d $RECEIPT ]; then
echo Removing package receipt ...
rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
echo Forgetting package $MACPACKAGE ...
pkgutil --forget $MACPACKAGE
fi
exit $EXITSTATUS

Found in path(s):
*/opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/release/uninstall.in
No license file was found, but licenses were detected in source scan.

/*
 * jccolext.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
*/opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  53148

/*
 * jsimddct.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimddext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jsimddct.h
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
 *
 * If no color quantization/reduction is required, then this module has no
 * work to do, and it just hands off to the upsample/color conversion code.
 * An integrated upsample/convert/quantize process would replace this module
 * entirely.
 *
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdpostct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapistd.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.

This file contains application interface code for the compression half of the JPEG library. These are the "standard" API routines that are used in the normal full-compression case. They are not used by a transcoding-only application. Note that if an application links in jpeg_start_compress, it will end up linking in the entire compressor. We thus must separate this file from jcamin.c to avoid linking the whole compression library into a transcoder.

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Modifications:
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For conditions of distribution and use, see the accompanying README file.

This file contains routines to process some of cjpeg's more complicated command-line switches. Switches processed here are:
-qtables file Read quantization tables from text file
-scans file Read scan script from text file
-quality\ N,\ N,...\ ] Set quality ratings
-qslots\ N,\ N,...\ Set component quantization table selectors
-sample\ HxV,\ HxV,...\ Set component sampling factors

This file was part of the Independent JPEG Group's software:
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Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

This file contains downsampling routines.
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.

* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.

* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.

* An excellent reference for image resampling is

* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.

* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

From c51b66ebcace2adec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP
... in which one or more of the color indices is out of range for the
number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's
JERR_PPM_OUTOF RANGE enum value in lieu of our project-specific
JERR_PPM_TOOLARGE enum value.

Fixes #258
---
cerror.h | 5 +++--
rdbmp.c   | 7 ++++++-
rdppm.c   | 4 ++--
3 files changed, 11 insertions(+), 5 deletions(-)

cdiff --git a/cderror.h b/cderror.h
index d69b501..46b0f49 100644
--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
* cderror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* @@ -48,6 +48,7 @@
JMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
JMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+JMESSAGE(JERR_BMP_OUTOF RANGE, "Numeric value out of range in BMP file")
JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapped BMP image")
JMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@
JMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
#define PPM_SUPPORTED
JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
JMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
-JMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
JMESSAGE(JERR_PPM_NOT, "Not a PPM/PGM file")
+JMESSAGE(JERR_PPM_OUTOF RANGE, "Numeric value out of range in PPM file")
JMESSAGE(JTRC_PGM, "%ux%u PGM image")
JMESSAGE(JTRC_PGM_TEXT, "%ux%u text PGM image")
JMESSAGE(JTRC_PPM, "%ux%u PPM image")
diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Modified 2011 by Siarhei Siamashka.
 * For conditions of distribution and use, see the accompanying README file.
@@ -64,6 +64,7 @@
 typedef struct _bmp_source_struct {
 JDIMENSION row_width; /* Physical width of scanlines in file */
 int bits_per_pixel; /* remembers 8- or 24-bit format */
+ int cmap_length;    /* colormap length */
 } bmp_source_struct;

@@ -124,6 +125,7 @@
 {
 bmp_source_ptr source = (bmp_source_ptr) sinfo;
 register JSAMPARRAY colormap = source->colormap;
+ int cmaplen = source->cmap_length;
 JSAMPARRAY image_ptr;
 register int t;
 register JSAMPROW inptr, outptr;
@@ -140,6 +142,8 @@
 for (col = cinfo->image_width; col > 0; col--) {
 t = GETJSAMPLE(*inptr);
+    if (t >= cmaplen)
+        ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
*outptr++ = colormap[0][t]; /* can omit GETJSAMPLE() safely */
*outptr++ = colormap[1][t];
*outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@
 source->colormap = (*cinfo->mem->alloc_sarray)
 ((j_common_ptr) cinfo, JPOOL_IMAGE,
  (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+ source->cmap_length = (int)biClrUsed;
 /* and read it from the file */
 read_colormap(source, (int) biClrUsed, mapentrysize);
 /* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@
 typedef {

typedef ppm_source_struct * ppm_source_ptr;

@ @ -126.7 +126.7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)

if (val > maxval)
- ERREXIT (cinfo, JERR_PPM_TOOLARGE);
+ ERREXIT (cinfo, JERR_PPM_OUTOF RANGE);

    return val;
}
--
2.17.2

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo12-CVE-2018-14498.patch
No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo12-CVE-2018-14498.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdhuff.c
No license file was found, but licenses were detected in source scan.
/*
 * jchuff.c
 *
 * This file was part of the Independent JPEG Group's software:
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 * Modifications:
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 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
 * permanent JPEG objects only upon successful completion of an MCU.
 */

*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jchuff.c

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

/*
 * rdcollmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 *
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
 * Note that reading a large PPM file will be horrendously slow.
 * Typically, a PPM-format map file should contain just one pixel
 * of each desired color. Such a file can be extracted from an
 * ordinary image PPM file with ppmtomap(1).
 *
 * Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
 * currently implemented.
 */

/* Portions of this code are based on the PBMPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 */
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documentation for any purpose and without fee is hereby granted, provided
that the above copyright notice appear in all copies and that both that
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documentation. This software is provided "as is" without express or
implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jcoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcoefct.c
No license file was found, but licenses were detected in source scan.

License: IJG

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.spec
No license file was found, but licenses were detected in source scan.

/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.

This may be useful as an example of the minimum logic needed to parse JPEG markers.

/*

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* Modifications:
* Copyright (C) 2010, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for the JPEG compressor.
* It should work on any system with Unix- or MS-DOS-style command lines.
* Two different command line styles are permitted, depending on the compile-time switch TWO_FILE_COMMANDLINE:
  *cjpeg [options] inputfile outputfile
  *cjpeg [options] [inputfile]
* In the second style, output is always to standard output, which you'd normally redirect to a file or pipe to some other program. Input is either from a named file or from standard input (typically redirected).
* The second style is convenient on Unix but is unhelpful on systems that don't support pipes. Also, you MUST use the first style if your system doesn't do binary I/O to stdin/stdout.
* To simplify script writing, the "-outfile" switch is provided. The syntax
  *cjpeg [options] -outfile outputfile inputfile
* works regardless of which command line style is used.
*/

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

/*
cjpeg.c
*/

{\rtf1\ansi\ansicpg1252\cocoartf1038\cocoasubrtf350
{\fonttbl\f0\fswiss\fcharset0 Helvetica;}
{\colortbl;\red255\green255\blue255;}
{\\listtable\{\list\listtemplateid1\\listhybrid\{\\listlevel\\levelnfc23\\levelnfcn23\\leveljc0\\leveljcn0\\levelfollow0\\levelsta\rtat1\\levelspace360\\levelindent0\{\levelmarker \{disc\}\}\{\leveltext\leveltemplateid1\}\{\uc0\u8226\}\{\levelnumbers;\}{\fi-360\li720\lin720 }\listid1\}}
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Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/release/License.rtf

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

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* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

This file contains compression data destination routines for the case of emitting JPEG data to memory or to a file (or any stdio stream).
While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

/*
* jidctint.c
*
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modification developed 2002-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a slow-but-accurate integer implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
*
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
*
* This implementation is based on an algorithm described in
* C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
* Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
* The primary algorithm described there uses 11 multiplies and 29 adds.
* We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one
* multiplication; this allows a very simple and accurate implementation in
* scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for
* direct resolution reduction or enlargement without additional resampling:
* NxN (N=1...16) pixels for one 8x8 input DCT block.
*
* For N<8 we simply take the corresponding low-frequency coefficients of
* the 8x8 input DCT block and apply an NxN point IDCT on the sub-block
* to yield the downscaled outputs.
* This can be seen as direct low-pass downsampling from the DCT domain
* point of view rather than the usual spatial domain point of view,
* yielding significant computational savings and results at least
* as good as common bilinear (averaging) spatial downsampling.
* For N>8 we apply a partial NxN IDCT on the 8 input coefficients as
  lower frequencies and higher frequencies assumed to be zero.
* It turns out that the computational effort is similar to the 8x8 IDCT
  regarding the output size.
* Furthermore, the scaling and descaling is the same for all IDCT sizes.
* CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases
  since there would be too many additional constants to pre-calculate.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jidctint.c
No license file was found, but licenses were detected in source scan.

/*
* jdarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains portable arithmetic entropy decoding routines for JPEG
* Both sequential and progressive modes are supported in this single module.
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/*
* jcparam.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains optional default-setting code for the JPEG compressor.
Applications do not have to use this file, but those that don't use it
must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
*/opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcparam.c
No license file was found, but licenses were detected in source scan.

/*
* jcinit.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains initialization logic for the JPEG compressor.
* This routine is in charge of selecting the modules to be executed and
* making an initialization call to each one.
*
* Logically, this code belongs in jcmaster.c. It's split out because
* linking this routine implies linking the entire compression library.
* For a transcoding-only application, we want to be able to use jcmaster.c
* without linking in the whole library.
*/

Found in path(s):
*/opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcinit.c
No license file was found, but licenses were detected in source scan.

/*
* jcdctmgr.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright (C) 2011 D. R. Commander
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains the forward-DCT management logic.
* This code selects a particular DCT implementation to be used,
* and it performs related housekeeping chores including coefficient
* quantization.
*/
/*
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2009-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jccolor.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains inverse-DCT routines that produce reduced-size output:
 * either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
 *
 * The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M)
 * algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
 * with an 8-to-4 step that produces the four averages of two adjacent outputs
 * (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
 * These steps were derived by computing the corresponding values at the end
 * of the normal LL&M code, then simplifying as much as possible.
 *
 * 1x1 is trivial: just take the DC coefficient divided by 8.
 *
 * See jidctint.c for additional comments.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jidctred.c

---

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 53161
No license file was found, but licenses were detected in source scan.

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
 * The advantage of this method is that no data path contains more than one
 * multiplication; this allows a very simple and accurate implementation in
 * scaled fixed-point arithmetic, with a minimal number of shifts.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jfdctint.c

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

/*
 * jerror.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the error and message codes for the JPEG library.
 * Edit this file to add new codes, or to translate the message strings to
 * some other language.
 * A set of error-reporting macros are defined too. Some applications using
 * the JPEG library may wish to include this file to get the error codes
 * and/or the macros.
 */
of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

#-->%prep
#-->%setup -q

#-->%build
#-->./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
JPEG_LIB_VERSION=@JPEG_LIB_VERSION@ SO_MAJOR_VERSION=@SO_MAJOR_VERSION@
SO_MINOR_VERSION=@SO_MINOR_VERSION@ --with-pic @RPM_CONFIG_ARGS@
#-->make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc exampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/usr/%{__lib}
/sbin/ldconfig -n $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
ln -fs /usr/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include
ln -fs /usr/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/
mkdir -p $RPM_BUILD_ROOT/%{_defaultdocdir}
mv $RPM_BUILD_ROOT/opt/%{name}/doc $RPM_BUILD_ROOT/%{_defaultdocdir}/%{name}-%{version}

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig
%clean
rm -rf $RPM_BUILD_ROOT
%files
%defattr(-,root,root)
%dir %{_defaultdocdir}/%{name}-%{version}
%dir /opt/%{name}-%{version}/
%dir /opt/%{name}/bin/cjpeg
%dir /opt/%{name}/bin/djpeg
%dir /opt/%{name}/bin/jpegtran
%dir /opt/%{name}/bin/tjbench
%dir /opt/%{name}/bin/rdjpgcom
%dir /opt/%{name}/bin/wrjpgcom
%dir /opt/%{name}/%{__lib}
%ifarch x86_64
%else
/opt/%{name}/lib32
%endif
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@.@SO_AGE@.@SO_MINOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.a
/usr/%{__lib}/libturbojpeg.a
/usr/%{__lib}/libturbojpeg.so.0.0.0
/usr/%{__lib}/libturbojpeg.so
/usr/%{__lib}/libturbojpeg.a
/usr/include/turbojpeg.h
%dir /opt/%{name}/include
/opt/%{name}/include/jconfig.h
/opt/%{name}/include/jerror.h
/opt/%{name}/include/jmorecfg.h
/opt/%{name}/include/jpeglib.h
/opt/%{name}/include/turbojpeg.h
%dir /opt/%{name}/man
%dir /opt/%{name}/man/man1
/opt/%{name}/man/man1/cjpeg.1*
/opt/%{name}/man/man1/djpeg.1*
/opt/%{name}/man/man1/jpegtran.1*
/opt/%{name}/man/man1/rdjpgcom.1*
/opt/%{name}/man/man1/wrjpgcom.1*
@JAVA_RPM_CONTENTS_1@
@JAVA_RPM_CONTENTS_2@

%changelog

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in
No license file was found, but licenses were detected in source scan.

/
* jpegint.h
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides common declarations for the various JPEG modules.
* These declarations are considered internal to the JPEG library; most
* applications using the library shouldn't need to include this file.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jpegint.h
No license file was found, but licenses were detected in source scan.

/*! *
 * jdapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-decompression case or the
 * transcoding-only case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jdapistd.c. But also see jcomapi.c for routines
 * shared by compression and decompression, and jdtrans.c for the transcoding
 * case.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdapimin.c
No license file was found, but licenses were detected in source scan.

/*! *
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with fixed-point math,
* accuracy is lost due to imprecise representation of the scaled
* quantization values. The smaller the quantization table entry, the less
* precise the scaled value, so this implementation does worse with high-
* quality-setting files than with low-quality ones.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jfdctfst.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This image was extracted from the 8-bit nightshot_iso_100
image. The original can be downloaded at the link below.

The New Image Compression Test Set - Jan 2008
http://www.imagecompression.info/test_images

The images historically used for compression research (lena, barbra, pepper etc...) have outlived their useful life and
its about time they become a part of history only. They are too small, come from data sources too old and are
available in only 8-bit precision.

These images have been carefully selected to aid in image compression algorithm research and evaluation. These are
photographic images chosen to come from a wide variety of sources and each one picked to stress different aspects
of algorithms. Images are available in 8-bit, 16-bit and 16-bit linear variations, RGB and gray.

Images are available without any prohibitive copyright restrictions.

These images are (c) there respective owners. You are granted full redistribution and publication rights on these
images provided:

1. The origin of the pictures must not be misrepresented; you must not claim that you took the original pictures. If
you use, publish or redistribute them, an acknowledgment would be appreciated but is not required.
2. Altered versions must be plainly marked as such, and must not be misinterpreted as being the originals.
3. No payment is required for distribution this material, it must be available freely under the conditions stated here.
   That is, it is prohibited to sell the material.
4. This notice may not be removed or altered from any distribution.

Acknowledgments: A lot of people contributed a lot of time and effort in making this test set possible. Thanks to
everyone who voiced their opinion in any of the discussions online. Thanks to Axel Becker, Thomas Richter and Niels Frhling for their extensive help in picking images, running all the various tests etc... Thanks to Pete Fraser, Tony Story, Wayne J. Cosshall, David Coffin, Bruce Lindbloom and raw.fotosite.pl for the images which make up this set.

Sachin Garg [India]
sachingarg@c10n.info


Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt
No license file was found, but licenses were detected in source scan.

/*
 * jdphuff.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy decoding routines for progressive JPEG.
 *
 * Much of the complexity here has to do with supporting input suspension.
 * If the data source module demands suspension, we want to be able to back
 * up to the start of the current MCU. To do this, we copy state variables
 * into local working storage, and update them back to the permanent
 * storage only upon successful completion of an MCU.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

/*
 * rdrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Utah RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rdrle.c
No license file was found, but licenses were detected in source scan.

; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples
%
%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)
%
%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; ---------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jdct.inc
No license file was found, but licenses were detected in source scan.

/*
 * jsimd_none.c
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2009-2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 * This file contains stubs for when there is no SIMD support available.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jsimd_none.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; more details.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jiss2int.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jimmxint.asm
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jimmxint-64.asm
No license file was found, but licenses were detected in source scan.

/*
 * jdc coef c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
* In buffered-image mode, this controller is the interface between
  * input-oriented processing and output-oriented processing.
  * Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdcoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the compression half
 * of the JPEG library. These are the "minimum" API routines that may be
 * needed in either the normal full-compression case or the transcoding-only
 * case.
 *
 * Most of the routines intended to be called directly by an application
 * are in this file or in jcapistd.c. But also see jparam.c for
 * parameter-setup helper routines, jecomapi.c for routines shared by
 * compression and decompression, and jctrans.c for the transcoding case.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcapimin.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

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It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard. The README file includes references for learning about JPEG. The file libjpeg.txt describes the library from the viewpoint of an application programmer using the library; it's best to read that file before this one. Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size determined by the sampling factors, or a single block in a noninterleaved scan.

We do not use the terms "pixel" and "sample" interchangeably. When we say pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats.

cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may
never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

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

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However,
the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.

JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.

Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries) as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C.
The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirecting through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's internal functions can access these private fields. (For a simple example, see jdatadst.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall
control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:

   1A. Startup initialization at the beginning of image processing. The individual processing modules to be used in this run are selected and given initialization calls.

   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
       |            |            |
       ------------------ controller ------------------
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)

* In some processing modes, a given interstep buffer need only be a "strip"
buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:

```
|-- Colorspace conversion
    |-- Preprocessing controller --|
        |-- Downsampling
Main controller --|
        |-- Forward DCT, quantize
        |-- Coefficient controller --|
        `/-- Entropy encoding
```

This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required.
Optionally may perform pixel-level smoothing as well. Processes a "row
group" at a time, where a row group is defined as Vmax pixel rows of each
component before downsampling, and Vk sample rows afterwards (remember Vk
differs across components). Some downsampling or smoothing algorithms may
require context rows above and below the current row group; the
preprocessing controller is responsible for supplying these rows via proper
buffering. The downsampler is responsible for edge expansion at the right
eedge (i.e., extending each sample row to a multiple of 8 samples); but the
preprocessing controller is responsible for vertical edge expansion (i.e.,
duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data.
This controller handles MCU assembly, including insertion of dummy DCT
blocks when needed at the right or bottom edge. When performing
Huffman-code optimization or emitting a multiscan JPEG file, this
controller is responsible for buffering the full image. The equivalent of
one fully interleaved MCU row of subsampled data is processed per call,
even when the JPEG file is noninterleaved.

* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients.
Works on one or more DCT blocks at a time. (Note: the coefficients are now
emitted in normal array order, which the entropy encoder is expected to
convert to zigzag order as necessary. Prior versions of the IJG code did
the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the
coded data to the data destination module. Works on one MCU per call.
For progressive JPEG, the same DCT blocks are fed to the entropy coder
during each pass, and the coder must emit the appropriate subset of
coefficients.

In addition to the above objects, the compression library includes these
objects:

* Master control: determines the number of passes required, controls overall
and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted
by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final
destination (e.g., a file). The destination manager supplied with the
library knows how to write to a stdio stream or to a memory buffer;
for other behaviors, the surrounding application may provide its own
destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays
(with backing store management, where required).
* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|--- Entropy decoding
 |  |--- Coefficient controller --|
 |  |  |--- Dequantize, Inverse DCT
 Main controller --|
 |  |--- Upsampling
 |--- Postprocessing controller --|-- Colorspace conversion
 |  |  |--- Color quantization
 |  |  |--- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG
file, this controller is responsible for buffering the full image.
(Buffering DCT coefficients, rather than samples, is necessary to support
progressive JPEG.) The equivalent of one fully interleaved MCU row of
subsampled data is processed per call, even when the source JPEG file is
noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform
Huffman or arithmetic entropy decoding. Works on one MCU per call.
For progressive JPEG decoding, the coefficient controller supplies the prior
coefficients of each MCU (initially all zeroes), which the entropy decoder
modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients
buffered by the coefficient controller have NOT been dequantized; we
merge dequantization and inverse DCT into a single step for speed reasons.
When scaled-down output is asked for, simplified DCT algorithms may be used
that emit fewer samples per DCT block, not the full 8x8. Works on one DCT
block at a time.

* Postprocessing controller: buffer controller for the color quantization
input buffer, when quantization is in use. (Without quantization, this
controller just calls the upsampler.) For two-pass quantization, this
controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more
general output rescaling, too. Note that if undersized DCT outputs have
been emitted by the DCT module, this module must adjust so that properly
sized outputs are created.) Works on one row group at a time. This module
also calls the color conversion module, so its top level is effectively a
buffer controller for the upsampling->color conversion buffer. However, in
all but the highest-quality operating modes, upsampling and color
conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space,
and change data layout from separate component planes to pixel-interleaved.
Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an
externally specified colormap or an internally generated one. This module
is not used for full-color output. Works on one pixel row at a time; may
require two passes to generate a color map. Note that the output will
always be a single component representing colormap indexes. In the current
design, the output values are JSAMPLEs, so an 8-bit compilation cannot
quantize to more than 256 colors. This is unlikely to be a problem in
practice.

* Color reduction: this module handles color precision reduction, e.g.,
generating 15-bit color (5 bits/primary) from JPEG's 24-bit output.
Not quite clear yet how this should be handled... should we merge it with
colorspace conversion???

Note that some high-speed operating modes might condense the entire
postprocessing sequence to a single module (upsample, color convert, and
quantize in one step).

In addition to the above objects, the decompression library includes these
objects:

* Master control: determines the number of passes required, controls overall
and per-pass initialization of the other modules. This is subdivided into
input and output control: jdinput.c controls only input-side processing,
while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source
manager supplied with the library knows how to read from a stdio stream
or from a memory buffer; for other behaviors, the surrounding application
may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress
monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the
decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the
coefficient controller's DCT coefficient buffer. Note that this
processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT
and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get
arbitrarily far ahead of the data output processing. (This occurs only
if the application calls jpeg_consume_input(); otherwise input and output
run in lockstep, since the input section is called only when the output
section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

typedef something JSAMPLE; a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; ptr to a list of color-component arrays

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((int) (value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.
With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:

* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

\[
\text{GETJSAMPLE(image[colorcomponent][row][col])}
\]

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)
Arrays of DCT-coefficient values use the following data structure:

typedef short JCOEF; a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2]; an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW; ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY; ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE; ptr to a list of color component arrays

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.
This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a suspension due to buffer overflow/underrun. At the start of each call, the codec's internal state is loaded from permanent storage (in the JPEG object structures) into local variables. On successful completion of the MCU, the permanent state is updated. (This copying is not very expensive, and may even lead to *improved* performance if the local variables can be registerized.) If a suspension occurs, the codec simply returns without updating the state, thus effectively reverting to the start of the MCU. Note that this implies leaving some data unprocessed in the source/destination buffer (ie, the compressed partial MCU). The data source/destination module interfaces are specified so as to make this possible. This also implies that the data buffer must be large enough to hold a worst-case compressed MCU; a couple thousand bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman decoder has to be able to undo assignments of newly nonzero coefficients if it suspends before the MCU is complete, since decoding requires distinguishing previously-zero and previously-nonzero coefficients. This is a bit tedious but probably won't have much effect on performance. Other variants of Huffman decoding need not worry about this, since they will just store the same values again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its modifiable state is quite large and couldn't be copied cheaply. Instead it would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary point. It does so by backing up to the start of the marker parameter segment, so the data buffer must be big enough to hold the largest marker of interest. Again, a couple KB should be adequate. (A special "skip" convention is used to bypass COM and APPn markers, so these can be larger than the buffer size.
without causing problems; otherwise a 64K buffer would be needed in the worst case.)

The JPEG marker writer currently does *not* cope with suspension. We feel that this is not necessary; it is much easier simply to require the application to ensure there is enough buffer space before starting. (An empty 2K buffer is more than sufficient for the header markers; and ensuring there are a dozen or two bytes available before calling jpeg_finish_compress() will suffice for the trailer.) This would not work for writing multi-scan JPEG files, but we simply do not intend to support that capability with suspension.

*** Memory manager services ***

The JPEG library’s memory manager controls allocation and deallocation of memory, and it manages large “virtual” data arrays on machines where the operating system does not provide virtual memory. Note that the same memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in “pools” of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:
1. “Small” objects. Typically these require no more than 10K-20K total.
2. “Large” objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.

3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects will be given permanent lifespan, though this restriction is not required by the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by making the in-memory buffers for virtual arrays be as large as possible. (For small images, the buffers might fit entirely in memory, so blind swapping would be very wasteful.) The memory manager will adjust the height of the buffers to fit within a prespecified maximum memory usage. In order to do this in a reasonably optimal fashion, the manager needs to allocate all of the virtual arrays at once. Therefore, there isn't a one-step allocation routine for virtual arrays; instead, there is a "request" routine that simply allocates the control block, and a "realize" routine (called just once) that determines space allocation and creates all of the actual buffers. The realize routine must allow for space occupied by non-virtual large objects. (We don't bother to factor in the space needed for small objects, on the grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business with the memory manager:

1. Modules must request virtual arrays (which may have only image lifespan) during the initial setup phase, i.e., in their jinit_XXX routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available for it to choose a good size for virtual array buffers. Small objects of any lifespan may be allocated at any time. We expect that the total space used for small objects will be small enough to be negligible in the realize_virt_arrays computation.
In a virtual-memory machine, we simply pretend that the available space is infinite, thus causing realize_virt_arrays to decide that it can allocate all the virtual arrays as full-size in-memory buffers. The overhead of the virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set, never-yet-written sections of the array are set to zero before being made available to the caller. If this flag is not set, never-written sections of the array contain garbage. (This feature exists primarily because the equivalent logic would otherwise be needed in jdcoefct.c for progressive JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom order; read passes, as well as any write passes after the first one, may access the array in any order. This restriction exists partly to simplify the virtual array control logic, and partly because some file systems may not support seeking beyond the current end-of-file in a temporary file. The main implication of this restriction is that rearrangement of rows (such as converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent "front end" (jmemmgr.c) and a "back end" that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

- jpeg_mem_init, jpeg_mem_term: system-dependent initialization/shutdown
- jpeg_get_small, jpeg_free_small: interface to malloc and free library routines (or their equivalents)
- jpeg_get_large, jpeg_free_large: interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small
- jpeg_mem_available: estimate available memory
- jpeg_open_backing_store: create a backing-store object
- read_backing_store, manipulate a backing-store object
- write_backing_store,
- close_backing_store
On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won't free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don't want to have the back end module install its own signal handler, because that would pre-empt the surrounding application's ability to control signal handling.

The IJG distribution includes several memory manager back end implementations. Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.

This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height,
with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs a lot smaller temp file than is implied by the maximum-height method. For this approach we'd simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

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

/*
 * jdinput.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input control logic for the JPEG decompressor.
 * These routines are concerned with controlling the decompressor’s input
 * processing (marker reading and coefficient decoding). The actual input
 * reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
 */

No license file was found, but licenses were detected in source scan.
/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmarker.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcmarker.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegtran.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write JPEG datastream markers.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jjpegtran.c
No license file was found, but licenses were detected in source scan.

/*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1995-2010, Thomas G. Lane, Guido Vollbeding.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jpegtran.c
No license file was found, but licenses were detected in source scan.

/ *
* transupp.h
*
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/transupp.h
No license file was found, but licenses were detected in source scan.

/ *
* rdtarga.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Targa format.
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed Targa format).
*
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/114833252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
* jfdctflt.c
*
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains a floating-point implementation of the
* forward DCT (Discrete Cosine Transform).
*
* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.
*
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
*
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.
* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jfdctflt.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcmaster.c
No license file was found, but licenses were detected in source scan.

/*
 * simd/jsimd.h
 *
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright 2011 D. R. Commander
 *
 * Based on the x86 SIMD extension for IJG JPEG library,
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * For conditions of distribution and use, see copyright notice in jsimdext.inc
 *
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.
/*
* jctrans.c
*
* Copyright (C) 1995-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains library routines for transcoding compression,
* that is, writing raw DCT coefficient arrays to an output JPEG file.
* The routines in jcapimin.c will also be needed by a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jctrans.c
No license file was found, but licenses were detected in source scan.

/*
* jmorecfg.h
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains additional configuration options that customize the
* JPEG software for special applications or support machine-dependent
* optimizations. Most users will not need to touch this file.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/*
* jsimd_x86_64.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
* This file contains the interface between the "normal" portions

---

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 53196
* of the library and the SIMD implementations when running on a
* x86_64 architecture.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jsimd_x86_64.c
No license file was found, but licenses were detected in source scan.

/*
* jdatasrc-tj.c
* *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

/*
* jcmainct.c
* *
* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains the main buffer controller for compression.
* The main buffer lies between the pre-processor and the JPEG
* compressor proper; it holds downsampled data in the JPEG colorspace.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdatadst.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2009-2012 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains compression data destination routines for the case of
 * emitting JPEG data to memory or to a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different destination manager.
 * IMPORTANT: we assume that fwrite() will correctly transcribe an array of
 * JOCTETs into 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdatadst.c

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

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jutils.c

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

/*
 * jdhuff.h
 *
 * This file was part of the Independent JPEG Group's software:
IJK JPEG LIBRARY: CODING RULES

Copyright (C) 1991-1996, Thomas G. Lane.
This file is part of the Independent JPEG Group's software.
For conditions of distribution and use, see the accompanying README file.

Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJK FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
  then-part;
} else {
  else-part;
}

with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., multi_word_name (not multiWordName). Preprocessor symbols and enum constants
are similar but upper case (MULTI WORD NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

LOCAL(int *)
function_name (int a, char *b)
{
    code...
}

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif

which is used like this:
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say,
this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.

The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORT_EXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjjpeg.c and djjpeg.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpeg/djpeg but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/coderules.txt
No license file was found, but licenses were detected in source scan.

; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; -----------------------------
;
; pseudo-registers to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5

------------------------------------------
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif

%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif
%define xmmH xmm7
%endif

; -----------------------------------------------

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jcolsamp.inc
No license file was found, but licenses were detected in source scan.

/*
 * wrrle.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in RLE format.
 * The Utah Raster Toolkit library is required (version 3.1 or later).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * Based on code contributed by Mike Lijewski,
 * with updates from Robert Hutchinson.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/wrrle.c
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
-------------------

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4,
11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will
not be SIMD-accelerated when using any of these new scaling factors.

[2] The TurboJPEG dynamic library is now versioned. It was not strictly
necessary to do so, because TurboJPEG uses versioned symbols, and if a function
changes in an ABI-incompatible way, that function is renamed and a legacy
function is provided to maintain backward compatibility. However, certain
Linux distro maintainers will blindly reject any library that is not versioned,
so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG
image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.
1.2.1

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVQDQ instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.

[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form ""%define' expects a macro identifier". 

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.
1.2.0

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdconfig.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more details.

[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.
[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.
[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
=====

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8 emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  53210
1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tj DecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
==================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.


[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jpgtest can now be used to test decompression performance with existing JPEG images.
[5] If the default install prefix (/opt/libjpeg-turbo) is used, then
'make install' now creates /opt/libjpeg-turbo/lib32 and
/opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary
packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even
when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with
configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor
and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API,
which allows the caller to determine the type of subsampling used in a JPEG
image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance,
from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to
cause libjpeg-turbo to

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to

[3] configure script will now automatically determine whether the

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify
--host when configuring on a 64-bit system)

[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG
include file can always be found in /opt/libjpeg-turbo/include, the 32-bit
static libraries can always be found in /opt/libjpeg-turbo/lib32, and the
64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time
programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
=======

[1] 2982659. Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
=======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
=======

Initial release

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

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* Neither the name of the libjpeg-turbo Project nor the names of its
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*
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* ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/tjutil.c
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/tjutil.h
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/bmp.h
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcsetest.c
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/bmp.c
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java

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

*/
* jdmerge.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains code for merged upsampling/color conversion.
* This file combines functions from jdsample.c and jdcolor.c;
* read those files first to understand what's going on.
* When the chroma components are to be upsampled by simple replication
* (ie, box filtering), we can save some work in color conversion by
* calculating all the output pixels corresponding to a pair of chroma
* samples at one time. In the conversion equations
* \[ R = Y + K1 \times Cr \]
* \[ G = Y + K2 \times Cb + K3 \times Cr \]
* \[ B = Y + K4 \times Cb \]
* only the Y term varies among the group of pixels corresponding to a pair
* of chroma samples, so the rest of the terms can be calculated just once.
* At typical sampling ratios, this eliminates half or three-quarters of the
* multiplications needed for color conversion.

* This file currently provides implementations for the following cases:
* YCbCr => RGB color conversion only.
* Sampling ratios of 2h1v or 2h2v.
* No scaling needed at upsample time.
* Corner-aligned (non-CCIR601) sampling alignment.
* Other special cases could be added, but in most applications these are
* the only common cases. (For uncommon cases we fall back on the more
* general code in jdsample.c and jdcolor.c.)

*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdmerge.c

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

/*
* jaricom.c
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
*/
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdtrans.c
No license file was found, but licenses were detected in source scan.

/*
 * jdapistd.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface code for the decompression half
 * of the JPEG library. These are the "standard" API routines that are
 * used in the normal full-decompression case. They are not used by a
 * transcoding-only application. Note that if an application links in
 * jpeg_start_decompress, it will end up linking in the entire decompressor.
 * We thus must separate this file from jdapimin.c to avoid linking the
 * whole decompression library into a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
 * jdsample.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups".  A row group
 * is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
 * sample rows of each component.  Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-OR1P9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdsample.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project
to include only information relevant to libjpeg-turbo, to wordsmith certain
sections, and to remove impolitic language that existed in the libjpeg v8
README. It is included only for reference. Please see README-turbo.txt for
information specific to libjpeg-turbo.

The Independent JPEG Group's JPEG software
==============================================

This distribution contains a release of the Independent JPEG Group's free JPEG
software. You are welcome to redistribute this software and to use it for any
purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone,
Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson,
Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers,
and other members of the Independent JPEG Group.
IJK is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=======================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJK software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJK releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJK software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced “jay-peg”) is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and
brightness transitions between neighboring pixels. Images with sharp lines or
other abrupt features may not compress well with JPEG, and a higher JPEG
quality may have to be used to avoid visible compression artifacts with such
images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to
the input pixels. However, on photographic content and other "smooth" images,
very good compression ratios can be obtained with no visible compression
artifacts, and extremely high compression ratios are possible if you are
willing to sacrifice image quality (by reducing the "quality" setting in the
compressor.)

This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless
processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpe" and "djpe", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between
different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple
applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have
achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products.
No royalty is required, but we do ask for an acknowledgement in product
documentation, as described under LEGAL ISSUES.

LEGAL ISSUES

============
In plain English:

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2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:

(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.

(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.

These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.
The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
============

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard". Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.iijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm.

A PostScript version of the JFIF document is available at http://www.iijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.iijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.iijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

The "official" archive site for this software is www.iijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.iijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.iijg.org/files/jpegsrc8d.zip.

FILE FORMAT WARS
================

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files.

Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

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

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

/ *
* jdct.h
*

* Copyright (C) 1994-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This include file contains common declarations for the forward and
* inverse DCT modules. These declarations are private to the DCT managers
* (jcdctmgr.c, jddctmgr.c) and the individual DCT algorithms.
* The individual DCT algorithms are kept in separate files to ease
* machine-dependent tuning (e.g., assembly coding).
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdct.h
/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jidctfst.c

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

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
* Copyright (C) 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains decompression data source routines for the case of
* reading JPEG data from memory or from a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different source manager.
* IMPORTANT: we assume that fread() will correctly transcribe an array of
* JOCTETs from 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/ *
* jcarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains portable arithmetic entropy encoding routines for JPEG
* 
* Both sequential and progressive modes are supported in this single module.
*
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcarith.c
No license file was found, but licenses were detected in source scan.

/ *
* Copyright (C)2009-2012 D. R. Commander. All Rights Reserved.
* 
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* 
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* this list of conditions and the following disclaimer in the documentation
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*
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*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPI9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPI9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/tjbenc.h
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPI9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/tjnittest.c

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

/*
* cdjpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common support routines used by the IJG application
* programs (cj peg, dj peg, jpegtran).
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIPI9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/cdjpeg.c

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

/*
* jpeglib.h

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, 2013, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file defines the application interface for the JPEG library.
* Most applications using the library need only include this file,
* and perhaps jerror.h if they want to know the exact error codes.
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
  ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jpeglib.h
No license file was found, but licenses were detected in source scan.

; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
; This software is provided 'as-is', without any express or implied
; warranty. In no event will the authors be held liable for any damages
; arising from the use of this software.
;
; Permission is granted to anyone to use this software for any purpose,
; including commercial applications, and to alter it and redistribute it
; freely, subject to the following restrictions:
;
; 1. The origin of this software must not be misrepresented; you must not
; claim that you wrote the original software. If you use this software
; in a product, an acknowledgment in the product documentation would be
; appreciated but is not required.
; 2. Altered source versions must be plainly marked as such, and must not be
; misrepresented as being the original software.
; 3. This notice may not be removed or altered from any source distribution.
;
; [TAB8]

;==================================================================
; System-dependent configurations

 ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
 ; * Microsoft Visual C++
 ; * MinGW (Minimalist GNU for Windows)
 ; * CygWin
 ; * LCC-Win32

 ; -- segment definition --
 ;
 ifdef __YASM_VER__
 %define SEG_TEXT .text align=16
 %define SEG_CONST .rdata align=16
 else
 %define SEG_TEXT .text align=16 public use32 class=CODE
 %define SEG_CONST .rdata align=16 public use32 class=CONST
 endif

 endif

 ifdef WIN64; ----(nasm -fwin64 -DWIN64 ...)--------
 ; * Microsoft Visual C++

 ; -- segment definition --
 ;
 ifdef __YASM_VER__
 %define SEG_TEXT .text align=16
 %define SEG_CONST .rdata align=16
 else
 %define SEG_TEXT .text align=16 public use64 class=CODE
 %define SEG_CONST .rdata align=16 public use64 class=CONST
 endif
 %define EXTN(name) name; foo() -> foo

 ifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)--------
 ; * Borland C++ (Win32)

 ; -- segment definition --
 ;
 %define SEG_TEXT .text align=16 public use32 class=CODE
 %define SEG_CONST .data align=16 public use32 class=DATA

 ifdef ELF; ----(nasm -felf[64] -DELF ...)--------
 ; * Linux
 ; * *BSD family Unix using elf format
 ; * Unix System V, including Solaris x86, UnixWare and SCO Unix

 ; mark stack as non-executable
 section .note.GNU-stack noalloc noexec nowrite progbits
; -- segment definition --
;
%ifdef __x86_64__
%define SEG_TEXT .text  progbits align=16
%define SEG_CONST .rodata progbits align=16
%else
%define SEG_TEXT .text  progbits alloc exec  nowrite align=16
%define SEG_CONST .rodata progbits alloc noexec nowrite align=16
%endif

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL  _GLOBAL_OFFSET_TABLE_; ELF supports PIC
%define EXTN(name)  name ; foo() -> foo

%elifdef AOUT; ----(nasm -faout/aout -DAOUT ...)----
; * Older Linux using a.out format  (nasm -f aout -DAOUT ...)
; * *BSD family Unix using a.out format  (nasm -f aoutb -DAOUT ...)

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data

; To make the code position-independent, append -DPIC to the commandline
;
%define GOT_SYMBOL  _GLOBAL_OFFSET_TABLE_; BSD-style a.out supports PIC

%elifdef MACHO; ----(nasm -fmacho -DMACHO ...)--------
; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

; -- segment definition --
;
%define SEG_TEXT .text :align=16; nasm doesn't accept align=16. why?
%define SEG_CONST .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL  _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT .text
%define SEG_CONST .data
; ; Common types
;
%ifdef __x86_64__
%define POINTER    qword    ; general pointer type
%define SIZEOF_POINTER SIZEOF_QWORD ; sizeof(POINTER)
%define POINTER_BIT QWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER    dword    ; general pointer type
%define SIZEOF_POINTER SIZEOF_DWORD ; sizeof(POINTER)
%define POINTER_BIT DWORD_BIT ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT         dword    ; signed integer type
%define SIZEOF_INT  SIZEOF_DWORD ; sizeof(INT)
%define INT_BIT     DWORD_BIT ; sizeof(INT)*BYTE_BIT

%define FP32        dword    ; IEEE754 single
%define SIZEOF_FP32 SIZEOF_DWORD ; sizeof(FP32)
%define FP32_BIT    DWORD_BIT ; sizeof(FP32)*BYTE_BIT

%define MMWORD      qword    ; int64  (MMX register)
%define SIZEOF_MMMWORD SIZEOF_QWORD ; sizeof(MMWORD)
%define MMWORD_BIT  QWORD_BIT ; sizeof(MMWORD)*BYTE_BIT

; ; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD      ; int128 (SSE register)
%define SIZEOF_XMMWORD SIZEOF_QWORD ; sizeof(XMMWORD)
%define XMMWORD_BIT  QWORD_BIT ; sizeof(XMMWORD)*BYTE_BIT

; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMMWORD

%define SIZEOF_BYTE  1 ; sizeof(BYTE)
%define SIZEOF_WORD  2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT     8 ; CHAR_BIT in C
%define WORD_BIT     16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT    32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; --------------------------------------------------------------------------
;  External Symbol Name
;
%ifndef EXTN
%define EXTN(name) _ %+ name		; foo() -> _foo
%endif

; --------------------------------------------------------------------------
;  Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ; -------------------------------------------
%ifidn GOT_SYMBOL,_MACHO_PIC_ ; --------------------
; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTIONSEG_CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT	1
; NOTE: this macro destroys ecx resister.
call%%geteip
addecx, byte (%%ref - $)
jmpshort %%adjust
%%geteip:
mov ecx, POINTER [esp]
ret
%%%adjust:
pushebp
xorebp,ebp; ebp = 0
%ifidni %1,ebx; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,9C,E9,(offset32)
db0x8D,0x9C; 8D,9C
jmpnearn const_base; E9,(const_base-%%ref)
%%%ref:
%else ; (%1 != ebx)
; db 0x8D,0x8C + jmp near const_base =

lea ecx, [ecx+ebp*8+(const_base-%%ref)] ; 8D,8C,E9,(offset32)
db0x8D,0x8C; 8D,8C
jmpnear const_base; E9,(const_base-%%ref)
%%%ref:mov%1, ecx
%%%endif ; (%1 == ebx)
popebp
%%%endmacro

%%%else; GOT_SYMBOL != _MACHO_PIC_ ---------------

%%%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff

%%%imacro get_GOT
externGOT_SYMBOL.
call%%%geteip
add%1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %%%done
%%%geteip:
mov%1, POINTER [esp]
ret
%%%done:
%%%endmacro

%%%endif; GOT_SYMBOL == _MACHO_PIC_ ---------------

%%%imacro pushpic1.nolist
push%1
%%%endmacro
%%%imacro poppic1.nolist
pop%1
%%%endmacro
%%%imacro movpic2.nolist
mov%1,%2
%%%endmacro

%%%else; !PIC -----------------------------------

%%%define GOTOFF(got,sym) (sym)

%%%imacro get_GOT1.nolist
%%%endmacro
%%%imacro pushpic1.nolist
push%1
%%%endmacro
%%%imacro poppic1.nolist
pop%1
%%%endmacro
%%%imacro movpic2.nolist
mov%1,%2
%%%endmacro
; Align the next instruction on {2,4,8,16...}-byte boundary.
; ".balign n,,m" in GNU as
;
%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))

%imacro alignx 1-2.nolist 0xFFFF
%%bs:	times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \
    db 0x90            ; nop
    times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \
    db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
    times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
    db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
    times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
    db 0x8D,0xAD,0x00,0x00,0x00,0x00      ; lea ebp,[ebp+0x00000000]
    times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
    db 0x8D,0x6C,0x25,0x00                ; mov ebp,ebp
    times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \
    db 0x8D,0x6D,0x00                     ; lea ebp,[ebp+0x0000]
    times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \
    db 0x8B,0xED                          ; mov ebp,ebp
    times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \
    db 0x90                               ; nop
%endmacro

; Align the next data on {2,4,8,16...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro

%ifdef __x86_64__

%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub rdi, SIZEOF_XMMWORD
movaps XMMWORD [rdi], xmm6
sub rdi, SIZEOF_XMMWORD
movaps XMMWORD [rdi], xmm7
%endmacro

%macro uncollect_args 0
movaps xmm7, XMMWORD [rdi]
add rdi, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rdi]
add rdi, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%macro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx
mov r13, rcx
mov r14, r8
mov r15, r9
%endmacro

%macro uncollect_args 0
pop r15
pop r14
pop r13
pop r12
pop r11
pop r10
%endmacro
* Released under the MIT, BSD, and GPL Licenses.
* More information: http://sizzlejs.com/
*/
/*
* jQuery UI 1.7.2
*
* Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
* Dual licensed under the MIT (MIT-LICENSE.txt)
* and GPL (GPL-LICENSE.txt) licenses.
*
* http://docs.jquery.com/UI
*/
/**
* jQuery.ScrollTo - Easy element scrolling using jQuery.
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
* Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/doc/html/jquery.js
No license file was found, but licenses were detected in source scan.

/*
* jsimd_arm.c
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.
*
* Based on the stubs from 'jsimd_none.c'
*/

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/simd/jsimd_arm.c
No license file was found, but licenses were detected in source scan.
Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/release/deb-control.tmpl
No license file was found, but licenses were detected in source scan.

*******************************************************************************
**     Background
*******************************************************************************

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less
powerful but more straightforward TurboJPEG API. libjpeg-turbo also features
colorspace extensions that allow it to compress from/decompress to 32-bit and
big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java
interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated
derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and
VirtualGL projects made numerous enhancements to the codec in 2009, and in
early 2010, libjpeg-turbo spun off into an independent project, with the goal
of making high-speed JPEG compression/decompression technology available to a
broader range of users and developers.

*******************************************************************************
**     License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by
libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and
associated test programs bear a similar license, which is reproduced below:

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CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

*******************************************************************************
**     Using libjpeg-turbo
*******************************************************************************
libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

=====================================
Installation Directory
=====================================

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

=====================================
Replacing libjpeg at Run Time
=====================================

Un*x
----

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s
[Using libjpeg-turbo]

```bash
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/[lib]:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real  0m0.109s
user  0m0.029s
sys   0m0.010s
```

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

---

**Windows**

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application's copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application's install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft's web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

---

**Mac**

Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg...
dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to repoint the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

========================================
Using libjpeg-turbo in Your Own Programs
========================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

C\PATH=/opt/libjpeg-turbo/include
and
LIBRARY\PATH=/opt/libjpeg-turbo/{lib}

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

C\PATH=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY\PATH=/c/libjpeg-turbo-gcc[64]/lib

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY\PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

-Wl,-Bstatic -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.

To build Visual C++ applications using libjpeg-turbo, add c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment
variable, and then link against either jpeg.lib (to use the DLL version of libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

====================================
Colorsace Extensions
====================================

libjpeg-turbo includes extensions that allow JPEG images to be compressed directly from (and decompressed directly to) buffers that use BGR, BGRX, RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new colorspace constants:

JCS_EXT_RGB   /* red/green/blue */
JCS_EXT_RGBX  /* red/green/blue/x */
JCS_EXT_BGR   /* blue/green/red */
JCS_EXT_BGRX  /* blue/green/red/x */
JCS_EXT_XBGR  /* x/blue/green/red */
JCS_EXT_XRGB  /* x/red/green/blue */
JCS_EXT_RGBA  /* red/green/blue/alpha */
JCS_EXT_BGRA  /* blue/green/red/alpha */
JCS_EXT_ABGR  /* alpha/blue/green/red */
JCS_EXT_ARGB  /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space (decompression) to one of these values will cause libjpeg-turbo to read the red, green, and blue values from (or write them to) the appropriate position in the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile time with:

#ifdef JCS_EXTENSIONS

At run time, attempting to use these extensions with a libjpeg implementation that does not support them will result in a “Bogus input colorspace” error. Applications can trap this error in order to test whether run-time support is available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the X byte is undefined, and in order to ensure the best performance, libjpeg-turbo can set that byte to whatever value it wishes. If an application expects the X byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA, JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.

Your application can check for the existence of the alpha channel colorspace extensions at compile time with:
ifdef JCS_ALPHA_EXTENSIONS

jctest.c, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

===================================
libjpeg v7 and v8 API/ABI Emulation
===================================

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of --with-jpeg7 or --with-jpeg8 to configure, or an argument of -DWITH_JPEG7=1 or -DWITH_JPEG8=1 to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

Support for libjpeg v7 and v8 Features:
---------------------------------------

Fully supported:

-- libjpeg: IDCT scaling extensions in decompressor
libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only
for convenience purposes. It has always been possible to implement this feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the usefulness of DCT scaling as a means of data reduction and SmartScale as a means of quality improvement. The reader is invited to peruse the research at http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions, but it is the general belief of our project that these features have not demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
  cinfo.scale_num and cinfo.scale_denom are silently ignored.
  There is no technical reason why DCT scaling could not be supported when emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and 8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
  cinfo.block_size is silently ignored.
  SmartScale is an extension to the JPEG format that allows for DCT block sizes other than 8x8. Providing support for this new format would be feasible (particularly without full acceleration.) However, until/unless the format becomes either an official industry standard or, at minimum, an accepted solution in the community, we are hesitant to implement it, as there is no sense of whether or how it might change in the future. It is our belief that SmartScale has not demonstrated sufficient usefulness as a lossless format nor as a means of quality enhancement, and thus, our primary interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?

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

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=====================================  
In-Memory Source/Destination Managers  
=====================================  

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.
On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

******************************************************************************************
** Mathematical Compatibility
******************************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or "non-smooth") chrominance upsampling, because libjpeg v8 does not support
merged upsampling with scaling factors > 1.

*******************************************************************************
** Performance Pitfalls
*******************************************************************************

==============
Restart Markers
==============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers in a way that makes the rest of the libjpeg infrastructure happy, so it is necessary to use the slow Huffman decoder when decompressing a JPEG image that has restart markers. This can cause the decompression performance to drop by as much as 20%, but the performance will still be much greater than that of libjpeg. Many consumer packages, such as PhotoShop, use restart markers when generating JPEG images, so images generated by those programs will experience this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce correct results whenever the fast integer forward DCT is used along with a JPEG quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization function in those cases. This causes performance to drop by as much as 40%. It is therefore strongly advised that you use the slow integer forward DCT whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/README-turbo.txt
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/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdout stream.
 */
Based on code contributed by Lee Daniel Crocker.

*/

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*/opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/wrtarga.c
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 jcphuff.c

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This file contains Huffman entropy encoding routines for progressive JPEG.
We do not support output suspension in this module, since the library
currently does not allow multiple-scan files to be written with output
suspension.

*/

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*/opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/jcphuff.c
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 jcomapi.c

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This file contains application interface routines that are used for both
compression and decompression.

*/

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 jconfig.txt

Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
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* 
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
* 
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
* 
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
 * These symbols indicate the properties of your machine or compiler.
 * #define the symbol if yes, #undef it if no.
 */

/* Does your compiler support function prototypes?
 * (If not, you also need to use ansi2knr, see install.txt)
 */
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char" ?
 * How about "unsigned short" ?
 */
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
 * NOTE: be sure to define void such that "void *" represents the most general
 * pointer type, e.g., that returned by malloc().
 */
#ifndef void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
 */
#ifndef const */

/* Define this if an ordinary "char" type is unsigned.
 * If you're not sure, leaving it undefined will work at some cost in speed.
 * If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
 */
#ifndef CHAR_IS_UNSIGNED
/* Define this if your system has an ANSI-conforming <stddef.h> file.
 */
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
 */
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
 * but does have a BSD-style <strings.h>.
 */
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
 * ANSI-standard places (stddef.h, stdlib.h, or stdio.h), but places it in
 * <sys/types.h> instead.
 */
#undef NEED_SYS_TYPES_H

/* For 80x86 machines, you need to define NEED_FAR_POINTERS,
 * unless you are using a large-data memory model or 80386 flat-memory mode.
 * On less brain-damaged CPUs this symbol must not be defined.
 * (Defining this symbol causes large data structures to be referenced through
 * "far" pointers and to be allocated with a special version of malloc.)
 */
#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
 * than the first 15 characters.
 */
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
 * unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
 * and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
 * define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
 * actually get "missing structure definition" warnings or errors while
 * compiling the JPEG code.
 */
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
 */
#if defined _WIN32
#ifndef __RPCNDR_H__ /* don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN /* prevent jmorecfg.h from redefining it */
/*
 * The following options affect code selection within the JPEG library,
 * but they don't need to be visible to applications using the library.
 * To minimize application namespace pollution, the symbols won't be
 * defined unless JPEG_INTERNALS has been defined.
 */

#endif

/* Define this if your compiler implements ">>" on signed values as a logical
 * (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
 * which is the normal and rational definition.
 */
#undef RIGHT_SHIFT_IS_UNSIGNED

#endif /* JPEG_INTERNALS */

/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpeg/djpeg (see cjpeg.c, djpeg.c).
 * Other applications can ignore these.
 */

#ifndef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED/* BMP image file format */
#define GIF_SUPPORTED/* GIF image file format */
#define PPM_SUPPORTED/* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED/* Utah RLE image file format */
#define TARGA_SUPPORTED/* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin. You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout. See comments at
 * head of cjpeg.c or djpeg.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
/*
 #undef NEED_SIGNAL_CATCHER

 /* By default, we open image files with fopen(...,"rb") or fopen(...,"wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't. If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
 #undef DONT_USE_B_MODE

 /* Define this if you want percent-done progress reports from cjpeg/djpeg.
 */
 #undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
 /* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-
 ORlP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/cconfig.txt
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 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 */

/* Portions of this code are based on the PBMPPLUS library, which is:
 **
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
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*/

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* /opt/cola/permits/1148333252_1619430319.09/0/libjpeg-turbo-1.2.90-8.el7-1.src.rpm-cosi-expand-archive-ORIP9tmG/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-Qey2svTn/libjpeg-turbo-1.2.90/rddpm.c

1.1183 spring-aop 4.3.22.RELEASE

1.1183.1 Available under license:

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 */

Found in path(s):
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/config/AspectComponentDefinition.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/SpringProxy.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/AfterAdvice.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/AdvisedSupportListener.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/config/AspectEntry.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/BeforeAdvice.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/AopInfrastructureBean.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-
jar/org/springframework/aop/ClassFilter.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/IntroductionInterceptor.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/RawTargetAccess.java
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

Found in path(s):
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/aopalliance/intercept/MethodInterceptor.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/aopalliance/intercept/ConstructorInterceptor.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/aopalliance/aop/Advice.java
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* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java
* /opt/cola/permits/1141297475_1614969018.02/0/spring-aop-4-3-22-release-sources-3-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
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Sachin Garg [India]
sachingarg@c10n.info


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 *
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 * *
 * This file contains initialization logic for the JPEG compressor.
 * This routine is in charge of selecting the modules to be executed and
 * making an initialization call to each one.
 * *
 * Logically, this code belongs in jcmaster.c. It's split out because
 * linking this routine implies linking the entire compression library.
 * For a transcoding-only application, we want to be able to use jcmaster.c
 * without linking in the whole library.
 */

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* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/testimages/nightshot_iso_100.txt

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 *
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 *
 * This file contains code for merged upsampling/color conversion.
 *
 * This file combines functions from jdsample.c and jdcolor.c;
 * read those files first to understand what's going on.
 *
 * When the chroma components are to be upsampled by simple replication
 * (ie, box filtering), we can save some work in color conversion by
 * calculating all the output pixels corresponding to a pair of chroma
 * samples at one time. In the conversion equations
 * R = Y + K1 * Cr
 * G = Y + K2 * Cb + K3 * Cr
 * B = Y + K4 * Cb
 * only the Y term varies among the group of pixels corresponding to a pair
 * of chroma samples, so the rest of the terms can be calculated just once.
 * At typical sampling ratios, this eliminates half or three-quarters of the
 * multiplications needed for color conversion.
 *
 * This file currently provides implementations for the following cases:
 * YCbCr => RGB color conversion only.
 * Sampling ratios of 2h1v or 2h2v.
 * No scaling needed at upsample time.
 * Corner-aligned (non-CCIR601) sampling alignment.
 * Other special cases could be added, but in most applications these are
 * the only common cases. (For uncommon cases we fall back on the more
 * general code in jdsample.c and jdcolor.c.)
 */

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*/
*/
*

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* 
* This file contains application interface code for the compression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-compression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_compress, it will end up linking in the entire compressor.
* We thus must separate this file from jcapimin.c to avoid linking the
* whole compression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcapistd.c
No license file was found, but licenses were detected in source scan.

/*
* jsimd.h
* 
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
* jsimd_arm.c
* 
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on
* ARM architecture.

* Based on the stubs from 'jsimd_none.c'

*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.050/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd_arm.c
No license file was found, but licenses were detected in source scan.

/ *
* jaricom.c
*

* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains probability estimation tables for common use in
* arithmetic entropy encoding and decoding routines.
*
* This data represents Table D.2 in the JPEG spec (ISO/IEC IS 10918-1
* and CCITT Recommendation ITU-T T.81) and Table 24 in the JBIG spec
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.050/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jaricom.c
No license file was found, but licenses were detected in source scan.

/ *
* cderror.h
*

* Copyright (C) 1994-1997, Thomas G. Lane.
* Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file defines the error and message codes for the cjjpeg/djpeg
* applications. These strings are not needed as part of the JPEG library
* proper.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.050/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/cderror.h
No license file was found, but licenses were detected in source scan.

/*
 * cdjpeg.h
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains common declarations for the sample applications
 * cjpeg and djpeg. It is NOT used by the core JPEG library.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/cdjpeg.h
No license file was found, but licenses were detected in source scan.

/*
 * jQuery JavaScript Library v1.3.2
 * http://jquery.com/
 *
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com/License
 *
 * Date: 2009-02-19 17:34:21 -0500 (Thu, 19 Feb 2009)
 * Revision: 6246
 */

/*
 * Sizzle CSS Selector Engine - v0.9.3
 * Copyright 2009, The Dojo Foundation
 * Released under the MIT, BSD, and GPL Licenses.
 * More information: http://sizzlejs.com/
 */

/*
 * jQuery UI 1.7.2
 *
 * Copyright (c) 2009 AUTHORS.txt (http://jqueryui.com/about)
 * Dual licensed under the MIT (MIT-LICENSE.txt)
 * and GPL (GPL-LICENSE.txt) licenses.
 *
 * http://docs.jquery.com/UI
 */

/**
 * jQuery.ScrollTo - Easy element scrolling using jQuery.
 * Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com
 * Licensed under GPL license (http://www.opensource.org/licenses/gpl-license.php).
* Date: 2/8/2008
* @author Ariel Flesler
* @version 1.3.2
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/doc/html/jquery.js
No license file was found, but licenses were detected in source scan.

/*
 * jutils.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains tables and miscellaneous utility routines needed
 * for both compression and decompression.
 * Note we prefix all global names with "j" to minimize conflicts with
 * a surrounding application.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jutils.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; for more details.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2fst-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jimmxfst.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2fst.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfmmxfst.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfss2fst.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfss2fst-64.asm
No license file was found, but licenses were detected in source scan.

/*
 * jdmarker.c
This file was part of the Independent JPEG Group's software:

* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2012, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

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

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

This file contains the interface between the "normal" portions
of the library and the SIMD implementations when running on a
x86_64 architecture.

libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2,
NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64,
and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as
libjpeg, all else being equal. On other types of systems, libjpeg-turbo can
still outperform libjpeg by a significant amount, by virtue of its
highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

*******************************************************************************
** License
*******************************************************************************

Most of libjpeg-turbo inherits the non-restrictive, BSD-style license used by libjpeg (see README.) The TurboJPEG wrapper (both C and Java versions) and associated test programs bear a similar license, which is reproduced below:

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** Using libjpeg-turbo
*******************************************************************************

libjpeg-turbo includes two APIs that can be used to compress and decompress JPEG images:

TurboJPEG API: This API provides an easy-to-use interface for compressing and decompressing JPEG images in memory. It also provides some functionality that would not be straightforward to achieve using the underlying libjpeg API, such as generating planar YUV images and performing multiple simultaneous lossless transforms on an image. The Java interface for libjpeg-turbo is written on top of the TurboJPEG API.

libjpeg API: This is the de facto industry-standard API for compressing and decompressing JPEG images. It is more difficult to use than the TurboJPEG API but also more powerful. The libjpeg API implementation in libjpeg-turbo is both API/ABI-compatible and mathematically compatible with libjpeg v6b. It can also optionally be configured to be API/ABI-compatible with libjpeg v7 and v8 (see below.)

There is no significant performance advantage to either API when both are used to perform similar operations.

Installation Directory
======================

This document assumes that libjpeg-turbo will be installed in the default directory (/opt/libjpeg-turbo on Un*x and Mac systems and c:\libjpeg-turbo[-gcc][64] on Windows systems. If your installation of libjpeg-turbo resides in a different directory, then adjust the instructions accordingly.

Replacing libjpeg at Run Time
=============================

Un*x
-----

If a Un*x application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by manipulating LD_LIBRARY_PATH. For instance:

[Using libjpeg]
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.392s
user 0m0.074s
sys 0m0.020s

[Using libjpeg-turbo]
> export LD_LIBRARY_PATH=/opt/libjpeg-turbo/{lib}:$LD_LIBRARY_PATH
> time cjpeg <vgl_5674_0098.ppm >vgl_5674_0098.jpg
real 0m0.109s
user 0m0.029s
sys 0m0.010s

({lib} = lib32 or lib64, depending on whether you wish to use the 32-bit or the 64-bit version of libjpeg-turbo.)

System administrators can also replace the libjpeg symlinks in /usr/lib* with links to the libjpeg-turbo dynamic library located in /opt/libjpeg-turbo/{lib}. This will effectively accelerate every application that uses the libjpeg dynamic library on the system.

Windows
-----

If a Windows application is dynamically linked with libjpeg, then you can replace libjpeg with libjpeg-turbo at run time by backing up the application’s copy of jpeg62.dll, jpeg7.dll, or jpeg8.dll (assuming the application has its own local copy of this library) and copying the corresponding DLL from libjpeg-turbo into the application’s install directory. The official libjpeg-turbo binary packages only provide jpeg62.dll. If the application uses jpeg7.dll or jpeg8.dll instead, then it will be necessary to build libjpeg-turbo from source (see "libjpeg v7 and v8 API/ABI Emulation" below.)

The following information is specific to the official libjpeg-turbo binary packages for Visual C++:

-- jpeg62.dll requires the Visual C++ 2008 C run-time DLL (msvcr90.dll). msvcr90.dll ships with more recent versions of Windows, but users of older Windows releases can obtain it from the Visual C++ 2008 Redistributable Package, which is available as a free download from Microsoft’s web site.

-- Features of the libjpeg API that require passing a C run-time structure, such as a file handle, from an application to the library will probably not work with jpeg62.dll, unless the application is also built to use the Visual C++ 2008 C run-time DLL. In particular, this affects jpeg_stdio_dest() and jpeg_stdio_src().

Mac
---
Mac applications typically embed their own copies of the libjpeg dylib inside the (hidden) application bundle, so it is not possible to globally replace libjpeg on OS X systems. Replacing the application's version of the libjpeg dylib would generally involve copying libjpeg.*.dylib from libjpeg-turbo into the appropriate place in the application bundle and using install_name_tool to re-point the libjpeg-turbo dylib to its new directory. This requires an advanced knowledge of OS X and would not survive an upgrade or a re-install of the application. Thus, it is not recommended for most users.

========================================
Using libjpeg-turbo in Your Own Programs
========================================

For the most part, libjpeg-turbo should work identically to libjpeg, so in most cases, an application can be built against libjpeg and then run against libjpeg-turbo. On Un*x systems and Cygwin, you can build against libjpeg-turbo instead of libjpeg by setting

CPaths=/opt/libjpeg-turbo/include
and
LIBRARY_PATH=/opt/libjpeg-turbo/{lib}

({lib} = lib32 or lib64, depending on whether you are building a 32-bit or a 64-bit application.)

If using MinGW, then set

CPaths=/c/libjpeg-turbo-gcc[64]/include
and
LIBRARY_PATH=/c/libjpeg-turbo-gcc[64]/lib

Building against libjpeg-turbo is useful, for instance, if you want to build an application that leverages the libjpeg-turbo colorspace extensions (see below.) On Un*x systems, you would still need to manipulate LD_LIBRARY_PATH or create appropriate symlinks to use libjpeg-turbo at run time. On such systems, you can pass -R /opt/libjpeg-turbo/{lib} to the linker to force the use of libjpeg-turbo at run time rather than libjpeg (also useful if you want to leverage the colorspace extensions), or you can link against the libjpeg-turbo static library.

To force a Un*x or MinGW application to link against the static version of libjpeg-turbo, you can use the following linker options:

-Wl,-Bstatic -ljpeg -Wl,-Bdynamic

On OS X, simply add /opt/libjpeg-turbo/lib/libjpeg.a to the linker command line.
To build Visual C++ applications using libjpeg-turbo, add

c:\libjpeg-turbo[64]\include to the system or user INCLUDE environment
variable and c:\libjpeg-turbo[64]\lib to the system or user LIB environment
variable, and then link against either jpeg.lib (to use the DLL version of
libjpeg-turbo) or jpeg-static.lib (to use the static version of libjpeg-turbo.)

====================================
Colorspace Extensions
====================================

libjpeg-turbo includes extensions that allow JPEG images to be compressed
directly from (and decompressed directly to) buffers that use BGR, BGRX,
RGBX, XBGR, and XRGB pixel ordering. This is implemented with ten new
colorspace constants:

JCS_EXT_RGB    /* red/green/blue */
JCS_EXT_RGBX   /* red/green/blue/x */
JCS_EXT_BGR    /* blue/green/red */
JCS_EXT_BGRX   /* blue/green/red/x */
JCS_EXT_XBGR   /* x/blue/green/red */
JCS_EXT_XRGB   /* x/red/green/blue */
JCS_EXT_RGBA   /* red/green/blue/alpha */
JCS_EXT_BGRA   /* blue/green/red/alpha */
JCS_EXT_ABGR   /* alpha/blue/green/red */
JCS_EXT_ARGB   /* alpha/red/green/blue */

Setting cinfo.in_color_space (compression) or cinfo.out_color_space
(decompression) to one of these values will cause libjpeg-turbo to read the
red, green, and blue values from (or write them to) the appropriate position in
the pixel when compressing from/decompressing to an RGB buffer.

Your application can check for the existence of these extensions at compile
time with:

#ifdef JCS_EXTENSIONS

At run time, attempting to use these extensions with a libjpeg implementation
that does not support them will result in a "Bogus input colorspace" error.
Applications can trap this error in order to test whether run-time support is
available for the colorspace extensions.

When using the RGBX, BGRX, XBGR, and XRGB colorspaces during decompression, the
X byte is undefined, and in order to ensure the best performance, libjpeg-turbo
can set that byte to whatever value it wishes. If an application expects the X
byte to be used as an alpha channel, then it should specify JCS_EXT_RGBA,
JCS_EXT_BGRA, JCS_EXT_ABGR, or JCS_EXT_ARGB. When these colorspace constants
are used, the X byte is guaranteed to be 0xFF, which is interpreted as opaque.
Your application can check for the existence of the alpha channel colorspace extensions at compile time with:

```c
#ifndef JCS_ALPHA_EXTENSIONS
```

`jctest.c`, located in the libjpeg-turbo source tree, demonstrates how to check for the existence of the colorspace extensions at compile time and run time.

---

**libjpeg v7 and v8 API/ABI Emulation**

With libjpeg v7 and v8, new features were added that necessitated extending the compression and decompression structures. Unfortunately, due to the exposed nature of those structures, extending them also necessitated breaking backward ABI compatibility with previous libjpeg releases. Thus, programs that were built to use libjpeg v7 or v8 did not work with libjpeg-turbo, since it is based on the libjpeg v6b code base. Although libjpeg v7 and v8 are still not as widely used as v6b, enough programs (including a few Linux distros) made the switch that there was a demand to emulate the libjpeg v7 and v8 ABIs in libjpeg-turbo. It should be noted, however, that this feature was added primarily so that applications that had already been compiled to use libjpeg v7+ could take advantage of accelerated baseline JPEG encoding/decoding without recompiling. libjpeg-turbo does not claim to support all of the libjpeg v7+ features, nor to produce identical output to libjpeg v7+ in all cases (see below.)

By passing an argument of `--with-jpeg7` or `--with-jpeg8` to configure, or an argument of `-DWITH_JPEG7=1` or `-DWITH_JPEG8=1` to cmake, you can build a version of libjpeg-turbo that emulates the libjpeg v7 or v8 ABI, so that programs that are built against libjpeg v7 or v8 can be run with libjpeg-turbo. The following section describes which libjpeg v7+ features are supported and which aren't.

**Support for libjpeg v7 and v8 Features:**

---

**Fully supported:**

-- libjpeg: IDCT scaling extensions in decompressor

libjpeg-turbo supports IDCT scaling with scaling factors of 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 9/8, 5/4, 11/8, 3/2, 13/8, 7/4, 15/8, and 2/1 (only 1/4 and 1/2 are SIMD-accelerated.)

-- libjpeg: arithmetic coding

-- libjpeg: In-memory source and destination managers
See notes below.

-- cjpeg: Separate quality settings for luminance and chrominance
Note that the libjpeg v7+ API was extended to accommodate this feature only
for convenience purposes. It has always been possible to implement this
feature with libjpeg v6b (see rdswitch.c for an example.)

-- cjpeg: 32-bit BMP support

-- cjpeg: -rgb option

-- jpegtran: lossless cropping

-- jpegtran: -perfect option

-- jpegtran: forcing width/height when performing lossless crop

-- rdjpgcom: -raw option

-- rdjpgcom: locale awareness

Not supported:

NOTE: As of this writing, extensive research has been conducted into the
usefulness of DCT scaling as a means of data reduction and SmartScale as a
means of quality improvement. The reader is invited to peruse the research at
http://www.libjpeg-turbo.org/About/SmartScale and draw his/her own conclusions,
but it is the general belief of our project that these features have not
demonstrated sufficient usefulness to justify inclusion in libjpeg-turbo.

-- libjpeg: DCT scaling in compressor
cinfo.scale_num and cinfo.scale_denom are silently ignored.
There is no technical reason why DCT scaling could not be supported when
emulating the libjpeg v7+ API/ABI, but without the SmartScale extension (see
below), only scaling factors of 1/2, 8/15, 4/7, 8/13, 2/3, 8/11, 4/5, and
8/9 would be available, which is of limited usefulness.

-- libjpeg: SmartScale
cinfo.block_size is silently ignored.
SmartScale is an extension to the JPEG format that allows for DCT block
sizes other than 8x8. Providing support for this new format would be
feasible (particularly without full acceleration.) However, until/unless
the format becomes either an official industry standard or, at minimum, an
accepted solution in the community, we are hesitant to implement it, as
there is no sense of whether or how it might change in the future. It is
our belief that SmartScale has not demonstrated sufficient usefulness as a
lossless format nor as a means of quality enhancement, and thus, our primary
interest in providing this feature would be as a means of supporting additional DCT scaling factors.

-- libjpeg: Fancy downsampling in compressor
cinfo.do_fancy_downsampling is silently ignored.
This requires the DCT scaling feature, which is not supported.

-- jpegtran: Scaling
This requires both the DCT scaling and SmartScale features, which are not supported.

-- Lossless RGB JPEG files
This requires the SmartScale feature, which is not supported.

What About libjpeg v9?
------------------------

libjpeg v9 introduced yet another field to the JPEG compression structure (color_transform), thus making the ABI backward incompatible with that of libjpeg v8. This new field was introduced solely for the purpose of supporting lossless SmartScale encoding. Further, there was actually no reason to extend the API in this manner, as the color transform could have just as easily been activated by way of a new JPEG colorspace constant, thus preserving backward ABI compatibility.

Our research (see link above) has shown that lossless SmartScale does not generally accomplish anything that can't already be accomplished better with existing, standard lossless formats. Thus, at this time, it is our belief that there is not sufficient technical justification for software to upgrade from libjpeg v8 to libjpeg v9, and therefore, not sufficient technical justification for us to emulate the libjpeg v9 ABI.

=======================================
In-Memory Source/Destination Managers
=======================================

By default, libjpeg-turbo 1.3 and later includes the jpeg_mem_src() and jpeg_mem_dest() functions, even when not emulating the libjpeg v8 API/ABI. Previously, it was necessary to build libjpeg-turbo from source with libjpeg v8 API/ABI emulation in order to use the in-memory source/destination managers, but several projects requested that those functions be included when emulating the libjpeg v6b API/ABI as well. This allows the use of those functions by programs that need them without breaking ABI compatibility for programs that don't, and it allows those functions to be provided in the "official" libjpeg-turbo binaries.

Those who are concerned about maintaining strict conformance with the libjpeg v6b or v7 API can pass an argument of --without-mem-srcdst to configure or
an argument of -DWITH_MEM_SRCDST=0 to CMake prior to building libjpeg-turbo. This will restore the pre-1.3 behavior, in which jpeg_mem_src() and jpeg_mem_dest() are only included when emulating the libjpeg v8 API/ABI.

On Un*x systems, including the in-memory source/destination managers changes the dynamic library version from 62.0.0 to 62.1.0 if using libjpeg v6b API/ABI emulation and from 7.0.0 to 7.1.0 if using libjpeg v7 API/ABI emulation.

Note that, on most Un*x systems, the dynamic linker will not look for a function in a library until that function is actually used. Thus, if a program is built against libjpeg-turbo 1.3+ and uses jpeg_mem_src() or jpeg_mem_dest(), that program will not fail if run against an older version of libjpeg-turbo or against libjpeg v7- until the program actually tries to call jpeg_mem_src() or jpeg_mem_dest(). Such is not the case on Windows. If a program is built against the libjpeg-turbo 1.3+ DLL and uses jpeg_mem_src() or jpeg_mem_dest(), then it must use the libjpeg-turbo 1.3+ DLL at run time.

Both cjpeg and djpeg have been extended to allow testing the in-memory source/destination manager functions. See their respective man pages for more details.

*******************************************************************************
**     Mathematical Compatibility                                      **
*******************************************************************************

For the most part, libjpeg-turbo should produce identical output to libjpeg v6b. The one exception to this is when using the floating point DCT/IDCT, in which case the outputs of libjpeg v6b and libjpeg-turbo are not guaranteed to be identical (the accuracy of the floating point DCT/IDCT is constant when using libjpeg-turbo's SIMD extensions, but otherwise, it can depend heavily on the compiler and compiler settings.)

While libjpeg-turbo does emulate the libjpeg v8 API/ABI, under the hood, it is still using the same algorithms as libjpeg v6b, so there are several specific cases in which libjpeg-turbo cannot be expected to produce the same output as libjpeg v8:

-- When decompressing using scaling factors of 1/2 and 1/4, because libjpeg v8 implements those scaling algorithms a bit differently than libjpeg v6b does, and libjpeg-turbo's SIMD extensions are based on the libjpeg v6b behavior.

-- When using chrominance subsampling, because libjpeg v8 implements this with its DCT/IDCT scaling algorithms rather than with a separate downsampling/upsampling algorithm.

-- When using the floating point IDCT, for the reasons stated above and also because the floating point IDCT algorithm was modified in libjpeg v8a to
improve accuracy.

-- When decompressing using a scaling factor > 1 and merged (AKA "non-fancy" or 
"non-smooth") chrominance upsampling, because libjpeg v8 does not support
merged upsampling with scaling factors > 1.

*******************************************************************************
**    Performance Pitfalls
*******************************************************************************

================
Restart Markers
===============

The optimized Huffman decoder in libjpeg-turbo does not handle restart markers
in a way that makes the rest of the libjpeg infrastructure happy, so it is
necessary to use the slow Huffman decoder when decompressing a JPEG image that
has restart markers. This can cause the decompression performance to drop by
as much as 20%, but the performance will still be much greater than that of
libjpeg. Many consumer packages, such as PhotoShop, use restart markers when
generating JPEG images, so images generated by those programs will experience
this issue.

===============================================
Fast Integer Forward DCT at High Quality Levels
===============================================

The algorithm used by the SIMD-accelerated quantization function cannot produce
correct results whenever the fast integer forward DCT is used along with a JPEG
quality of 98-100. Thus, libjpeg-turbo must use the non-SIMD quantization
function in those cases. This causes performance to drop by as much as 40%.
It is therefore strongly advised that you use the slow integer forward DCT
whenever encoding images with a JPEG quality of 98 or higher.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/README-turbo.txt
No license file was found, but licenses were detected in source scan.

/*
 * jmemsys.h
 *
 * Copyright (C) 1992-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * *
 * This include file defines the interface between the system-independent
and system-dependent portions of the JPEG memory manager. No other modules need include it. (The system-independent portion is jmemmgr.c; there are several different versions of the system-dependent portion.)

This file works as-is for the system-dependent memory managers supplied in the IJG distribution. You may need to modify it if you write a custom memory manager. If system-dependent changes are needed in this file, the best method is to #ifdef them based on a configuration symbol supplied in jconfig.h, as we have done with USE_MSDOS_MEMMGR and USE_MAC_MEMMGR.

*/

---

```c
/*
 * rdppm.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed PPM format).
 *
 * Portions of this code are based on the PBMPLUS library, which is:
 ***
 ** Copyright (C) 1988 by Jef Poskanzer.
 **
 ** Permission to use, copy, modify, and distribute this software and its
 ** documentation for any purpose and without fee is hereby granted, provided
 ** that the above copyright notice appear in all copies and that both that
 ** copyright notice and this permission notice appear in supporting
 ** documentation. This software is provided "as is" without express or
 ** implied warranty.
 */
```
Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdppm.c
No license file was found, but licenses were detected in source scan.

/*
 * jdmainct.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for decompression.
 * The main buffer lies between the JPEG decompressor proper and the
 * post-processor; it holds downsampled data in the JPEG colorspace.
 *
 * Note that this code is bypassed in raw-data mode, since the application
 * supplies the equivalent of the main buffer in that case.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdmainct.c
No license file was found, but licenses were detected in source scan.

/*
 * jdtrans.c
 *
 * Copyright (C) 1995-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcoding decompression,
 * that is, reading raw DCT coefficient arrays from an input JPEG file.
 * The routines in jdadimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdtrans.c
No license file was found, but licenses were detected in source scan.

libjpeg-turbo note: This file has been modified by The libjpeg-turbo Project to include only information relevant to libjpeg-turbo, to wordsmith certain sections, and to remove impolitic language that existed in the libjpeg v8
The Independent JPEG Group's JPEG software
==========================================

This distribution contains a release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

This software is the work of Tom Lane, Guido Vollbeding, Philip Gladstone, Bill Allombert, Jim Boucher, Lee Crocker, Bob Friesenhahn, Ben Jackson, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16).

DOCUMENTATION ROADMAP
=====================

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software not to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.
The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

We welcome the use of this software as a component of commercial products. No royalty is required, but we do ask for an acknowledgement in product documentation, as described under LEGAL ISSUES.

LEGAL ISSUES
===============

In plain English:

1. We don't promise that this software works. (But if you find any bugs, please let us know!)
2. You can use this software for whatever you want. You don't have to pay us.
3. You may not pretend that you wrote this software. If you use it in a program, you must acknowledge somewhere in your documentation that you've used the IJG code.

In legalese:

The authors make NO WARRANTY or representation, either express or implied, with respect to this software, its quality, accuracy, merchantability, or fitness for a particular purpose. This software is provided "AS IS", and you, its user, assume the entire risk as to its quality and accuracy.

This software is copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding. All Rights Reserved except as specified below.

Permission is hereby granted to use, copy, modify, and distribute this software (or portions thereof) for any purpose, without fee, subject to these conditions:
(1) If any part of the source code for this software is distributed, then this README file must be included, with this copyright and no-warranty notice unaltered; and any additions, deletions, or changes to the original files must be clearly indicated in accompanying documentation.
(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".
(3) Permission for use of this software is granted only if the user accepts full responsibility for any undesirable consequences; the authors accept NO LIABILITY for damages of any kind.
These conditions apply to any software derived from or based on the IJG code, not just to the unmodified library. If you use our work, you ought to acknowledge us.

Permission is NOT granted for the use of any IJG author's name or company name in advertising or publicity relating to this software or products derived from it. This software may be referred to only as "the Independent JPEG Group's software".

We specifically permit and encourage the use of this software as the basis of commercial products, provided that all warranty or liability claims are assumed by the product vendor.

The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltmain.sh). Another support script, install-sh, is copyright by X Consortium but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that "The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
==========

We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.iijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics)
omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm.
A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.
ARCHIVE LOCATIONS

The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8d.zip.


If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

FILE FORMAT WARS

The ISO/IEC JTC1/SC29/WG1 standards committee (also known as JPEG, together with ITU-T SG16) currently promotes different formats containing the name "JPEG" which are incompatible with original DCT-based JPEG. IJG therefore does not support these formats (see REFERENCES). Indeed, one of the original reasons for developing this free software was to help force convergence on common, interoperable format standards for JPEG files. Don't use an incompatible file format! (In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiuQUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/README
No license file was found, but licenses were detected in source scan.

/
* jdatasrc-tj.c
*
/* This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 */

/*
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdatasrc-tj.c
No license file was found, but licenses were detected in source scan.

/*
 * jcdctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 1999-2006, MIYASAKA Masaru.
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2011 D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the forward-DCT management logic.
 * This code selects a particular DCT implementation to be used,
 * and it performs related housekeeping chores including coefficient
 * quantization.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcdctmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jcapimin.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 */
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains application interface code for the compression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-compression case or the transcoding-only
* case.
* 
* Most of the routines intended to be called directly by an application
* are in this file or in jcapistd.c. But also see jeparam.c for
* parameter-setup helper routines, jcomapi.c for routines shared by
* compression and decompression, and jctrans.c for the transcoding case.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiiQL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-1P8tPYZjlibjpeg-turbo-1.2.90/jcapimin.c
No license file was found, but licenses were detected in source scan.

IJG JPEG LIBRARY: SYSTEM ARCHITECTURE

Copyright (C) 1991-2012, Thomas G. Lane, Guido Vollbeding.
This file was part of the Independent JPEG Group's software.
It was modified by The libjpeg-turbo Project to include only information
relevant to libjpeg-turbo.
For conditions of distribution and use, see the accompanying README file.

This file provides an overview of the architecture of the IJG JPEG software;
that is, the functions of the various modules in the system and the interfaces
between modules. For more precise details about any data structure or calling
convention, see the include files and comments in the source code.

We assume that the reader is already somewhat familiar with the JPEG standard.
The README file includes references for learning about JPEG. The file
libjpeg.txt describes the library from the viewpoint of an application
programmer using the library; it's best to read that file before this one.
Also, the file coderules.txt describes the coding style conventions we use.

In this document, JPEG-specific terminology follows the JPEG standard:
A "component" means a color channel, e.g., Red or Luminance.
A "sample" is a single component value (i.e., one number in the image data).
A "coefficient" is a frequency coefficient (a DCT transform output number).
A "block" is an 8x8 group of samples or coefficients.
An "MCU" (minimum coded unit) is an interleaved set of blocks of size
determined by the sampling factors, or a single block in a
noninterleaved scan.
We do not use the terms "pixel" and "sample" interchangeably. When we say
pixel, we mean an element of the full-size image, while a sample is an element of the downsampled image. Thus the number of samples may vary across components while the number of pixels does not. (This terminology is not used rigorously throughout the code, but it is used in places where confusion would otherwise result.)

*** System features ***

The IJG distribution contains two parts:
* A subroutine library for JPEG compression and decompression.
* cjpeg/djpeg, two sample applications that use the library to transform JFIF JPEG files to and from several other image formats. cjpeg/djpeg are of no great intellectual complexity: they merely add a simple command-line user interface and I/O routines for several uncompressed image formats. This document concentrates on the library itself.

We desire the library to be capable of supporting all JPEG baseline, extended sequential, and progressive DCT processes. Hierarchical processes are not supported.

The library does not support the lossless (spatial) JPEG process. Lossless JPEG shares little or no code with lossy JPEG, and would normally be used without the extensive pre- and post-processing provided by this library. We feel that lossless JPEG is better handled by a separate library.

Within these limits, any set of compression parameters allowed by the JPEG spec should be readable for decompression. (We can be more restrictive about what formats we can generate.) Although the system design allows for all parameter values, some uncommon settings are not yet implemented and may never be; nonintegral sampling ratios are the prime example. Furthermore, we treat 8-bit vs. 12-bit data precision as a compile-time switch, not a run-time option, because most machines can store 8-bit pixels much more compactly than 12-bit.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, libtiff uses this library to implement JPEG compression within the TIFF file format.)

The library includes a substantial amount of code that is not covered by the JPEG standard but is necessary for typical applications of JPEG. These functions preprocess the image before JPEG compression or postprocess it after decompression. They include colorspace conversion, downsampling/upsampling, and color quantization. This code can be omitted if not needed.

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

*** Portability issues ***

Portability is an essential requirement for the library. The key portability issues that show up at the level of system architecture are:

1. Memory usage. We want the code to be able to run on PC-class machines with limited memory. Images should therefore be processed sequentially (in strips), to avoid holding the whole image in memory at once. Where a full-image buffer is necessary, we should be able to use either virtual memory or temporary files.

2. Near/far pointer distinction. To run efficiently on 80x86 machines, the code should distinguish "small" objects (kept in near data space) from "large" ones (kept in far data space). This is an annoying restriction, but fortunately it does not impact code quality for less brain-damaged machines, and the source code clutter turns out to be minimal with sufficient use of pointer typedefs.

3. Data precision. We assume that "char" is at least 8 bits, "short" and "int" at least 16, "long" at least 32. The code will work fine with larger data sizes, although memory may be used inefficiently in some cases. However, the JPEG compressed datastream must ultimately appear on external storage as a sequence of 8-bit bytes if it is to conform to the standard. This may pose a problem on machines where char is wider than 8 bits. The library represents compressed data as an array of values of typedef JOCTET. If no data type exactly 8 bits wide is available, custom data source and data destination modules must be written to unpack and pack the chosen JOCTET datatype into 8-bit external representation.

*** System overview ***

The compressor and decompressor are each divided into two main sections: the JPEG compressor or decompressor proper, and the preprocessing or postprocessing functions. The interface between these two sections is the image data that the official JPEG spec regards as its input or output: this data is in the colorspace to be used for compression, and it is downsampled to the sampling factors to be used. The preprocessing and postprocessing steps are responsible for converting a normal image representation to or from
this form. (Those few applications that want to deal with YCbCr downsampled data can skip the preprocessing or postprocessing step.)

Looking more closely, the compressor library contains the following main elements:

Preprocessing:
* Color space conversion (e.g., RGB to YCbCr).
* Edge expansion and downsampling. Optionally, this step can do simple smoothing --- this is often helpful for low-quality source data.
JPEG proper:
* MCU assembly, DCT, quantization.
* Entropy coding (sequential or progressive, Huffman or arithmetic).

In addition to these modules we need overall control, marker generation, and support code (memory management & error handling). There is also a module responsible for physically writing the output data --- typically this is just an interface to fwrite(), but some applications may need to do something else with the data.

The decompressor library contains the following main elements:

JPEG proper:
* Entropy decoding (sequential or progressive, Huffman or arithmetic).
* Dequantization, inverse DCT, MCU disassembly.
Postprocessing:
* Upsampling. Optionally, this step may be able to do more general rescaling of the image.
* Color space conversion (e.g., YCbCr to RGB). This step may also provide gamma adjustment [ currently it does not ].
* Optional color quantization (e.g., reduction to 256 colors).
* Optional color precision reduction (e.g., 24-bit to 15-bit color).
[This feature is not currently implemented.]

We also need overall control, marker parsing, and a data source module. The support code (memory management & error handling) can be shared with the compression half of the library.

There may be several implementations of each of these elements, particularly in the decompressor, where a wide range of speed/quality tradeoffs is very useful. It must be understood that some of the best speedups involve merging adjacent steps in the pipeline. For example, upsampling, color space conversion, and color quantization might all be done at once when using a low-quality ordered-dither technique. The system architecture is designed to allow such merging where appropriate.

Note: it is convenient to regard edge expansion (padding to block boundaries)
as a preprocessing/postprocessing function, even though the JPEG spec includes it in compression/decompression. We do this because downsampling/upsampling can be simplified a little if they work on padded data: it's not necessary to have special cases at the right and bottom edges. Therefore the interface buffer is always an integral number of blocks wide and high, and we expect compression preprocessing to pad the source data properly. Padding will occur only to the next block (8-sample) boundary. In an interleaved-scan situation, additional dummy blocks may be used to fill out MCUs, but the MCU assembly and disassembly logic will create or discard these blocks internally. (This is advantageous for speed reasons, since we avoid DCTing the dummy blocks. It also permits a small reduction in file size, because the compressor can choose dummy block contents so as to minimize their size in compressed form. Finally, it makes the interface buffer specification independent of whether the file is actually interleaved or not.) Applications that wish to deal directly with the downsampled data must provide similar buffering and padding for odd-sized images.

*** Poor man's object-oriented programming ***

It should be clear by now that we have a lot of quasi-independent processing steps, many of which have several possible behaviors. To avoid cluttering the code with lots of switch statements, we use a simple form of object-style programming to separate out the different possibilities.

For example, two different color quantization algorithms could be implemented as two separate modules that present the same external interface; at runtime, the calling code will access the proper module indirectly through an "object".

We can get the limited features we need while staying within portable C. The basic tool is a function pointer. An "object" is just a struct containing one or more function pointer fields, each of which corresponds to a method name in real object-oriented languages. During initialization we fill in the function pointers with references to whichever module we have determined we need to use in this run. Then invocation of the module is done by indirection through a function pointer; on most machines this is no more expensive than a switch statement, which would be the only other way of making the required run-time choice. The really significant benefit, of course, is keeping the source code clean and well structured.

We can also arrange to have private storage that varies between different implementations of the same kind of object. We do this by making all the module-specific object structs be separately allocated entities, which will be accessed via pointers in the master compression or decompression struct. The "public" fields or methods for a given kind of object are specified by a commonly known struct. But a module's initialization code can allocate a larger struct that contains the common struct as its first member, plus additional private fields. With appropriate pointer casting, the module's
internal functions can access these private fields. (For a simple example, see jdatast.c, which implements the external interface specified by struct jpeg_destination_mgr, but adds extra fields.)

(Of course this would all be a lot easier if we were using C++, but we are not yet prepared to assume that everyone has a C++ compiler.)

An important benefit of this scheme is that it is easy to provide multiple versions of any method, each tuned to a particular case. While a lot of precalculation might be done to select an optimal implementation of a method, the cost per invocation is constant. For example, the upsampling step might have a "generic" method, plus one or more "hardwired" methods for the most popular sampling factors; the hardwired methods would be faster because they'd use straight-line code instead of for-loops. The cost to determine which method to use is paid only once, at startup, and the selection criteria are hidden from the callers of the method.

This plan differs a little bit from usual object-oriented structures, in that only one instance of each object class will exist during execution. The reason for having the class structure is that on different runs we may create different instances (choose to execute different modules). You can think of the term "method" as denoting the common interface presented by a particular set of interchangeable functions, and "object" as denoting a group of related methods, or the total shared interface behavior of a group of modules.

*** Overall control structure ***

We previously mentioned the need for overall control logic in the compression and decompression libraries. In IJG implementations prior to v5, overall control was mostly provided by "pipeline control" modules, which proved to be large, unwieldy, and hard to understand. To improve the situation, the control logic has been subdivided into multiple modules. The control modules consist of:

1. Master control for module selection and initialization. This has two responsibilities:
   
   1A. Startup initialization at the beginning of image processing.
       The individual processing modules to be used in this run are selected and given initialization calls.
   
   1B. Per-pass control. This determines how many passes will be performed and calls each active processing module to configure itself appropriately at the beginning of each pass. End-of-pass processing, where necessary, is also invoked from the master control module.

   Method selection is partially distributed, in that a particular processing
module may contain several possible implementations of a particular method, which it will select among when given its initialization call. The master control code need only be concerned with decisions that affect more than one module.

2. Data buffering control. A separate control module exists for each inter-processing-step data buffer. This module is responsible for invoking the processing steps that write or read that data buffer.

Each buffer controller sees the world as follows:

```
input data => processing step A => buffer => processing step B => output data
            |                    |
            ------------------ controller ------------------
```

The controller knows the dataflow requirements of steps A and B: how much data they want to accept in one chunk and how much they output in one chunk. Its function is to manage its buffer and call A and B at the proper times.

A data buffer control module may itself be viewed as a processing step by a higher-level control module; thus the control modules form a binary tree with elementary processing steps at the leaves of the tree.

The control modules are objects. A considerable amount of flexibility can be had by replacing implementations of a control module. For example:

* Merging of adjacent steps in the pipeline is done by replacing a control module and its pair of processing-step modules with a single processing-step module. (Hence the possible merges are determined by the tree of control modules.)
* In some processing modes, a given interstep buffer need only be a "strip" buffer large enough to accommodate the desired data chunk sizes. In other modes, a full-image buffer is needed and several passes are required. The control module determines which kind of buffer is used and manipulates virtual array buffers as needed. One or both processing steps may be unaware of the multi-pass behavior.

In theory, we might be able to make all of the data buffer controllers interchangeable and provide just one set of implementations for all. In practice, each one contains considerable special-case processing for its particular job. The buffer controller concept should be regarded as an overall system structuring principle, not as a complete description of the task performed by any one controller.

*** Compression object structure ***

Here is a sketch of the logical structure of the JPEG compression library:
This sketch also describes the flow of control (subroutine calls) during typical image data processing. Each of the components shown in the diagram is an "object" which may have several different implementations available. One or more source code files contain the actual implementation(s) of each object.

The objects shown above are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the preprocessed input data. This controller invokes preprocessing to fill the subsampled-data buffer, and JPEG compression to empty it. There is usually no need for a full-image buffer here; a strip buffer is adequate.

* Preprocessing controller: buffer controller for the downsampling input data buffer, which lies between colorspace conversion and downsampling. Note that a unified conversion/downsampling module would probably replace this controller entirely.

* Colorspace conversion: converts application image data into the desired JPEG color space; also changes the data from pixel-interleaved layout to separate component planes. Processes one pixel row at a time.

* Downsampling: performs reduction of chroma components as required. Optionally may perform pixel-level smoothing as well. Processes a "row group" at a time, where a row group is defined as V_max pixel rows of each component before downsampling, and V_k sample rows afterwards (remember V_k differs across components). Some downsampling or smoothing algorithms may require context rows above and below the current row group; the preprocessing controller is responsible for supplying these rows via proper buffering. The downsampler is responsible for edge expansion at the right edge (i.e., extending each sample row to a multiple of 8 samples); but the preprocessing controller is responsible for vertical edge expansion (i.e., duplicating the bottom sample row as needed to make a multiple of 8 rows).

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU assembly, including insertion of dummy DCT blocks when needed at the right or bottom edge. When performing Huffman-code optimization or emitting a multiscan JPEG file, this controller is responsible for buffering the full image. The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the JPEG file is noninterleaved.
* Forward DCT and quantization: Perform DCT, quantize, and emit coefficients. Works on one or more DCT blocks at a time. (Note: the coefficients are now emitted in normal array order, which the entropy encoder is expected to convert to zigzag order as necessary. Prior versions of the IJG code did the conversion to zigzag order within the quantization step.)

* Entropy encoding: Perform Huffman or arithmetic entropy coding and emit the coded data to the data destination module. Works on one MCU per call. For progressive JPEG, the same DCT blocks are fed to the entropy coder during each pass, and the coder must emit the appropriate subset of coefficients.

In addition to the above objects, the compression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules.

* Marker writing: generates JPEG markers (except for RSTn, which is emitted by the entropy encoder when needed).

* Data destination manager: writes the output JPEG datastream to its final destination (e.g., a file). The destination manager supplied with the library knows how to write to a stdio stream or to a memory buffer; for other behaviors, the surrounding application may provide its own destination manager.

* Memory manager: allocates and releases memory, controls virtual arrays (with backing store management, where required).

* Error handler: performs formatting and output of error and trace messages; determines handling of nonfatal errors. The surrounding application may override some or all of this object's methods to change error handling.

* Progress monitor: supports output of "percent-done" progress reports. This object represents an optional callback to the surrounding application: if wanted, it must be supplied by the application.

The error handler, destination manager, and progress monitor objects are defined as separate objects in order to simplify application-specific customization of the JPEG library. A surrounding application may override individual methods or supply its own all-new implementation of one of these objects. The object interfaces for these objects are therefore treated as part of the application interface of the library, whereas the other objects are internal to the library.

The error handler and memory manager are shared by JPEG compression and
decompression; the progress monitor, if used, may be shared as well.

*** Decompression object structure ***

Here is a sketch of the logical structure of the JPEG decompression library:

```
|-- Entropy decoding
   |-- Coefficient controller --|
         |-- Dequantize, Inverse DCT
Main controller --|
      |                   |-- Upsampling
     |-- Postprocessing controller --|   |-- Colorspace conversion
                  |-- Color quantization
                               |-- Color precision reduction
```

As before, this diagram also represents typical control flow. The objects shown are:

* Main controller: buffer controller for the subsampled-data buffer, which holds the output of JPEG decompression proper. This controller's primary task is to feed the postprocessing procedure. Some upsampling algorithms may require context rows above and below the current row group; when this is true, the main controller is responsible for managing its buffer so as to make context rows available. In the current design, the main buffer is always a strip buffer; a full-image buffer is never required.

* Coefficient controller: buffer controller for the DCT-coefficient data. This controller handles MCU disassembly, including deletion of any dummy DCT blocks at the right or bottom edge. When reading a multiscan JPEG file, this controller is responsible for buffering the full image. (Buffering DCT coefficients, rather than samples, is necessary to support progressive JPEG.) The equivalent of one fully interleaved MCU row of subsampled data is processed per call, even when the source JPEG file is noninterleaved.

* Entropy decoding: Read coded data from the data source module and perform Huffman or arithmetic entropy decoding. Works on one MCU per call. For progressive JPEG decoding, the coefficient controller supplies the prior coefficients of each MCU (initially all zeroes), which the entropy decoder modifies in each scan.

* Dequantization and inverse DCT: like it says. Note that the coefficients buffered by the coefficient controller have NOT been dequantized; we merge dequantization and inverse DCT into a single step for speed reasons. When scaled-down output is asked for, simplified DCT algorithms may be used that emit fewer samples per DCT block, not the full 8x8. Works on one DCT block at a time.
* Postprocessing controller: buffer controller for the color quantization input buffer, when quantization is in use. (Without quantization, this controller just calls the upsampler.) For two-pass quantization, this controller is responsible for buffering the full-image data.

* Upsampling: restores chroma components to full size. (May support more general output rescaling, too. Note that if undersized DCT outputs have been emitted by the DCT module, this module must adjust so that properly sized outputs are created.) Works on one row group at a time. This module also calls the color conversion module, so its top level is effectively a buffer controller for the upsampling->color conversion buffer. However, in all but the highest-quality operating modes, upsampling and color conversion are likely to be merged into a single step.

* Colorspace conversion: convert from JPEG color space to output color space, and change data layout from separate component planes to pixel-interleaved. Works on one pixel row at a time.

* Color quantization: reduce the data to colormapped form, using either an externally specified colormap or an internally generated one. This module is not used for full-color output. Works on one pixel row at a time; may require two passes to generate a color map. Note that the output will always be a single component representing colormap indexes. In the current design, the output values are JSAMPLEs, so an 8-bit compilation cannot quantize to more than 256 colors. This is unlikely to be a problem in practice.

* Color reduction: this module handles color precision reduction, e.g., generating 15-bit color (5 bits/primary) from JPEG's 24-bit output. Not quite clear yet how this should be handled... should we merge it with colorspace conversion???

Note that some high-speed operating modes might condense the entire postprocessing sequence to a single module (upsample, color convert, and quantize in one step).

In addition to the above objects, the decompression library includes these objects:

* Master control: determines the number of passes required, controls overall and per-pass initialization of the other modules. This is subdivided into input and output control: jdinput.c controls only input-side processing, while jdmaster.c handles overall initialization and output-side control.

* Marker reading: decodes JPEG markers (except for RSTn).

* Data source manager: supplies the input JPEG datastream. The source
manager supplied with the library knows how to read from a stdio stream or from a memory buffer; for other behaviors, the surrounding application may provide its own source manager.

* Memory manager: same as for compression library.

* Error handler: same as for compression library.

* Progress monitor: same as for compression library.

As with compression, the data source manager, error handler, and progress monitor are candidates for replacement by a surrounding application.

*** Decompression input and output separation ***

To support efficient incremental display of progressive JPEG files, the decompressor is divided into two sections that can run independently:

1. Data input includes marker parsing, entropy decoding, and input into the coefficient controller's DCT coefficient buffer. Note that this processing is relatively cheap and fast.

2. Data output reads from the DCT coefficient buffer and performs the IDCT and all postprocessing steps.

For a progressive JPEG file, the data input processing is allowed to get arbitrarily far ahead of the data output processing. (This occurs only if the application calls jpeg_consume_input(); otherwise input and output run in lockstep, since the input section is called only when the output section needs more data.) In this way the application can avoid making extra display passes when data is arriving faster than the display pass can run. Furthermore, it is possible to abort an output pass without losing anything, since the coefficient buffer is read-only as far as the output section is concerned. See libjpeg.txt for more detail.

A full-image coefficient array is only created if the JPEG file has multiple scans (or if the application specifies buffered-image mode anyway). When reading a single-scan file, the coefficient controller normally creates only a one-MCU buffer, so input and output processing must run in lockstep in this case. jpeg_consume_input() is effectively a no-op in this situation.

The main impact of dividing the decompressor in this fashion is that we must be very careful with shared variables in the cinfo data structure. Each variable that can change during the course of decompression must be classified as belonging to data input or data output, and each section must look only at its own variables. For example, the data output section may not depend on any of the variables that describe the current scan in the JPEG
file, because these may change as the data input section advances into a new scan.

The progress monitor is (somewhat arbitrarily) defined to treat input of the file as one pass when buffered-image mode is not used, and to ignore data input work completely when buffered-image mode is used. Note that the library has no reliable way to predict the number of passes when dealing with a progressive JPEG file, nor can it predict the number of output passes in buffered-image mode. So the work estimate is inherently bogus anyway.

No comparable division is currently made in the compression library, because there isn't any real need for it.

*** Data formats ***

Arrays of pixel sample values use the following data structure:

```
typedef something JSAMPLE;  // a pixel component value, 0..MAXJSAMPLE
typedef JSAMPLE *JSAMPROW; // ptr to a row of samples
typedef JSAMPROW *JSAMPARRAY; // ptr to a list of rows
typedef JSAMPARRAY *JSAMPIMAGE; // ptr to a list of color-component arrays
```

The basic element type JSAMPLE will typically be one of unsigned char, (signed) char, or short. Short will be used if samples wider than 8 bits are to be supported (this is a compile-time option). Otherwise, unsigned char is used if possible. If the compiler only supports signed chars, then it is necessary to mask off the value when reading. Thus, all reads of JSAMPLE values must be coded as "GETJSAMPLE(value)", where the macro will be defined as "((value) & 0xFF)" on signed-char machines and "((int) (value))" elsewhere.

With these conventions, JSAMPLE values can be assumed to be >= 0. This helps simplify correct rounding during downsampling, etc. The JPEG standard's specification that sample values run from -128..127 is accommodated by subtracting 128 from the sample value in the DCT step. Similarly, during decompression the output of the IDCT step will be immediately shifted back to 0..255. (NB: different values are required when 12-bit samples are in use. The code is written in terms of MAXJSAMPLE and CENTERJSAMPLE, which will be defined as 255 and 128 respectively in an 8-bit implementation, and as 4095 and 2048 in a 12-bit implementation.)

We use a pointer per row, rather than a two-dimensional JSAMPLE array. This choice costs only a small amount of memory and has several benefits:
* Code using the data structure doesn't need to know the allocated width of the rows. This simplifies edge expansion/compression, since we can work in an array that's wider than the logical picture width.
* Indexing doesn't require multiplication; this is a performance win on many machines.
* Arrays with more than 64K total elements can be supported even on machines where malloc() cannot allocate chunks larger than 64K.
* The rows forming a component array may be allocated at different times without extra copying. This trick allows some speedups in smoothing steps that need access to the previous and next rows.

Note that each color component is stored in a separate array; we don't use the traditional layout in which the components of a pixel are stored together. This simplifies coding of modules that work on each component independently, because they don't need to know how many components there are. Furthermore, we can read or write each component to a temporary file independently, which is helpful when dealing with noninterleaved JPEG files.

In general, a specific sample value is accessed by code such as

```
GETJSAMPLE(image[colorcomponent][row][col])
```

where col is measured from the image left edge, but row is measured from the first sample row currently in memory. Either of the first two indexings can be precomputed by copying the relevant pointer.

Since most image-processing applications prefer to work on images in which the components of a pixel are stored together, the data passed to or from the surrounding application uses the traditional convention: a single pixel is represented by N consecutive JSAMPLE values, and an image row is an array of (# of color components)*(image width) JSAMPLEs. One or more rows of data can be represented by a pointer of type JSAMPARRAY in this scheme. This scheme is converted to component-wise storage inside the JPEG library. (Applications that want to skip JPEG preprocessing or postprocessing will have to contend with component-wise storage.)

Arrays of DCT-coefficient values use the following data structure:

```c
typedef short JCOEF;  // a 16-bit signed integer
typedef JCOEF JBLOCK[DCTSIZE2];  // an 8x8 block of coefficients
typedef JBLOCK *JBLOCKROW;  // ptr to one horizontal row of 8x8 blocks
typedef JBLOCKROW *JBLOCKARRAY;  // ptr to a list of such rows
typedef JBLOCKARRAY *JBLOCKIMAGE;  // ptr to a list of color component arrays
```

The underlying type is at least a 16-bit signed integer; while "short" is big enough on all machines of interest, on some machines it is preferable to use "int" for speed reasons, despite the storage cost. Coefficients are grouped into 8x8 blocks (but we always use #defines DCTSIZE and DCTSIZE2 rather than "8" and "64").

The contents of a coefficient block may be in either "natural" or zigzagged order, and may be true values or divided by the quantization coefficients, depending on where the block is in the processing pipeline. In the current
library, coefficient blocks are kept in natural order everywhere; the entropy codecs zigzag or dezigzag the data as it is written or read. The blocks contain quantized coefficients everywhere outside the DCT/IDCT subsystems. (This latter decision may need to be revisited to support variable quantization a la JPEG Part 3.)

Notice that the allocation unit is now a row of 8x8 blocks, corresponding to eight rows of samples. Otherwise the structure is much the same as for samples, and for the same reasons.

On machines where malloc() can't handle a request bigger than 64Kb, this data structure limits us to rows of less than 512 JBLOCKs, or a picture width of 4000+ pixels. This seems an acceptable restriction.

On 80x86 machines, the bottom-level pointer types (JSAMPROW and JBLOCKROW) must be declared as "far" pointers, but the upper levels can be "near" (implying that the pointer lists are allocated in the DS segment). We use a #define symbol FAR, which expands to the "far" keyword when compiling on 80x86 machines and to nothing elsewhere.

*** Suspendable processing ***

In some applications it is desirable to use the JPEG library as an incremental, memory-to-memory filter. In this situation the data source or destination may be a limited-size buffer, and we can't rely on being able to empty or refill the buffer at arbitrary times. Instead the application would like to have control return from the library at buffer overflow/underrun, and then resume compression or decompression at a later time.

This scenario is supported for simple cases. (For anything more complex, we recommend that the application "bite the bullet" and develop real multitasking capability.) The libjpeg.txt file goes into more detail about the usage and limitations of this capability; here we address the implications for library structure.

The essence of the problem is that the entropy codec (coder or decoder) must be prepared to stop at arbitrary times. In turn, the controllers that call the entropy codec must be able to stop before having produced or consumed all the data that they normally would handle in one call. That part is reasonably straightforward: we make the controller call interfaces include "progress counters" which indicate the number of data chunks successfully processed, and we require callers to test the counter rather than just assume all of the data was processed.

Rather than trying to restart at an arbitrary point, the current Huffman codecs are designed to restart at the beginning of the current MCU after a
suspension due to buffer overflow/underrun. At the start of each call, the 
codec's internal state is loaded from permanent storage (in the JPEG object 
structures) into local variables. On successful completion of the MCU, the 
permanent state is updated. (This copying is not very expensive, and may even 
lead to *improved* performance if the local variables can be registerized.) 
If a suspension occurs, the codec simply returns without updating the state, 
thus effectively reverting to the start of the MCU. Note that this implies 
leaving some data unprocessed in the source/destination buffer (ie, the 
compressed partial MCU). The data source/destination module interfaces are 
specified so as to make this possible. This also implies that the data buffer 
must be large enough to hold a worst-case compressed MCU: a couple thousand 
bytes should be enough.

In a successive-approximation AC refinement scan, the progressive Huffman 
decoder has to be able to undo assignments of newly nonzero coefficients if it 
suspends before the MCU is complete, since decoding requires distinguishing 
previously-zero and previously-nonzero coefficients. This is a bit tedious 
but probably won't have much effect on performance. Other variants of Huffman 
decoding need not worry about this, since they will just store the same values 
again if forced to repeat the MCU.

This approach would probably not work for an arithmetic codec, since its 
modifiable state is quite large and couldn't be copied cheaply. Instead it 
would have to suspend and resume exactly at the point of the buffer end.

The JPEG marker reader is designed to cope with suspension at an arbitrary 
point. It does so by backing up to the start of the marker parameter segment, 
so the data buffer must be big enough to hold the largest marker of interest. 
Again, a couple KB should be adequate. (A special "skip" convention is used 
to bypass COM and APPn markers, so these can be larger than the buffer size 
without causing problems; otherwise a 64K buffer would be needed in the worst 
case.)

The JPEG marker writer currently does *not* cope with suspension. 
We feel that this is not necessary; it is much easier simply to require 
the application to ensure there is enough buffer space before starting. (An 
empty 2K buffer is more than sufficient for the header markers; and ensuring 
there are a dozen or two bytes available before calling jpeg_finish_compress() 
will suffice for the trailer.) This would not work for writing multi-scan 
JPEG files, but we simply do not intend to support that capability with 
suspension.

*** Memory manager services ***

The JPEG library's memory manager controls allocation and deallocation of 
memory, and it manages large "virtual" data arrays on machines where the 
operating system does not provide virtual memory. Note that the same
memory manager serves both compression and decompression operations.

In all cases, allocated objects are tied to a particular compression or decompression master record, and they will be released when that master record is destroyed.

The memory manager does not provide explicit deallocation of objects. Instead, objects are created in "pools" of free storage, and a whole pool can be freed at once. This approach helps prevent storage-leak bugs, and it speeds up operations whenever malloc/free are slow (as they often are). The pools can be regarded as lifetime identifiers for objects. Two pools/lifetimes are defined:

* JPOOL_PERMANENT lasts until master record is destroyed
* JPOOL_IMAGE lasts until done with image (JPEG datastream)

Permanent lifetime is used for parameters and tables that should be carried across from one datastream to another; this includes all application-visible parameters. Image lifetime is used for everything else. (A third lifetime, JPOOL_PASS = one processing pass, was originally planned. However it was dropped as not being worthwhile. The actual usage patterns are such that the peak memory usage would be about the same anyway; and having per-pass storage substantially complicates the virtual memory allocation rules --- see below.)

The memory manager deals with three kinds of object:

1. "Small" objects. Typically these require no more than 10K-20K total.
2. "Large" objects. These may require tens to hundreds of K depending on image size. Semantically they behave the same as small objects, but we distinguish them for two reasons:
   * On MS-DOS machines, large objects are referenced by FAR pointers, small objects by NEAR pointers.
   * Pool allocation heuristics may differ for large and small objects.
   Note that individual "large" objects cannot exceed the size allowed by type size_t, which may be 64K or less on some machines.
3. "Virtual" objects. These are large 2-D arrays of JSAMPLEs or JBLOCKs (typically large enough for the entire image being processed). The memory manager provides stripwise access to these arrays. On machines without virtual memory, the rest of the array may be swapped out to a temporary file.

(Note: JSAMPARRAY and JBLOCKARRAY data structures are a combination of large objects for the data proper and small objects for the row pointers. For convenience and speed, the memory manager provides single routines to create these structures. Similarly, virtual arrays include a small control block and a JSAMPARRAY or JBLOCKARRAY working buffer, all created with one call.)

In the present implementation, virtual arrays are only permitted to have image lifespan. (Permanent lifespan would not be reasonable, and pass lifespan is not very useful since a virtual array's raison d'être is to store data for multiple passes through the image.) We also expect that only "small" objects
will be given permanent lifespan, though this restriction is not required by
the memory manager.

In a non-virtual-memory machine, some performance benefit can be gained by
making the in-memory buffers for virtual arrays be as large as possible.
(For small images, the buffers might fit entirely in memory, so blind
swapping would be very wasteful.) The memory manager will adjust the height
of the buffers to fit within a prespecified maximum memory usage. In order
to do this in a reasonably optimal fashion, the manager needs to allocate all
of the virtual arrays at once. Therefore, there isn't a one-step allocation
routine for virtual arrays; instead, there is a "request" routine that simply
allocates the control block, and a "realize" routine (called just once) that
determines space allocation and creates all of the actual buffers. The
realize routine must allow for space occupied by non-virtual large objects.
(We don't bother to factor in the space needed for small objects, on the
grounds that it isn't worth the trouble.)

To support all this, we establish the following protocol for doing business
with the memory manager:
1. Modules must request virtual arrays (which may have only image lifespan)
during the initial setup phase, i.e., in their jinit_xxx routines.
2. All "large" objects (including JSAMPARRAYs and JBLOCKARRAYs) must also be
allocated during initial setup.
3. realize_virt_arrays will be called at the completion of initial setup.

The above conventions ensure that sufficient information is available
for it to choose a good size for virtual array buffers.
Small objects of any lifespan may be allocated at any time. We expect that
the total space used for small objects will be small enough to be negligible
in the realize_virt_arrays computation.

In a virtual-memory machine, we simply pretend that the available space is
infinite, thus causing realize_virt_arrays to decide that it can allocate all
the virtual arrays as full-size in-memory buffers. The overhead of the
virtual-array access protocol is very small when no swapping occurs.

A virtual array can be specified to be "pre-zeroed"; when this flag is set,
ever-yet-written sections of the array are set to zero before being made
available to the caller. If this flag is not set, never-written sections
of the array contain garbage. (This feature exists primarily because the
equivalent logic would otherwise be needed in jdcoeffct.c for progressive
JPEG mode; we may as well make it available for possible other uses.)

The first write pass on a virtual array is required to occur in top-to-bottom
order; read passes, as well as any write passes after the first one, may
access the array in any order. This restriction exists partly to simplify
the virtual array control logic, and partly because some file systems may not
support seeking beyond the current end-of-file in a temporary file. The main
implication of this restriction is that rearrangement of rows (such as
converting top-to-bottom data order to bottom-to-top) must be handled while reading data out of the virtual array, not while putting it in.

*** Memory manager internal structure ***

To isolate system dependencies as much as possible, we have broken the memory manager into two parts. There is a reasonably system-independent “front end” (jmemmgr.c) and a “back end” that contains only the code likely to change across systems. All of the memory management methods outlined above are implemented by the front end. The back end provides the following routines for use by the front end (none of these routines are known to the rest of the JPEG code):

- jpeg_mem_init, jpeg_mem_term - system-dependent initialization/shutdown
- jpeg_get_small, jpeg_free_small - interface to malloc and free library routines (or their equivalents)
- jpeg_get_large, jpeg_free_large - interface to FAR malloc/free in MSDOS machines; else usually the same as jpeg_get_small/jpeg_free_small
- jpeg_mem_available - estimate available memory
- jpeg_open_backing_store - create a backing-store object
- read_backing_store, manipulate a backing-store object
- write_backing_store,
- close_backing_store

On some systems there will be more than one type of backing-store object (specifically, in MS-DOS a backing store file might be an area of extended memory as well as a disk file). jpeg_open_backing_store is responsible for choosing how to implement a given object. The read/write/close routines are method pointers in the structure that describes a given object; this lets them be different for different object types.

It may be necessary to ensure that backing store objects are explicitly released upon abnormal program termination. For example, MS-DOS won’t free extended memory by itself. To support this, we will expect the main program or surrounding application to arrange to call self_destruct (typically via jpeg_destroy) upon abnormal termination. This may require a SIGINT signal handler or equivalent. We don’t want to have the back end module install its own signal handler, because that would pre-empt the surrounding application’s ability to control signal handling.

The IJG distribution includes several memory manager back end implementations.
Usually the same back end should be suitable for all applications on a given system, but it is possible for an application to supply its own back end at need.

*** Implications of DNL marker ***

Some JPEG files may use a DNL marker to postpone definition of the image height (this would be useful for a fax-like scanner's output, for instance). In these files the SOF marker claims the image height is 0, and you only find out the true image height at the end of the first scan.

We could read these files as follows:
1. Upon seeing zero image height, replace it by 65535 (the maximum allowed).
2. When the DNL is found, update the image height in the global image descriptor.
This implies that control modules must avoid making copies of the image height, and must re-test for termination after each MCU row. This would be easy enough to do.

In cases where image-size data structures are allocated, this approach will result in very inefficient use of virtual memory or much-larger-than-necessary temporary files. This seems acceptable for something that probably won't be a mainstream usage. People might have to forgo use of memory-hogging options (such as two-pass color quantization or noninterleaved JPEG files) if they want efficient conversion of such files. (One could improve efficiency by demanding a user-supplied upper bound for the height, less than 65536; in most cases it could be much less.)

The standard also permits the SOF marker to overestimate the image height, with a DNL to give the true, smaller height at the end of the first scan. This would solve the space problems if the overestimate wasn't too great. However, it implies that you don't even know whether DNL will be used.

This leads to a couple of very serious objections:
1. Testing for a DNL marker must occur in the inner loop of the decompressor's Huffman decoder; this implies a speed penalty whether the feature is used or not.
2. There is no way to hide the last-minute change in image height from an application using the decoder. Thus *every* application using the IJG library would suffer a complexity penalty whether it cared about DNL or not.

We currently do not support DNL because of these problems.

A different approach is to insist that DNL-using files be preprocessed by a separate program that reads ahead to the DNL, then goes back and fixes the SOF marker. This is a much simpler solution and is probably far more efficient. Even if one wants piped input, buffering the first scan of the JPEG file needs
a lot smaller temp file than is implied by the maximum-height method. For this approach we’d simply treat DNL as a no-op in the decompressor (at most, check that it matches the SOF image height).

We will not worry about making the compressor capable of outputting DNL. Something similar to the first scheme above could be applied if anyone ever wants to make that work.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/structure.txt
No license file was found, but licenses were detected in source scan.

/ *
* rdbmp.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2010 by Guido Vollbeding.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains routines to read input images in Microsoft "BMP" format (MS Windows 3.x, OS/2 1.x, and OS/2 2.x flavors).
* Currently, only 8-bit and 24-bit images are supported, not 1-bit or 4-bit (feeding such low-depth images into JPEG would be silly anyway).
* Also, we don't support RLE-compressed files.
* 
* These routines may need modification for non-Unix environments or specialized applications. As they stand, they assume input from an ordinary stdio stream. They further assume that reading begins at the start of the file; start_input may need work if the user interface has already read some data (e.g., to determine that the file is indeed BMP format).
* 
* This code contributed by James Arthur Boucher.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdbmp.c
No license file was found, but licenses were detected in source scan.

/ *
* jdcoext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* This file contains output colorspace conversion routines.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdcolext.c
No license file was found, but licenses were detected in source scan.

/*
 * jcprepct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains the compression preprocessing controller.
 * This controller manages the color conversion, downsampling,
 * and edge expansion steps.
 * Most of the complexity here is associated with buffering input rows
 * as required by the downsampler. See the comments at the head of
 * jcsample.c for the downsampler's needs.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcprepct.c
No license file was found, but licenses were detected in source scan.

/*
 * rdcolmap.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file implements djpeg's "-map file" switch. It reads a source image
 * and constructs a colormap to be supplied to the JPEG decompressor.
 * Currently, these file formats are supported for the map file:
 * GIF: the contents of the GIF's global colormap are used.
 * PPM (either text or raw flavor): the entire file is read and
 * each unique pixel value is entered in the map.
* Note that reading a large PPM file will be horrendously slow.
* Typically, a PPM-format map file should contain just one pixel
* of each desired color. Such a file can be extracted from an
* ordinary image PPM file with ppmtomap(1).
*
* Rescaling a PPM that has a maxval unequal to MAXJSAMPLE is not
* currently implemented.
*/
/* Portions of this code are based on the PBMPPLUS library, which is:
**
** Copyright (C) 1988 by Jef Poskanzer.
**
** Permission to use, copy, modify, and distribute this software and its
** documentation for any purpose and without fee is hereby granted, provided
** that the above copyright notice appear in all copies and that both that
** copyright notice and this permission notice appear in supporting
** documentation. This software is provided "as is" without express or
** implied warranty.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/rdcolmap.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctint.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modification developed 2002-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
 * The primary algorithm described there uses 11 multiplies and 29 adds.
 * We use their alternate method with 12 multiplies and 32 adds.
* The advantage of this method is that no data path contains more than one * multiplication; this allows a very simple and accurate implementation in * scaled fixed-point arithmetic, with a minimal number of shifts.
*
* We also provide IDCT routines with various output sample block sizes for * direct resolution reduction or enlargement without additional resampling: *
  * NxN (N=1...16) pixels for one 8x8 input DCT block.
*
  * For N<8 we simply take the corresponding low-frequency coefficients of *
    the 8x8 input DCT block and apply an NxN point IDCT on the sub-block *
    to yield the downscaled outputs.
  * This can be seen as direct low-pass downsampling from the DCT domain *
    point of view rather than the usual spatial domain point of view, *
  * yielding significant computational savings and results at least *
    as good as common bilinear (averaging) spatial down sampling.
  *
  * For N>8 we apply a partial NxN IDCT on the 8 input coefficients as *
    lower frequencies and higher frequencies assumed to be zero.
  * It turns out that the computational effort is similar to the 8x8 IDCT *
    regarding the output size.
  * Furthermore, the scaling and descaling is the same for all IDCT sizes.
  *
  * CAUTION: We rely on the FIX() macro except for the N=1,2,4,8 cases *
    since there would be too many additional constants to pre-calculate.
* /

Found in path(s):
/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/jidctint.c
No license file was found, but licenses were detected in source scan.

/ *
  * rdswitch.c
  *
  * This file was part of the Independent JPEG Group's software:
  * Copyright (C) 1991-1996, Thomas G. Lane.
  * Modifications:
  * Copyright (C) 2010, D. R. Commander.
  * For conditions of distribution and use, see the accompanying README file.
  *
  * This file contains routines to process some of cjpeg's more complicated *
  * command-line switches. Switches processed here are:
  * -qtables fileRead quantization tables from text file
  * -scans fileRead scan script from text file
  * -quality N[N,...]Set quality ratings
  * -qslots N[N,...]Set component quantization table selectors
  * -sample HxV[,HxV,...]Set component sampling factors
  */
Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdswitch.c
No license file was found, but licenses were detected in source scan.

/*
 * cjpeg.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a command-line user interface for the JPEG compressor.
 * It should work on any system with Unix- or MS-DOS-style command lines.
 *
 * Two different command line styles are permitted, depending on the
 * compile-time switch TWO_FILE_COMMANDLINE:
 * cjpeg [options] inputfile outputfile
 * cjpeg [options] [inputfile]
 * In the second style, output is always to standard output, which you'd
 * normally redirect to a file or pipe to some other program. Input is
 * either from a named file or from standard input (typically redirected).
 * The second style is convenient on Unix but is unhelpful on systems that
 * don't support pipes. Also, you MUST use the first style if your system
 * doesn't do binary I/O to stdin/stdout.
 * To simplify script writing, the "-outfile" switch is provided. The syntax
 * cjpeg [options] -outfile outputfile inputfile
 * works regardless of which command line style is used.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YSomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/cjpeg.c
No license file was found, but licenses were detected in source scan.

/*
 * jdcoeft.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
* This file contains the coefficient buffer controller for decompression.
* This controller is the top level of the JPEG decompressor proper.
* The coefficient buffer lies between entropy decoding and inverse-DCT steps.
*
* In buffered-image mode, this controller is the interface between
* input-oriented processing and output-oriented processing.
* Also, the input side (only) is used when reading a file for transcoding.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdcoefct.c

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

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* Permission is granted to anyone to use this software for any purpose,
* 1. The origin of this software must not be misrepresented; you must not
* 2. Altered source versions must be plainly marked as such, and must not be
* 3. This notice may not be removed or altered from any source distribution.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd_arm_neon.S

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

/*
* jerror.h
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file defines the error and message codes for the JPEG library.
* Edit this file to add new codes, or to translate the message strings to
* some other language.
* A set of error-reporting macros are defined too. Some applications using
* the JPEG library may wish to include this file to get the error codes
* and/or the macros.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jerror.h

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

%ifarch x86_64
%define __lib lib64
Summary: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs

Name: @PACKAGE_NAME@
Version: @VERSION@
Vendor: The libjpeg-turbo Project
URL: http://www.libjpeg-turbo.org
Group: System Environment/Libraries

#-->Source0: http://prdownloads.sourceforge.net/libjpeg-turbo/libjpeg-turbo-%{version}.tar.gz
Release: @BUILD@
License: BSD-style
BuildRoot: %{_blddir}/%{name}-buildroot-%{version}-%{release}
Prereq: /sbin/ldconfig
%ifarch x86_64
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so()(64bit)
%else
Provides: %{name} = %{version}-%{release}, turbojpeg = 2.00, libturbojpeg.so
%endif
Obsoletes: turbojpeg

%description
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

#-->%prep
#-->%setup -q
#-->%build
#-->./configure libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
JPEG_LIB_VERSION=@JPEG_LIB_VERSION@ SO_MAJOR_VERSION=@SO_MAJOR_VERSION@
SO_MINOR_VERSION=@SO_MINOR_VERSION@ --with-pic @RPM_CONFIG_ARGS@
#-->make DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man

%install

rm -rf $RPM_BUILD_ROOT
make install DESTDIR=$RPM_BUILD_ROOT libdir=/opt/%{name}/%{__lib} mandir=/opt/%{name}/man
docdir=/opt/%{name}/doc docexampledir=/opt/%{name}/doc
rm -f $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/*.la
mkdir -p $RPM_BUILD_ROOT/usr/%{__lib}
mv $RPM_BUILD_ROOT/opt/%{name}/%{__lib}/libturbojpeg.* $RPM_BUILD_ROOT/usr/%{__lib}

/sbin/ldconfig -n $RPM_BUILD_ROOT
ln -s /usr/include/turbojpeg.h $RPM_BUILD_ROOT/usr/include
ln -s /usr/%{__lib}/libturbojpeg.a $RPM_BUILD_ROOT/%{__lib}/
mkdir -p $RPM_BUILD_ROOT%{_defaultdocdir}
mv $RPM_BUILD_ROOT/opt/%{name}/doc $RPM_BUILD_ROOT%{_defaultdocdir}/%{name}-%{version}

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig
%clean
rm -rf $RPM_BUILD_ROOT
%files
%defattr(-,root,root)
%dir %{_defaultdocdir}/%{name}-%{version}
%doc %{_defaultdocdir}/%{name}-%{version}/*
%dir /opt/%{name}
/opt/%{name}/bin/cjpeg
/opt/%{name}/bin/djpeg
/opt/%{name}/bin/jpegtran
/opt/%{name}/bin/tjbench
/opt/%{name}/bin/rdjpgcom
/opt/%{name}/bin/wrjpgcom
%dir /opt/%{name}/%{__lib}
%ifarch x86_64
%else
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@.@SO_AGE@.@SO_MINOR_VERSION@
/endif
/opt/%{name}/%{__lib}/libjpeg.so.@SO_MAJOR_VERSION@
/opt/%{name}/%{__lib}/libjpeg.so
/opt/%{name}/%{__lib}/libjpeg.a
/opt/%{name}/%{__lib}/libturbojpeg.a
/usr/%{__lib}/libturbojpeg.so.0.0.0
/usr/%{__lib}/libturbojpeg.so
/usr/%{__lib}/libturbojpeg.a
/usr/include/turbojpeg.h
%dir /opt/%{name}/include
/opt/%{name}/include/jconfig.h
/opt/%{name}/include/jerror.h
/opt/%{name}/include/jmorecfg.h
/opt/%{name}/include/jpeglib.h
/opt/%{name}/include/turbojpeg.h
%dir /opt/%{name}/man
%dir /opt/%{name}/man/man1
/opt/%{name}/man/man1/cjpeg.1*
/opt/%{name}/man/man1/djpeg.1*
/opt/%{name}/man/man1/jpegtran.1*
/opt/%{name}/man/man1/rdjpgcom.1*
/opt/%{name}/man/man1/wrjpgcom.1*
@JAVA_RPM_CONTENTS_1@
@JAVA_RPM_CONTENTS_2@

%changelog

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/release/libjpeg-turbo.spec.in

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

; jsimdext.inc - common declarations
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
; Copyright 2010 D. R. Commander
;
; Based on
; x86 SIMD extension for IJG JPEG library - version 1.02
;
; Copyright (C) 1999-2006, MIYASAKA Masaru.
;
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; warranty. In no event will the authors be held liable for any damages
; arising from the use of this software.
;
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freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not
claim that you wrote the original software. If you use this software
in a product, an acknowledgment in the product documentation would be
appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

: [TAB8]

; System-dependent configurations

%ifdef WIN32; ----(nasm -fwin32 -DWIN32 ...)--------
; * Microsoft Visual C++
; * MinGW (Minimalist GNU for Windows)
; * CygWin
; * LCC-Win32

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .rdata align=16 public use32 class=CONST
%endif

%endif WIN32; ----(nasm -fwin64 -DWIN64 ...)--------
; * Microsoft Visual C++

; -- segment definition --
;
%ifdef __YASM_VER__
%define SEG_TEXT .text align=16
%define SEG_CONST .rdata align=16
%else
%define SEG_TEXT .text align=16 public use64 class=CODE
%define SEG_CONST .rdata align=16 public use64 class=CONST
%endif
%define EXTN(name) name			; foo() -> foo

%elifdef OBJ32; ----(nasm -fobj -DOBJ32 ...)--------
; * Borland C++ (Win32)
%define SEG_TEXT .text align=16 public use32 class=CODE
%define SEG_CONST .data align=16 public use32 class=DATA

%elifdef ELF; -----(nasm -felf[64] -DELF ...)----------
  ; Linux
  ; * BSD family Unix using elf format
  ; * Unix System V, including Solaris x86, UnixWare and SCO Unix

  ; mark stack as non-executable
  section .note.GNU-stack noalloc noexec nowrite progbits

  ; -- segment definition --
  
  ;
  %ifdef __x86_64__
  %define SEG_TEXT .text progbits align=16
  %define SEG_CONST .rodata progbits align=16
  %else
  %define SEG_TEXT .text progbits alloc exec nowrite align=16
  %define SEG_CONST .rodata progbits alloc noexec nowrite align=16
  %endif

  ; To make the code position-independent, append -DPIC to the commandline
  
  %define GOT_SYMBOL _GLOBAL_OFFSET_TABLE_; ELF supports PIC
  %define EXTN(name) name		 ; foo() -> foo

%elifdef AOUT; -----(nasm -faoutb/aout -DAOUT ...)----
  ; Older Linux using a.out format (nasm -f aout -DAOUT ...)
  ; * BSD family Unix using a.out format (nasm -f aoutb -DAOUT ...)

  ; -- segment definition --
  
  ;
  %define SEG_TEXT .text
  %define SEG_CONST .data

  ; To make the code position-independent, append -DPIC to the commandline
  
  %define GOT_SYMBOL __GLOBAL_OFFSET_TABLE__; BSD-style a.out supports PIC

%elifdef MACHO; -----(nasm -fmacho -DMACHO ...)--------
  ; * NeXTstep/OpenStep/Rhapsody/Darwin/MacOS X (Mach-O format)

  ; -- segment definition --
  
  %define SEG_TEXT .text ;align=16; nasm doesn't accept align=16. why?
%define SEG_CONST   .rodata align=16

; The generation of position-independent code (PIC) is the default on Darwin.
;
%define PIC
%define GOT_SYMBOL _MACHO_PIC_; Mach-O style code-relative addressing

%else; ----(Other case)----------------------

; -- segment definition --
;
%define SEG_TEXT   .text
%define SEG_CONST   .data

%endif; -----------------------------------------------

; ==========================================================================
; --------------------------------------------------------------------------
;  Common types
;
%ifdef __x86_64__
%define POINTER                 qword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_QWORD    ; sizeof(POINTER)
%define POINTER_BIT             QWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%else
%define POINTER                 dword           ; general pointer type
%define SIZEOF_POINTER          SIZEOF_DWORD    ; sizeof(POINTER)
%define POINTER_BIT             DWORD_BIT       ; sizeof(POINTER)*BYTE_BIT
%endif

%define INT                     dword           ; signed integer type
%define SIZEOF_INT              SIZEOF_DWORD    ; sizeof(INT)
%define INT_BIT                 DWORD_BIT       ; sizeof(INT)*BYTE_BIT

%define FP32                    dword           ; IEEE754 single
%define SIZEOF_FP32             SIZEOF_DWORD    ; sizeof(FP32)
%define FP32_BIT                DWORD_BIT       ; sizeof(FP32)*BYTE_BIT

%define MMWORD                  qword           ; int64  (MMX register)
%define SIZEOF_MMWORD           SIZEOF_QWORD    ; sizeof(MMWORD)
%define MMWORD_BIT              QWORD_BIT       ; sizeof(MMWORD)*BYTE_BIT

; NASM is buggy and doesn't properly handle operand sizes for SSE
; instructions, so for now we have to define XMMWORD as blank.
%define XMMWORD                                 ; int128 (SSE register)
%define SIZEOF_XMMWORD           SIZEOF_OWORD    ; sizeof(XMMWORD)
%define XMMWORD_BIT              OWORD_BIT       ; sizeof(XMMWORD)*BYTE_BIT
; Similar hacks for when we load a dword or MMWORD into an xmm# register
%define XMM_DWORD
%define XMM_MMWORD

%define SIZEOF_BYTE 1 ; sizeof(BYTE)
%define SIZEOF_WORD 2 ; sizeof(WORD)
%define SIZEOF_DWORD 4 ; sizeof(DWORD)
%define SIZEOF_QWORD 8 ; sizeof(QWORD)
%define SIZEOF_OWORD 16 ; sizeof(OWORD)

%define BYTE_BIT 8 ; CHAR_BIT in C
%define WORD_BIT 16 ; sizeof(WORD)*BYTE_BIT
%define DWORD_BIT 32 ; sizeof(DWORD)*BYTE_BIT
%define QWORD_BIT 64 ; sizeof(QWORD)*BYTE_BIT
%define OWORD_BIT 128 ; sizeof(OWORD)*BYTE_BIT

; ---------------------------------------------------------------------------
; External Symbol Name
;
%ifndef EXTN
%define EXTN(name) _ %+ name		; foo() -> _foo
%endif

; ---------------------------------------------------------------------------
; Macros for position-independent code (PIC) support
;
%ifndef GOT_SYMBOL
%undef PIC
%endif

%ifdef PIC ; -------------------------------------------
%ifidn GOT_SYMBOL,_MACHO_PIC_ ; -------------------
; At present, nasm doesn't seem to support PIC generation for Mach-O.
; The PIC support code below is a little tricky.

SECTION SEG CONST
const_base:

%define GOTOFF(got,sym) (got) + (sym) - const_base

%imacro get_GOT1
; NOTE: this macro destroys ecx resister.
call%%geteip
add ecx, byte (%%ref - $)
jmp short %%adjust

; ---------------------------------------------------------------------------
%geteip:
move cx, POINTER [esp]
ret
%adjust:
pus ebp
xor ebp, ebp ; ebp = 0
%ifid ni %1, ebx ; (%1 == ebx)
; db 0x8D,0x9C + jmp near const_base =
; lea ebx, [ecx+ebp*8+(const_base-%ref)] ; 8D,9C,E9,(offset32)
db 0x8D,0x9C; 8D,9C
jmpne near const_base; E9,(const_base-%ref)
%ref:
%else ; (%1 ! = ebx)
; db 0x8D,0x8C + jmp near const_base =
; lea ecx, [ecx+ebp*8+(const_base-%ref)] ; 8D,8C,E9,(offset32)
db 0x8D,0x8C; 8D,8C
jmpne near const_base; E9,(const_base-%ref)
%ref:mov %1, ecx
%endif ; (%1 == ebx)
popeb p
%endmacro

%else ; GOT_SYMBOL != _MACHO_PIC_ ---------------
%define GOTOFF(got,sym) (got) + (sym) wrt ..gotoff
%imacro get_GOT1
extern GOT_SYMBOL
call %geteip
add %1, GOT_SYMBOL + $$ - $ wrt ..gotpc
jmpshort %%done
%geteip:
move cx, POINTER [esp]
ret
%done:
%endmacro

%endif ; GOT_SYMBOL == _MACHO_PIC_ ---------------

%imacro pushpic1.nolist
push %1
%endmacro
%imacro poppic1.nolist
pop %1
%endmacro
%imacro movpic2.nolist
mov %1,%2
%endmacro
%define GOTOFF(got,sym) (sym)
%imacro get_GOT1.nolist
%endmacro
%imacro pushpic1.nolist
%endmacro
%imacro poppic1.nolist
%endmacro
%imacro movpic2.nolist
%endmacro

%endif; PIC -----------------------------------------

; Align the next instruction on {2,4,8,16,...}-byte boundary.
; ".balign n,,m" in GNU as

%define MSKLE(x,y)  (~(((y) & 0xFFFF) - ((x) & 0xFFFF)) >> 16)
%define FILLB(b,n)  (($$-(b)) & ((n)-1))
%imacro alignx 1-2.nolist 0xFFFF
%%bs:		times MSKLE(FILLB(%%bs,%1),%2) & MSKLE(16,FILLB($,%1)) & FILLB($,%1) \
		db 0x90                               ; nop
		times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/9 \
		db 0x8D,0x9C,0x23,0x00,0x00,0x00,0x00 ; lea ebx,[ebx+0x00000000]
		times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/7 \
		db 0x8D,0xAC,0x25,0x00,0x00,0x00,0x00 ; lea ebp,[ebp+0x00000000]
		times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/6 \
		db 0x8D,0xAD,0x00,0x00 ; lea ebp,[ebp+0x00000000]
		times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/4 \
		db 0x8D,0x6C,0x25,0x00                ; lea ebp,[ebp+0x0]
		times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/3 \
		db 0x8D,0x6D,0x00                     ; lea ebp,[ebp+0x000]
		times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/2 \
		db 0x8B,0xED                          ; mov ebp,ebp
		times MSKLE(FILLB(%%bs,%1),%2) & FILLB($,%1)/1 \
		db 0x90                               ; nop
%endmacro

; Align the next data on {2,4,8,16,...}-byte boundary.
;
%imacro alignz 1.nolist
align %1, db 0; filling zeros
%endmacro
%ifdef __x86_64__

%ifdef WIN64

%imacro collect_args 0
push r12
push r13
push r14
push r15
mov r10, rcx
mov r11, rdx
mov r12, r8
mov r13, r9
mov r14, [rax+48]
mov r15, [rax+56]
push rsi
push rdi
sub rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm6
sub rsp, SIZEOF_XMMWORD
movaps XMMWORD [rsp], xmm7
%endmacro

%imacro uncollect_args 0
movaps xmm7, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
movaps xmm6, XMMWORD [rsp]
add rsp, SIZEOF_XMMWORD
pop rdi
pop rsi
pop r15
pop r14
pop r13
pop r12
%endmacro

%else

%imacro collect_args 0
push r10
push r11
push r12
push r13
push r14
push r15
mov r10, rdi
mov r11, rsi
mov r12, rdx


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/*
 * jfdctflt.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 * This file contains a floating-point implementation of the
 * forward DCT (Discrete Cosine Transform).
 */

* This implementation should be more accurate than either of the integer
* DCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
*
* A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
* on each column. Direct algorithms are also available, but they are
* much more complex and seem not to be any faster when reduced to code.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimdext.inc
No license file was found, but licenses were detected in source scan.

; --------------------------------------------------------------------------
; Defines picked up from the C headers
;
%include "jsimdcfg.inc"

; --------------------------------------------------------------------------
This implementation is based on Arai, Agui, and Nakajima's algorithm for scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in Japanese, but the algorithm is described in the Pennebaker & Mitchell JPEG textbook (see REFERENCES section in file README). The following code is based directly on figure 4-8 in P&M.

While an 8-point DCT cannot be done in less than 11 multiplies, it is possible to arrange the computation so that many of the multiplies are simple scalings of the final outputs. These multiplies can then be folded into the multiplications or divisions by the JPEG quantization table entries. The AA&N method leaves only 5 multiplies and 29 adds to be done in the DCT itself.

The primary disadvantage of this method is that with a fixed-point implementation, accuracy is lost due to imprecise representation of the scaled quantization values. However, that problem does not arise if we use floating point arithmetic.

*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jfdctflt.c

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

/*
 * Copyright (C)2009-2012 D. R. Commander. All Rights Reserved.
 *
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 * modification, are permitted provided that the following conditions are met:
 *
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 * - Redistributions in binary form must reproduce the above copyright notice,
 *   this list of conditions and the following disclaimer in the documentation
 *   and/or other materials provided with the distribution.
 * - Neither the name of the libjpeg-turbo Project nor the names of its
 *   contributors may be used to endorse or promote products derived from this
 *   software without specific prior written permission.
 *
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 * SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS
 * INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN
 * CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
* POSSIBILITY OF SUCH DAMAGE.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/tjunittest.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/turbojpeg.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/turbojpeg.h
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/TJBench.java
No license file was found, but licenses were detected in source scan.

/**
 * jcmainct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the main buffer controller for compression.
 * The main buffer lies between the pre-processor and the JPEG
 * compressor proper; it holds downsampeld data in the JPEG colorspace.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcmainct.c
No license file was found, but licenses were detected in source scan.

/**
 * jdcolor.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2011 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2009, 2011-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains output colorspace conversion routines.
 */

Found in path(s):
/*
 * jddctmgr.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modified 2002-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the inverse-DCT management logic.
 * This code selects a particular IDCT implementation to be used,
 * and it performs related housekeeping chores. No code in this file
 * is executed per IDCT step, only during output pass setup.
 *
 * Note that the IDCT routines are responsible for performing coefficient
 * dequantization as well as the IDCT proper. This module sets up the
 * dequantization multiplier table needed by the IDCT routine.
 */

From c51b66ebcace2adec0cfbe42d25cb418ed0c02a2 Mon Sep 17 00:00:00 2001
From: DRC <information@libjpeg-turbo.org>
Date: Fri, 20 Jul 2018 17:21:36 -0500
Subject: [PATCH] cjpeg: Fix OOB read caused by malformed 8-bit BMP

... in which one or more of the color indices is out of range for the
number of palette entries.

Fix partly borrowed from jpeg-9c. This commit also adopts Guido's
JERR_PPM_OUTOFRANGE enum value in lieu of our project-specific
JERR_PPM_TOOLARGE enum value.

Fixes #258
...
cerror.h  |  5 ++++-
rdbmp.c  |  7 ++++++-
rdppm.c  |  4 ++--
3 files changed, 11 insertions(+), 5 deletions(-)
diff --git a/cderror.h b/cderror.h
index d69b501..46b0f49 100644
--- a/cderror.h
+++ b/cderror.h
@@ -2,7 +2,7 @@
* cderror.h
 *
* Copyright (C) 1994-1997, Thomas G. Lane.
- * Modified 2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
 *
@@ -48,6 +48,7 @@ JMESSAGE(JERR_BMP_COLORSPACE, "BMP output must be grayscale or RGB")
 JMESSAGE(JERR_BMP_COMPRESSED, "Sorry, compressed BMPs not yet supported")
 JMESSAGE(JERR_BMP_EMPTY, "Empty BMP image")
 JMESSAGE(JERR_BMP_NOT, "Not a BMP file - does not start with BM")
+JMESSAGE(JERR_BMP_OUTOFRANGE, "Numeric value out of range in BMP file")
 JMESSAGE(JTRC_BMP, "%ux%u 24-bit BMP image")
 JMESSAGE(JTRC_BMP_MAPPED, "%ux%u 8-bit colormapped BMP image")
 JMESSAGE(JTRC_BMP_OS2, "%ux%u 24-bit OS2 BMP image")
@@ -74,8 +75,8 @@ JMESSAGE(JWRN_GIF_NOMOREDATA, "Ran out of GIF bits")
#ifdef PPM_SUPPORTED
 JMESSAGE(JERR_PPM_COLORSPACE, "PPM output must be grayscale or RGB")
 JMESSAGE(JERR_PPM_NONNUMERIC, "Nonnumeric data in PPM file")
- JMESSAGE(JERR_PPM_TOOLARGE, "Integer value too large in PPM file")
 JMESSAGE(JERR_PPM_NOT, "Not a PPM/PGM file")
+JMESSAGE(JERR_PPM_OUTOFRANGE, "Numeric value out of range in PPM file")
 JMESSAGE(JTRC_PGM, "%ux%u PGM image")
 JMESSAGE(JTRC_PGM_TEXT, "%ux%u text PGM image")
 JMESSAGE(JTRC_PPM, "%ux%u PPM image")

diff --git a/rdbmp.c b/rdbmp.c
index c053074..7a27cab 100644
--- a/rdbmp.c
+++ b/rdbmp.c
@@ -3,7 +3,7 @@
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Modified 2011 by Siarhei Siamashka.
* For conditions of distribution and use, see the accompanying README file.

*/

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int bits_per_pixel; /* remembers 8- or 24-bit format */
+ int cmap_length; /* colormap length */
} bmp_source_struct;

@@ -124,6 +125,7 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
{
    bmp_source_ptr source = (bmp_source_ptr) sinfo;
    register JSAMPARRAY colormap = source->colormap;
+  int cmaplen = source->cmap_length;
    JSAMPARRAY image_ptr;
    register int t;
    register JSAMPROW inptr, outptr;
@@ -140,6 +142,8 @@ get_8bit_row (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
                outptr = source->pub.buffer[0];
                for (col = cinfo->image_width; col > 0; col--) {
                    t = GETJSAMPLE(*inptr++);
+                    if (t >= cmaplen)
+                        ERREXIT(cinfo, JERR_BMP_OUTOFRANGE);
                    outptr++ = colormap[0][t]; /* can omit GETJSAMPLE() safely */
                    outptr++ = colormap[1][t];
                    outptr++ = colormap[2][t];
@@ -399,6 +403,7 @@ start_input_bmp (j_compress_ptr cinfo, cjpeg_source_ptr sinfo)
                source->colormap = (*cinfo->mem->alloc_sarray)
                    ((j_common_ptr) cinfo, JPOOL_IMAGE,
                    (JDIMENSION) biClrUsed, (JDIMENSION) 3);
+                source->cmap_length = (int)biClrUsed;
                /* and read it from the file */
                read_colormap(source, (int) biClrUsed, mapentrysize);
                /* account for size of colormap */
diff --git a/rdppm.c b/rdppm.c
index 5da1646..59da2bb 100644
--- a/rdppm.c
+++ b/rdppm.c
@@ -76,7 +76,7 @@ typedef struct {
    JSAMPROW pixrow; /* FAR pointer to same */
    size_t buffer_width; /* width of I/O buffer */
    JSAMPLE *rescale; /* => maxval-remapping array, or NULL */
-    int maxval;
+    unsigned int maxval;
} ppm_source_struct;

typedef ppm_source_struct * ppm_source_ptr;
@@ -126,7 +126,7 @@ read_pbm_integer (j_compress_ptr cinfo, FILE * infile, int maxval)
} }

if (val > maxval)
-    ERREXIT(cinfo, JERR_PPM_TOOLARGE);

+ ERREXIT(cinfo, JERR_PPM_OUTOFRANGE);

    return val;
  }
--
2.17.2

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo12-CVE-2018-14498.patch
No license file was found, but licenses were detected in source scan.

/*
* jdapistd.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "standard" API routines that are
* used in the normal full-decompression case. They are not used by a
* transcoding-only application. Note that if an application links in
* jpeg_start_decompress, it will end up linking in the entire decompressor.
* We thus must separate this file from jdapimin.c to avoid linking the
* whole decompression library into a transcoder.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LiP8tPYZ/libjpeg-turbo-1.2.90/jdapistd.c
No license file was found, but licenses were detected in source scan.

/*
* jinclude.h
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file exists to provide a single place to fix any problems with
* including the wrong system include files. (Common problems are taken
* care of by the standard jconfig symbols, but on really weird systems
* you may have to edit this file.)
*
* NOTE: this file is NOT intended to be included by applications using the
* JPEG library. Most applications need only include jpeglib.h.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jinclude.h
No license file was found, but licenses were detected in source scan.

/*
 * jerror.c
 *
 * Copyright (C) 1991-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains simple error-reporting and trace-message routines.
 * These are suitable for Unix-like systems and others where writing to
 * stderr is the right thing to do. Many applications will want to replace
 * some or all of these routines.
 *
 * If you define USE_WINDOWS_MESSAGEBOX in jconfig.h or in the makefile,
 * you get a Windows-specific hack to display error messages in a dialog box.
 * It ain't much, but it beats dropping error messages into the bit bucket,
 * which is what happens to output to stderr under most Windows C compilers.
 *
 * These routines are used by both the compression and decompression code.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jerror.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegint.h
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file provides common declarations for the various JPEG modules.
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to read input images in Utah RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume input from
* an ordinary stdio stream. They further assume that reading begins
* at the start of the file; start_input may need work if the
* user interface has already read some data (e.g., to determine that
* the file is indeed RLE format).
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LJP8tPYZ/libjpeg-turbo-1.2.90/rdrle.c
No license file was found, but licenses were detected in source scan.

/*/ 
* jsimd_i386.c
* 
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2009-2011 D. R. Commander
* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
* 
* This file contains the interface between the "normal" portions
* of the library and the SIMD implementations when running on a
* 32-bit x86 architecture.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LJP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd_i386.c
No license file was found, but licenses were detected in source scan.

1.2.90 (1.3 beta1)
==================

[1] Added support for additional scaling factors (3/8, 5/8, 3/4, 7/8, 9/8, 5/4,
11/8, 3/2, 13/8, 7/4, 15/8, and 2) when decompressing. Note that the IDCT will
not be SIMD-accelerated when using any of these new scaling factors.
[2] The TurboJPEG dynamic library is now versioned. It was not strictly necessary to do so, because TurboJPEG uses versioned symbols, and if a function changes in an ABI-incompatible way, that function is renamed and a legacy function is provided to maintain backward compatibility. However, certain Linux distro maintainers will blindly reject any library that is not versioned, so this was an attempt to make them happy.

[3] Extended the TurboJPEG Java API so that it can be used to compress a JPEG image from and decompress a JPEG image to an arbitrary position in a large image buffer.

[4] The tjDecompressToYUV() function now supports the TJFLAG_FASTDCT flag.

[5] The 32-bit supplementary package for amd64 Debian systems now provides symlinks in /usr/lib/i386-linux-gnu for the TurboJPEG libraries in /usr/lib32. This allows those libraries to be used on MultiArch-compatible systems (such as Ubuntu 11 and later) without setting the linker path.

[6] The TurboJPEG Java wrapper should now find the JNI library on Mac systems without having to pass -Djava.library.path=/usr/lib to java.

[7] TJBench has been ported to Java to provide a convenient way of validating the performance of the TurboJPEG Java API. It can be run with 'java -cp turbojpeg.jar TJBench'.

[8] cjpeg can now be used to generate JPEG files with the RGB colorspace (feature ported from jpeg-8d.)

[9] The width and height in the -crop argument passed to jpegtran can now be suffixed with "f" to indicate that, when the upper left corner of the cropping region is automatically moved to the nearest iMCU boundary, the bottom right corner should be moved by the same amount. In other words, this feature causes jpegtran to strictly honor the specified width/height rather than the specified bottom right corner (feature ported from jpeg-8d.)

[10] JPEG files using the RGB colorspace can now be decompressed into grayscale images (feature ported from jpeg-8d.)

[11] Fixed a regression caused by 1.2.1[7] whereby the build would fail with multiple "Mismatch in operand sizes" errors when attempting to build the x86 SIMD code with NASM 0.98.

[12] The in-memory source/destination managers (jpeg_mem_src() and jpeg_mem_dest()) are now included by default when building libjpeg-turbo with libjpeg v6b or v7 emulation, so that programs can take advantage of these functions without requiring the use of the backward-incompatible libjpeg v8 ABI. The "age number" of the libjpeg-turbo library on Un*x systems has been incremented by 1 to reflect this. You can disable this feature with a
configure/CMake switch in order to retain strict API/ABI compatibility with the libjpeg v6b or v7 API/ABI (or with previous versions of libjpeg-turbo.) See README-turbo.txt for more details.

[13] Added ARM v7s architecture to libjpeg.a and librjjpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build applications that leverage the faster CPUs in the iPhone 5 and iPad 4.

1.2.1
=====

[1] Creating or decoding a JPEG file that uses the RGB colorspace should now properly work when the input or output colorspace is one of the libjpeg-turbo colorspace extensions.

[2] When libjpeg-turbo was built without SIMD support and merged (non-fancy) upsampling was used along with an alpha-enabled colorspace during decompression, the unused byte of the decompressed pixels was not being set to 0xFF. This has been fixed. TJUnitTest has also been extended to test for the correct behavior of the colorspace extensions when merged upsampling is used.

[3] Fixed a bug whereby the libjpeg-turbo SSE2 SIMD code would not preserve the upper 64 bits of xmm6 and xmm7 on Win64 platforms, which violated the Win64 calling conventions.

[4] Fixed a regression caused by 1.2.0[6] whereby decompressing corrupt JPEG images (specifically, images in which the component count was erroneously set to a large value) would cause libjpeg-turbo to segfault.

[5] Worked around a severe performance issue with "Bobcat" (AMD Embedded APU) processors. The MASKMOVDQU instruction, which was used by the libjpeg-turbo SSE2 SIMD code, is apparently implemented in microcode on AMD processors, and it is painfully slow on Bobcat processors in particular. Eliminating the use of this instruction improved performance by an order of magnitude on Bobcat processors and by a small amount (typically 5%) on AMD desktop processors.

[6] Added SIMD acceleration for performing 4:2:2 upsampling on NEON-capable ARM platforms. This speeds up the decompression of 4:2:2 JPEGs by 20-25% on such platforms.

[7] Fixed a regression caused by 1.2.0[2] whereby, on Linux/x86 platforms running the 32-bit SSE2 SIMD code in libjpeg-turbo, decompressing a 4:2:0 or 4:2:2 JPEG image into a 32-bit (RGBX, BGRX, etc.) buffer without using fancy upsampling would produce several incorrect columns of pixels at the right-hand side of the output image if each row in the output image was not evenly divisible by 16 bytes.
[8] Fixed an issue whereby attempting to build the SIMD extensions with Xcode 4.3 on OS X platforms would cause NASM to return numerous errors of the form "'%define' expects a macro identifier".

[9] Added flags to the TurboJPEG API that allow the caller to force the use of either the fast or the accurate DCT/IDCT algorithms in the underlying codec.

1.2.0
=====

[1] Fixed build issue with YASM on Unix systems (the libjpeg-turbo build system was not adding the current directory to the assembler include path, so YASM was not able to find jsimdefcfg.inc.)

[2] Fixed out-of-bounds read in SSE2 SIMD code that occurred when decompressing a JPEG image to a bitmap buffer whose size was not a multiple of 16 bytes. This was more of an annoyance than an actual bug, since it did not cause any actual run-time problems, but the issue showed up when running libjpeg-turbo in valgrind. See http://crbug.com/72399 for more information.

[3] Added a compile-time macro (LIBJPEG_TURBO_VERSION) that can be used to check the version of libjpeg-turbo against which an application was compiled.

[4] Added new RGBA/BGRA/ABGR/ARGB colorspace extension constants (libjpeg API) and pixel formats (TurboJPEG API), which allow applications to specify that, when decompressing to a 4-component RGB buffer, the unused byte should be set to 0xFF so that it can be interpreted as an opaque alpha channel.

[5] Fixed regression issue whereby DevIL failed to build against libjpeg-turbo because libjpeg-turbo's distributed version of jconfig.h contained an INLINE macro, which conflicted with a similar macro in DevIL. This macro is used only internally when building libjpeg-turbo, so it was moved into config.h.

[6] libjpeg-turbo will now correctly decompress erroneous CMYK/YCCK JPEGs whose K component is assigned a component ID of 1 instead of 4. Although these files are in violation of the spec, other JPEG implementations handle them correctly.

[7] Added ARM v6 and ARM v7 architectures to libjpeg.a and libturbojpeg.a in the official libjpeg-turbo binary package for OS X, so that those libraries can be used to build both OS X and iOS applications.

1.1.90 (1.2 beta1)
================

[1] Added a Java wrapper for the TurboJPEG API. See java/README for more
[2] The TurboJPEG API can now be used to scale down images during decompression.

[3] Added SIMD routines for RGB-to-grayscale color conversion, which significantly improves the performance of grayscale JPEG compression from an RGB source image.

[4] Improved the performance of the C color conversion routines, which are used on platforms for which SIMD acceleration is not available.

[5] Added a function to the TurboJPEG API that performs lossless transforms. This function is implemented using the same back end as jpegtran, but it performs transcoding entirely in memory and allows multiple transforms and/or crop operations to be batched together, so the source coefficients only need to be read once. This is useful when generating image tiles from a single source JPEG.

[6] Added tests for the new TurboJPEG scaled decompression and lossless transform features to tjbench (the TurboJPEG benchmark, formerly called "jpgtest").

[7] Added support for 4:4:0 (transposed 4:2:2) subsampling in TurboJPEG, which was necessary in order for it to read 4:2:2 JPEG files that had been losslessly transposed or rotated 90 degrees.

[8] All legacy VirtualGL code has been re-factored, and this has allowed libjpeg-turbo, in its entirety, to be re-licensed under a BSD-style license.

[9] libjpeg-turbo can now be built with YASM.

[10] Added SIMD acceleration for ARM Linux and iOS platforms that support NEON instructions.

[11] Refactored the TurboJPEG C API and documented it using Doxygen. The TurboJPEG 1.2 API uses pixel formats to define the size and component order of the uncompressed source/destination images, and it includes a more efficient version of TJBUFSIZE() that computes a worst-case JPEG size based on the level of chrominance subsampling. The refactored implementation of the TurboJPEG API now uses the libjpeg memory source and destination managers, which allows the TurboJPEG compressor to grow the JPEG buffer as necessary.

[12] Eliminated errors in the output of jpegtran on Windows that occurred when the application was invoked using I/O redirection (jpegtran <input.jpg >output.jpg).

[13] The inclusion of libjpeg v7 and v8 emulation as well as arithmetic coding
support in libjpeg-turbo v1.1.0 introduced several new error constants in jerror.h, and these were mistakenly enabled for all emulation modes, causing the error enum in libjpeg-turbo to sometimes have different values than the same enum in libjpeg. This represents an ABI incompatibility, and it caused problems with rare applications that took specific action based on a particular error value. The fix was to include the new error constants conditionally based on whether libjpeg v7 or v8 emulation was enabled.

[14] Fixed an issue whereby Windows applications that used libjpeg-turbo would fail to compile if the Windows system headers were included before jpeglib.h. This issue was caused by a conflict in the definition of the INT32 type.

[15] Fixed 32-bit supplementary package for amd64 Debian systems, which was broken by enhancements to the packaging system in 1.1.

[16] When decompressing a JPEG image using an output colorspace of JCS_EXT_RGBX, JCS_EXT_BGRX, JCS_EXT_XBGR, or JCS_EXT_XRGB, libjpeg-turbo will now set the unused byte to 0xFF, which allows applications to interpret that byte as an alpha channel (0xFF = opaque).

1.1.1
===== 

[1] Fixed a 1-pixel error in row 0, column 21 of the luminance plane generated by tjEncodeYUV().

[2] libjpeg-turbo's accelerated Huffman decoder previously ignored unexpected markers found in the middle of the JPEG data stream during decompression. It will now hand off decoding of a particular block to the unaccelerated Huffman decoder if an unexpected marker is found, so that the unaccelerated Huffman decoder can generate an appropriate warning.

[3] Older versions of MinGW64 prefixed symbol names with underscores by default, which differed from the behavior of 64-bit Visual C++. MinGW64 1.0 has adopted the behavior of 64-bit Visual C++ as the default, so to accommodate this, the libjpeg-turbo SIMD function names are no longer prefixed with an underscore when building with MinGW64. This means that, when building libjpeg-turbo with older versions of MinGW64, you will now have to add -fno-leading-underscore to the CFLAGS.

[4] Fixed a regression bug in the NSIS script that caused the Windows installer build to fail when using the Visual Studio IDE.

[5] Fixed a bug in jpeg_read_coefficients() whereby it would not initialize cinfo->image_width and cinfo->image_height if libjpeg v7 or v8 emulation was enabled. This specifically caused the jpegoptim program to fail if it was linked against a version of libjpeg-turbo that was built with libjpeg v7 or v8.
emulation.


[7] Eliminated errors in the output of cjpeg on Windows that occurred when the application was invoked using I/O redirection (cjpeg <inputfile >output.jpg).

1.1.0
=====

[1] The algorithm used by the SIMD quantization function cannot produce correct results when the JPEG quality is >= 98 and the fast integer forward DCT is used. Thus, the non-SIMD quantization function is now used for those cases, and libjpeg-turbo should now produce identical output to libjpeg v6b in all cases.

[2] Despite the above, the fast integer forward DCT still degrades somewhat for JPEG qualities greater than 95, so the TurboJPEG wrapper will now automatically use the slow integer forward DCT when generating JPEG images of quality 96 or greater. This reduces compression performance by as much as 15% for these high-quality images but is necessary to ensure that the images are perceptually lossless. It also ensures that the library can avoid the performance pitfall created by [1].

[3] Ported jpgtest.cxx to pure C to avoid the need for a C++ compiler.


[5] The Windows distribution packages now include the libjpeg run-time programs (cjpeg, etc.)

[6] All packages now include jpgtest.


[8] Added two new TurboJPEG API functions, tjEncodeYUV() and tjDecompressToYUV(), to replace the somewhat hackish TJ_YUV flag.

1.0.90 (1.1 beta1)
=================

[1] Added emulation of the libjpeg v7 and v8 APIs and ABIs. See README-turbo.txt for more details. This feature was sponsored by CamTrace SAS.

[3] Grayscale bitmaps can now be compressed from/decompressed to using the TurboJPEG API.

[4] jptest can now be used to test decompression performance with existing JPEG images.

[5] If the default install prefix (/opt/libjpeg-turbo) is used, then 'make install' now creates /opt/libjpeg-turbo/lib32 and /opt/libjpeg-turbo/lib64 sym links to duplicate the behavior of the binary packages.

[6] All symbols in the libjpeg-turbo dynamic library are now versioned, even when the library is built with libjpeg v6b emulation.

[7] Added arithmetic encoding and decoding support (can be disabled with configure or CMake options)

[8] Added a TJ_YUV flag to the TurboJPEG API, which causes both the compressor and decompressor to output planar YUV images.

[9] Added an extended version of tjDecompressHeader() to the TurboJPEG API, which allows the caller to determine the type of subsampling used in a JPEG image.

[10] Added further protections against invalid Huffman codes.

1.0.1
=====

[1] The Huffman decoder will now handle erroneous Huffman codes (for instance, from a corrupt JPEG image.) Previously, these would cause libjpeg-turbo to crash under certain circumstances.

[2] Fixed typo in SIMD dispatch routines that was causing 4:2:2 upsampling to be used instead of 4:2:0 when decompressing JPEG images using SSE2 code.

[3] configure script will now automatically determine whether the INCOMPLETE_TYPES_BROKEN macro should be defined.

1.0.0
=====

[1] 2983700: Further FreeBSD build tweaks (no longer necessary to specify --host when configuring on a 64-bit system)
[2] Created symlinks in the Unix/Linux packages so that the TurboJPEG include file can always be found in /opt/libjpeg-turbo/include, the 32-bit static libraries can always be found in /opt/libjpeg-turbo/lib32, and the 64-bit static libraries can always be found in /opt/libjpeg-turbo/lib64.

[3] The Unix/Linux distribution packages now include the libjpeg run-time programs (cjpeg, etc.) and man pages.


[6] Include distribution package for Cygwin

[7] No longer necessary to specify --without-simd on non-x86 architectures, and unit tests now work on those architectures.

0.0.93
======

[1] 2982659, Fixed x86-64 build on FreeBSD systems

[2] 2988188: Added support for Windows 64-bit systems

0.0.91
======

[1] Added documentation to .deb packages

[2] 2968313: Fixed data corruption issues when decompressing large JPEG images and/or using buffered I/O with the libjpeg-turbo decompressor

0.0.90
======

Initial release

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/ChangeLog.txt
No license file was found, but licenses were detected in source scan.

/*
* jdmrgext.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains code for merged upsampling/color conversion.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiuL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdmrgext.c 
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/ *
* jsimd_none.c
*
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* 
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
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* 
* This file contains stubs for when there is no SIMD support available.
*/

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* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiuL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jsimd_none.c 
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/ *
* jpegtran.c
*
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* 
* This file contains a command-line user interface for JPEG transcoding.
* It is very similar to cjpeg.c, and partly to djpeg.c, but provides
* lossless transcoding between different JPEG file formats. It also
* provides some lossless and sort-of-lossless transformations of JPEG data.
*/
package org.libjpegturbo.turbojpeg;

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

Found in path(s):
*/

/*
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 *
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 * modification, are permitted provided that the following conditions are met:
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 *
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 * ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
 * POSSIBILITY OF SUCH DAMAGE.
 */
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/release/ReadMe.rtf

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/*
 * jpeglib.h
 *
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 * Modified 2002-2009 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2009-2011, 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file defines the application interface for the JPEG library.
 * Most applications using the library need only include this file,
 * and perhaps jerror.h if they want to know the exact error codes.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jpeglib.h
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/*
 * jdsample.c
 *
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 *
 * This file contains upsampling routines.
 *
 * Upsampling input data is counted in "row groups". A row group
 * is defined to be (v_samp_factor * DCT_scaled_size / min_DCT_scaled_size)
 * sample rows of each component. Upsampling will normally produce
 * max_v_samp_factor pixel rows from each row group (but this could vary
 * if the upsampler is applying a scale factor of its own).
 *
 * An excellent reference for image resampling is
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdsample.c
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/*
 * jctrans.c
 *
 * Copyright (C) 1995-1998, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains library routines for transcode compression,
 * that is, writing raw DCT coefficient arrays to an output JPEG file.
 * The routines in jcapimin.c will also be needed by a transcoder.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jctrans.c
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 * POSSIBILITY OF SUCH DAMAGE.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPZy/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJTransformer.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPZy/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCustomFilter.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPZy/libjpeg-turbo-1.2.90/tjutil.h
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPZy/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJScalingFactor.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPZy/libjpeg-turbo-1.2.90/jutil.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPZy/libjpeg-turbo-1.2.90/cstest.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPZy/libjpeg-turbo-1.2.90/bmp.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPZy/libjpeg-turbo-1.2.90/bmp.h
1.2.90/java/org/libjpegturbo/turbojpeg/TJTransform.java
*/

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

/ *
* jdapimin.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains application interface code for the decompression half
* of the JPEG library. These are the "minimum" API routines that may be
* needed in either the normal full-decompression case or the
* transcoding-only case.
*
* Most of the routines intended to be called directly by an application
* are in this file or in jdapistd.c. But also see jcomapi.c for routines
* shared by compression and decompression, and jdtrans.c for the transcoding
* case.
*/

Found in path(s):
*/

/ *
* jmemnobs.c
*
* Copyright (C) 1992-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file provides a really simple implementation of the system-
* dependent portion of the JPEG memory manager. This implementation
* assumes that no backing-store files are needed: all required space
* can be obtained from malloc().
* This is very portable in the sense that it'll compile on almost anything,
* but you'd better have lots of main memory (or virtual memory) if you want
* to process big images.
* Note that the max_memory_to_use option is ignored by this implementation.
*/

Found in path(s):
*/

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

/*
 * wrppm.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modified 2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in PPM/PGM format.
 * The extended 2-byte-per-sample raw PPM/PGM formats are supported.
 * The PBMPLUS library is NOT required to compile this software
 * (but it is highly useful as a set of PPM image manipulation programs).
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 */

Found in path(s):
*/
 * jchuff.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains Huffman entropy encoding routines.
 *
 * Much of the complexity here has to do with supporting output suspension.
 * If the data destination module demands suspension, we want to be able to
 * back up to the start of the current MCU. To do this, we copy state
 * variables into local working storage, and update them back to the
 * permanent JPEG objects only upon successful completion of an MCU.
 */

Found in path(s):
*/
/*
 * jmorecfg.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2009, 2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains additional configuration options that customize the
 * JPEG software for special applications or support machine-dependent
 * optimizations. Most users will not need to touch this file.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jmorecfg.h
No license file was found, but licenses were detected in source scan.

/*
 * jccoefct.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the coefficient buffer controller for compression.
 * This controller is the top level of the JPEG compressor proper.
 * The coefficient buffer lies between forward-DCT and entropy encoding steps.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jccoefct.c
No license file was found, but licenses were detected in source scan.

/*
 * jpegcomp.h
 *
 * Copyright (C) 2010, D. R. Commander
 * For conditions of distribution and use, see the accompanying README file.
 *
 * JPEG compatibility macros
 * These declarations are considered internal to the JPEG library; most
 * applications using the library shouldn't need to include this file.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jpegcomp.h
No license file was found, but licenses were detected in source scan.

/*
 * jdatasrc.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2013, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains decompression data source routines for the case of
 * reading JPEG data from memory or from a file (or any stdio stream).
 * While these routines are sufficient for most applications,
 * some will want to use a different source manager.
 * IMPORTANT: we assume that fread() will correctly transcribe an array of
 * JOCTETs from 8-bit-wide elements on external storage. If char is wider
 * than 8 bits on your machine, you may need to do some tweaking.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdatasrc.c
No license file was found, but licenses were detected in source scan.

/*
 * jccolor.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * Modifications:
 * Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
 * Copyright (C) 2009-2012, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains input colorspace conversion routines.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jccolor.c
No license file was found, but licenses were detected in source scan.

/*
 * jquant1.c
 */
This file was part of the Independent JPEG Group's software:
Copyright (C) 1991-1996, Thomas G. Lane.
Modifications:
Copyright (C) 2009, D. R. Commander
For conditions of distribution and use, see the accompanying README file.

This file contains 1-pass color quantization (color mapping) routines.
These routines provide mapping to a fixed color map using equally spaced
color values. Optional Floyd-Steinberg or ordered dithering is available.

Found in path(s):
/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jquant1.c
No license file was found, but licenses were detected in source scan.

/*
* simd/jsimd.h
*
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* Copyright 2011 D. R. Commander
*
* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc
*
*/

Found in path(s):
/opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jsimd.h
No license file was found, but licenses were detected in source scan.

/*
* jdmaster.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modified 2002-2009 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains master control logic for the JPEG decompressor.
* These routines are concerned with selecting the modules to be executed
* and with determining the number of passes and the work to be done in each
* pass.
Found in path(s):
*/
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdmaster.c
No license file was found, but licenses were detected in source scan.
*/
* wrjpgcom.c
*
* Copyright (C) 1994-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains a very simple stand-alone application that inserts
* user-supplied text as a COM (comment) marker in a JFIF file.
* This may be useful as an example of the minimum logic needed to parse
* JPEG markers.
*/

Found in path(s):
*/
* jconfig.txt
*
* Copyright (C) 1991-1994, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file documents the configuration options that are required to
* customize the JPEG software for a particular system.
* The actual configuration options for a particular installation are stored
* in jconfig.h. On many machines, jconfig.h can be generated automatically
* or copied from one of the "canned" jconfig files that we supply. But if
* you need to generate a jconfig.h file by hand, this file tells you how.
* DO NOT EDIT THIS FILE --- IT WON'T ACCOMPLISH ANYTHING.
* EDIT A COPY NAMED JCONFIG.H.
*/

/*
* These symbols indicate the properties of your machine or compiler.
* #define the symbol if yes, #undef it if no.
/*

/* Does your compiler support function prototypes?
* (If not, you also need to use ansi2knr, see install.txt)
*/
#define HAVE_PROTOTYPES

/* Does your compiler support the declaration "unsigned char"?
* How about "unsigned short"?
*/
#define HAVE_UNSIGNED_CHAR
#define HAVE_UNSIGNED_SHORT

/* Define "void" as "char" if your compiler doesn't know about type void.
* NOTE: be sure to define void such that "void *" represents the most general
* pointer type, e.g., that returned by malloc().
*/
#if defined void char */

/* Define "const" as empty if your compiler doesn't know the "const" keyword.
*/
#if defined const */

/* Define this if an ordinary "char" type is unsigned.
* If you're not sure, leaving it undefined will work at some cost in speed.
* If you defined HAVE_UNSIGNED_CHAR then the speed difference is minimal.
*/
#undef CHAR_IS_UNSIGNED

/* Define this if your system has an ANSI-conforming <stddef.h> file.
*/
#define HAVE_STDDEF_H

/* Define this if your system has an ANSI-conforming <stdlib.h> file.
*/
#define HAVE_STDLIB_H

/* Define this if your system does not have an ANSI/SysV <string.h>,
* but does have a BSD-style <strings.h>.
*/
#undef NEED_BSD_STRINGS

/* Define this if your system does not provide typedef size_t in any of the
* ANSI-standard places (stdlib.h, stdlib.h, or stdio.h), but places it in
* <sys/types.h> instead.
*/
#undef NEED_SYS_TYPES_H
For 80x86 machines, you need to define NEED_FAR_POINTERS,
* unless you are using a large-data memory model or 80386 flat-memory mode.
* On less brain-damaged CPUs this symbol must not be defined.
* (Defining this symbol causes large data structures to be referenced through
* "far" pointers and to be allocated with a special version of malloc.)

#undef NEED_FAR_POINTERS

/* Define this if your linker needs global names to be unique in less
* than the first 15 characters.
*/
#undef NEED_SHORT_EXTERNAL_NAMES

/* Although a real ANSI C compiler can deal perfectly well with pointers to
* unspecified structures (see "incomplete types" in the spec), a few pre-ANSI
* and pseudo-ANSI compilers get confused. To keep one of these bozos happy,
* define INCOMPLETE_TYPES_BROKEN. This is not recommended unless you
* actually get "missing structure definition" warnings or errors while
* compiling the JPEG code.
*/
#undef INCOMPLETE_TYPES_BROKEN

/* Define "boolean" as unsigned char, not int, on Windows systems.
*/
#ifdef _WIN32
#ifndef __RPCNDR_H__
#pragma don't conflict if rpcndr.h already read */
typedef unsigned char boolean;
#endif
#define HAVE_BOOLEAN		/* prevent jmorecfg.h from redefining it */
#endif

/* The following options affect code selection within the JPEG library,
* but they don't need to be visible to applications using the library.
* To minimize application namespace pollution, the symbols won't be
* defined unless JPEG_INTERNALS has been defined.
*/
#ifdef JPEG_INTERNALS
/* Define this if your compiler implements ">>" on signed values as a logical
* (unsigned) shift; leave it undefined if ">>" is a signed (arithmetic) shift,
* which is the normal and rational definition.
*/
#undef RIGHT_SHIFT_IS_UNSIGNED
/*
 * The remaining options do not affect the JPEG library proper,
 * but only the sample applications cjpe/djpeg (see cjpe.c, djpe.c).
 * Other applications can ignore these.
 */

#ifndef JPEG_CJPEG_DJPEG

/* These defines indicate which image (non-JPEG) file formats are allowed. */

#define BMP_SUPPORTED /* BMP image file format */
#define GIF_SUPPORTED /* GIF image file format */
#define PPM_SUPPORTED /* PBMPLUS PPM/PGM image file format */
#undef RLE_SUPPORTED /* Utah RLE image file format */
#define TARGA_SUPPORTED /* Targa image file format */

/* Define this if you want to name both input and output files on the command
 * line, rather than using stdout and optionally stdin.  You MUST do this if
 * your system can't cope with binary I/O to stdin/stdout.  See comments at
 * head of cjpe.c or djpe.c.
 */
#undef TWO_FILE_COMMANDLINE

/* Define this if your system needs explicit cleanup of temporary files.
 * This is crucial under MS-DOS, where the temporary "files" may be areas
 * of extended memory; on most other systems it's not as important.
 */
#undef NEED_SIGNAL_CATCHER

/* By default, we open image files with fopen(...."rb") or fopen(...."wb").
 * This is necessary on systems that distinguish text files from binary files,
 * and is harmless on most systems that don't.  If you have one of the rare
 * systems that complains about the "b" spec, define this symbol.
 */
#undef DONT_USE_B_MODE

/* Define this if you want percent-done progress reports from cjpe/djpeg.
 */
#undef PROGRESS_REPORT

#endif /* JPEG_CJPEG_DJPEG */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jconfig.txt
No license file was found, but licenses were detected in source scan.

/*
 * jfdctfst.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a fast, not so accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 *
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jfdctfst.c
No license file was found, but licenses were detected in source scan.

/*
 * wrtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Targa format.
 */
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
* Based on code contributed by Lee Daniel Crocker.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/wrtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * jdhuff.h
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modifications:
 * Copyright (C) 2010-2011, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains declarations for Huffman entropy decoding routines
 * that are shared between the sequential decoder (jdhuff.c) and the
 * progressive decoder (jdphuff.c). No other modules need to see these.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdhuff.h
No license file was found, but licenses were detected in source scan.

/*
 * wrgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in GIF format.
 *
******************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,      *
* this code has been modified to output "uncompressed GIF" files.          *
* There is no trace of the LZW algorithm in this file.                    *
******************************************************************************
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*/
/*
* This code is loosely based on ppmtogif from the PBPLUS distribution
* of Feb. 1991. That file contains the following copyright notice:
* Based on GIFENCE by David Rowley <mgardi@watdscu.waterloo.edu>
* Lempel-Ziv compression based on "compress" by Spencer W. Thomas et al.
* Copyright (C) 1989 by Jef Poskanzer.
* Permission to use, copy, modify, and distribute this software and its
* documentation for any purpose and without fee is hereby granted, provided
* that the above copyright notice appear in all copies and that both that
* copyright notice and this permission notice appear in supporting
* documentation. This software is provided "as is" without express or
* implied warranty.
* We are also required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/wrgif.c
No license file was found, but licenses were detected in source scan.

; For conditions of distribution and use, see copyright notice in jsimdext.inc
; more details.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfss2int.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jfss2int-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2int.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2int-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jimmxint.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
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USING THE IJG JPEG LIBRARY

This file was part of the Independent JPEG Group's software:
This file describes how to use the IJG JPEG library within an application program. Read it if you want to write a program that uses the library.

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

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

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

OVERVIEW
========

Functions provided by the library
---------------------------------

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

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

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

A word about functions *not* provided by the library. We handle a subset of the ISO JPEG standard; most baseline, extended-sequential, and progressive JPEG processes are supported. (Our subset includes all features now in common use.) Unsupported ISO options include:
* Hierarchical storage
* Lossless JPEG
* DNL marker
* Nonintegral subsampling ratios
We support both 8- and 12-bit data precision, but this is a compile-time choice rather than a run-time choice; hence it is difficult to use both precisions in a single application.

By itself, the library handles only interchange JPEG datastreams --- in particular the widely used JFIF file format. The library can be used by surrounding code to process interchange or abbreviated JPEG datastreams that are embedded in more complex file formats. (For example, this library is used by the free LIBTIFF library to support JPEG compression in TIFF.)

Outline of typical usage
-------------------------------

The rough outline of a JPEG compression operation is:

Allocate and initialize a JPEG compression object
Specify the destination for the compressed data (eg, a file)
Set parameters for compression, including image size & colorspace
jpeg_start_compress(...);
while (scan lines remain to be written)
jpeg_write_scanlines(...);
jpeg_finish_compress(...);
Release the JPEG compression object

A JPEG compression object holds parameters and working state for the JPEG library. We make creation/destruction of the object separate from starting or finishing compression of an image; the same object can be re-used for a series of image compression operations. This makes it easy to re-use the same parameter settings for a sequence of images. Re-use of a JPEG object also has important implications for processing abbreviated JPEG datastreams, as discussed later.

The image data to be compressed is supplied to jpeg_write_scanlines() from in-memory buffers. If the application is doing file-to-file compression, reading image data from the source file is the application's responsibility. The library emits compressed data by calling a "data destination manager", which typically will write the data into a file; but the application can provide its own destination manager to do something else.

Similarly, the rough outline of a JPEG decompression operation is:

Allocate and initialize a JPEG decompression object
Specify the source of the compressed data (eg, a file)
Call jpeg_read_header() to obtain image info
Set parameters for decompression
jpeg_start_decompress(...);
while (scan lines remain to be read)
jpeg_read_scanlines(...);
jpeg_finish_decompress(...);
Release the JPEG decompression object

This is comparable to the compression outline except that reading the
datastream header is a separate step. This is helpful because information
about the image's size, colorspace, etc is available when the application
selects decompression parameters. For example, the application can choose an
output scaling ratio that will fit the image into the available screen size.

The decompression library obtains compressed data by calling a data source
manager, which typically will read the data from a file; but other behaviors
can be obtained with a custom source manager. Decompressed data is delivered
into in-memory buffers passed to jpeg_read_scanlines().

It is possible to abort an incomplete compression or decompression operation
by calling jpeg_abort(); or, if you do not need to retain the JPEG object,
simply release it by calling jpeg_destroy().

JPEG compression and decompression objects are two separate struct types.
However, they share some common fields, and certain routines such as
jpeg_destroy() can work on either type of object.

The JPEG library has no static variables: all state is in the compression
or decompression object. Therefore it is possible to process multiple
compression and decompression operations concurrently, using multiple JPEG
objects.

Both compression and decompression can be done in an incremental memory-to-
memory fashion, if suitable source/destination managers are used. See the
section on "I/O suspension" for more details.

BASIC LIBRARY USAGE
=====================

Data formats
-----------

Before diving into procedural details, it is helpful to understand the
image data format that the JPEG library expects or returns.

The standard input image format is a rectangular array of pixels, with each
pixel having the same number of "component" or "sample" values (color
channels). You must specify how many components there are and the colorspace
interpretation of the components. Most applications will use RGB data
(three components per pixel) or grayscale data (one component per pixel).
PLEASE NOTE THAT RGB DATA IS THREE SAMPLES PER PIXEL, GRAYSCALE ONLY ONE.
A remarkable number of people manage to miss this, only to find that their programs don't work with grayscale JPEG files.

There is no provision for colormapped input. JPEG files are always full-color or full grayscale (or sometimes another colorspace such as CMYK). You can feed in a colormapped image by expanding it to full-color format. However JPEG often doesn't work very well with source data that has been colormapped, because of dithering noise. This is discussed in more detail in the JPEG FAQ and the other references mentioned in the README file.

Pixels are stored by scanlines, with each scanline running from left to right. The component values for each pixel are adjacent in the row; for example, R,G,B,R,G,B,R,G,B,... for 24-bit RGB color. Each scanline is an array of data type JSAMPLE --- which is typically "unsigned char", unless you've changed jmorecfg.h. (You can also change the RGB pixel layout, say to B,G,R order, by modifying jmorecfg.h. But see the restrictions listed in that file before doing so.)

A 2-D array of pixels is formed by making a list of pointers to the starts of scanlines; so the scanlines need not be physically adjacent in memory. Even if you process just one scanline at a time, you must make a one-element pointer array to conform to this structure. Pointers to JSAMPLE rows are of type JSAMPROW, and the pointer to the pointer array is of type JSAMPARRAY.

The library accepts or supplies one or more complete scanlines per call. It is not possible to process part of a row at a time. Scanlines are always processed top-to-bottom. You can process an entire image in one call if you have it all in memory, but usually it's simplest to process one scanline at a time.

For best results, source data values should have the precision specified by BITS_IN_JSAMPLE (normally 8 bits). For instance, if you choose to compress data that's only 6 bits/channel, you should left-justify each value in a byte before passing it to the compressor. If you need to compress data that has more than 8 bits/channel, compile with BITS_IN_JSAMPLE = 12. (See "Library compile-time options", later.)

The data format returned by the decompressor is the same in all details, except that colormapped output is supported. (Again, a JPEG file is never colormapped. But you can ask the decompressor to perform on-the-fly color quantization to deliver colormapped output.) If you request colormapped output then the returned data array contains a single JSAMPLE per pixel; its value is an index into a color map. The color map is represented as a 2-D JSAMPARRAY in which each row holds the values of one color component, that is, colormap[i][j] is the value of the i'th color component for pixel value (map index) j. Note that since the colormap indexes are stored in JSAMPLEs, the maximum number of colors is limited by the size of JSAMPLE
Compression details
-------------------

Here we revisit the JPEG compression outline given in the overview.

1. Allocate and initialize a JPEG compression object.

A JPEG compression object is a "struct jpeg_compress_struct". (It also has a bunch of subsidiary structures which are allocated via malloc(), but the application doesn't control those directly.) This struct can be just a local variable in the calling routine, if a single routine is going to execute the whole JPEG compression sequence. Otherwise it can be static or allocated from malloc().

You will also need a structure representing a JPEG error handler. The part of this that the library cares about is a "struct jpeg_error_mgr". If you are providing your own error handler, you'll typically want to embed the jpeg_error_mgr struct in a larger structure; this is discussed later under "Error handling". For now we'll assume you are just using the default error handler. The default error handler will print JPEG error/warning messages on stderr, and it will call exit() if a fatal error occurs.

You must initialize the error handler structure, store a pointer to it into the JPEG object's "err" field, and then call jpeg_create_compress() to initialize the rest of the JPEG object.

Typical code for this step, if you are using the default error handler, is

```
struct jpeg_compress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_compress(&cinfo);
```

jpeg_create_compress allocates a small amount of memory, so it could fail if you are out of memory. In that case it will exit via the error handler; that's why the error handler must be initialized first.

2. Specify the destination for the compressed data (e.g., a file).

As previously mentioned, the JPEG library delivers compressed data to a "data destination" module. The library includes one data destination module which knows how to write to a stdio stream. You can use your own destination module if you want to do something else, as discussed later.
If you use the standard destination module, you must open the target stdio
stream beforehand. Typical code for this step looks like:

```c
FILE * outfile;
...
if ((outfile = fopen(filename, "wb")) == NULL) {
    fprintf(stderr, "can't open %s\n", filename);
    exit(1);
}
jpeg_stdio_dest(&cinfo, outfile);
```

where the last line invokes the standard destination module.

**WARNING:** it is critical that the binary compressed data be delivered to the
output file unchanged. On non-Unix systems the stdio library may perform
newline translation or otherwise corrupt binary data. To suppress this
behavior, you may need to use a "b" option to fopen (as shown above), or use
setmode() or another routine to put the stdio stream in binary mode. See
cjpeg.c and djpeg.c for code that has been found to work on many systems.

You can select the data destination after setting other parameters (step 3),
if that's more convenient. You may not change the destination between
calling jpeg_start_compress() and jpeg_finish_compress().

3. Set parameters for compression, including image size & colorspace.

You must supply information about the source image by setting the following
fields in the JPEG object (cinfo structure):

- `image_width`: Width of image, in pixels
- `image_height`: Height of image, in pixels
- `input_components`: Number of color channels (samples per pixel)
- `in_color_space`: Color space of source image

The image dimensions are, hopefully, obvious. JPEG supports image dimensions
defined to 64K pixels in either direction. The input color space is typically
RGB or grayscale, and `input_components` is 3 or 1 accordingly. (See "Special
color spaces", later, for more info.) The `in_color_space` field must be
assigned one of the `J_COLOR_SPACE` enum constants, typically `JCS_RGB` or
`JCS_GRAYSCALE`.

JPEG has a large number of compression parameters that determine how the
image is encoded. Most applications don't need or want to know about all
these parameters. You can set all the parameters to reasonable defaults by
calling `jpeg_set_defaults();` then, if there are particular values you want
to change, you can do so after that. The "Compression parameter selection"
section tells about all the parameters.

You must set in_color_space correctly before calling jpeg_set_defaults(), because the defaults depend on the source image colorspace. However the other three source image parameters need not be valid until you call jpeg_start_compress(). There’s no harm in calling jpeg_set_defaults() more than once, if that happens to be convenient.

Typical code for a 24-bit RGB source image is

cinfo.image_width = Width; /* image width and height, in pixels */
cinfo.image_height = Height;
cinfo.input_components = 3; /* # of color components per pixel */
cinfo.in_color_space = JCS_RGB; /* colorspace of input image */

jpeg_set_defaults(&cinfo);
/* Make optional parameter settings here */

4. jpeg_start_compress(...);

After you have established the data destination and set all the necessary source image info and other parameters, call jpeg_start_compress() to begin a compression cycle. This will initialize internal state, allocate working storage, and emit the first few bytes of the JPEG datastream header.

Typical code:

jpeg_start_compress(&cinfo, TRUE);

The "TRUE" parameter ensures that a complete JPEG interchange datastream will be written. This is appropriate in most cases. If you think you might want to use an abbreviated datastream, read the section on abbreviated datastreams, below.

Once you have called jpeg_start_compress(), you may not alter any JPEG parameters or other fields of the JPEG object until you have completed the compression cycle.

5. while (scan lines remain to be written)
jpeg_write_scanlines(...);

Now write all the required image data by calling jpeg_write_scanlines() one or more times. You can pass one or more scanlines in each call, up to the total image height. In most applications it is convenient to pass just one or a few scanlines at a time. The expected format for the passed data is discussed under "Data formats", above.
Image data should be written in top-to-bottom scanline order. The JPEG spec contains some weasel wording about how top and bottom are application-defined terms (a curious interpretation of the English language...) but if you want your files to be compatible with everyone else's, you WILL use top-to-bottom order. If the source data must be read in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application cjpeg.

The library maintains a count of the number of scanlines written so far in the next_scanline field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.next_scanline < cinfo.image_height") .

Code for this step depends heavily on the way that you store the source data. example.c shows the following code for the case of a full-size 2-D source array containing 3-byte RGB pixels:

```c
JSAMPROW row_pointer[1]; /* pointer to a single row */
int row_stride; /* physical row width in buffer */

row_stride = image_width * 3; /* JSAMPLEs per row in image_buffer */

while (cinfo.next_scanline < cinfo.image_height) {
    row_pointer[0] = & image_buffer[cinfo.next_scanline * row_stride];
    jpeg_write_scanlines(&cinfo, row_pointer, 1);
}
```

`jpeg_write_scanlines()` returns the number of scanlines actually written. This will normally be equal to the number passed in, so you can usually ignore the return value. It is different in just two cases:

* If you try to write more scanlines than the declared image height, the additional scanlines are ignored.
* If you use a suspending data destination manager, output buffer overrun will cause the compressor to return before accepting all the passed lines. This feature is discussed under "I/O suspension", below. The normal stdio destination manager will NOT cause this to happen.

In any case, the return value is the same as the change in the value of next_scanline.

6. jpeg_finish_compress(...);

After all the image data has been written, call `jpeg_finish_compress()` to complete the compression cycle. This step is ESSENTIAL to ensure that the last bufferload of data is written to the data destination. `jpeg_finish_compress()` also releases working memory associated with the JPEG object.
Typical code:

jpeg_finish_compress(&cinfo);

If using the stdio destination manager, don't forget to close the output stdio stream (if necessary) afterwards.

If you have requested a multi-pass operating mode, such as Huffman code optimization, jpeg_finish_compress() will perform the additional passes using data buffered by the first pass. In this case jpeg_finish_compress() may take quite a while to complete. With the default compression parameters, this will not happen.

It is an error to call jpeg_finish_compress() before writing the necessary total number of scanlines. If you wish to abort compression, call jpeg_abort() as discussed below.

After completing a compression cycle, you may dispose of the JPEG object as discussed next, or you may use it to compress another image. In that case return to step 2, 3, or 4 as appropriate. If you do not change the destination manager, the new datastream will be written to the same target. If you do not change any JPEG parameters, the new datastream will be written with the same parameters as before. Note that you can change the input image dimensions freely between cycles, but if you change the input colorspace, you should call jpeg_set_defaults() to adjust for the new colorspace; and then you'll need to repeat all of step 3.

7. Release the JPEG compression object.

When you are done with a JPEG compression object, destroy it by calling jpeg_destroy_compress(). This will free all subsidiary memory (regardless of the previous state of the object). Or you can call jpeg_destroy(), which works for either compression or decompression objects --- this may be more convenient if you are sharing code between compression and decompression cases. (Actually, these routines are equivalent except for the declared type of the passed pointer. To avoid gripes from ANSI C compilers, jpeg_destroy() should be passed a j_common_ptr.)

If you allocated the jpeg_compress_struct structure from malloc(), freeing it is your responsibility --- jpeg_destroy() won't. Ditto for the error handler structure.

Typical code:

jpeg_destroy_compress(&cinfo);
8. Aborting.

If you decide to abort a compression cycle before finishing, you can clean up in either of two ways:

* If you don't need the JPEG object any more, just call jpeg_destroy_compress() or jpeg_destroy() to release memory. This is legitimate at any point after calling jpeg_create_compress() --- in fact, it's safe even if jpeg_create_compress() fails.

* If you want to re-use the JPEG object, call jpeg_abort_compress(), or call jpeg_abort() which works on both compression and decompression objects. This will return the object to an idle state, releasing any working memory. jpeg_abort() is allowed at any time after successful object creation.

Note that cleaning up the data destination, if required, is your responsibility; neither of these routines will call term_destination(). (See "Compressed data handling", below, for more about that.)

jpeg_destroy() and jpeg_abort() are the only safe calls to make on a JPEG object that has reported an error by calling error_exit (see "Error handling" for more info). The internal state of such an object is likely to be out of whack. Either of these two routines will return the object to a known state.

Decompression details
---------------------

Here we revisit the JPEG decompression outline given in the overview.

1. Allocate and initialize a JPEG decompression object.

This is just like initialization for compression, as discussed above, except that the object is a "struct jpeg_decompress_struct" and you call jpeg_create_decompress(). Error handling is exactly the same.

Typical code:

```c
struct jpeg_decompress_struct cinfo;
struct jpeg_error_mgr jerr;
...
cinfo.err = jpeg_std_error(&jerr);
jpeg_create_decompress(&cinfo);
```

(Both here and in the IJG code, we usually use variable name "cinfo" for both compression and decompression objects.)
2. Specify the source of the compressed data (eg, a file).

As previously mentioned, the JPEG library reads compressed data from a "data source" module. The library includes one data source module which knows how to read from a stdio stream. You can use your own source module if you want to do something else, as discussed later.

If you use the standard source module, you must open the source stdio stream beforehand. Typical code for this step looks like:

```c
FILE * infile;
... 
if ((infile = fopen(filename, "rb")) == NULL) {
   fprintf(stderr, "can't open %s\n", filename);
   exit(1);
}
jpeg_stdio_src(&cinfo, infile);
```

where the last line invokes the standard source module.

WARNING: it is critical that the binary compressed data be read unchanged. On non-Unix systems the stdio library may perform newline translation or otherwise corrupt binary data. To suppress this behavior, you may need to use a "b" option to fopen (as shown above), or use setmode() or another routine to put the stdio stream in binary mode. See cjpeg.c and djpeg.c for code that has been found to work on many systems.

You may not change the data source between calling jpeg_read_header() and jpeg_finish_decompress(). If you wish to read a series of JPEG images from a single source file, you should repeat the jpeg_read_header() to jpeg_finish_decompress() sequence without reinitializing either the JPEG object or the data source module; this prevents buffered input data from being discarded.

3. Call jpeg_read_header() to obtain image info.

Typical code for this step is just

```c
jpeg_read_header(&cinfo, TRUE);
```

This will read the source datastream header markers, up to the beginning of the compressed data proper. On return, the image dimensions and other info have been stored in the JPEG object. The application may wish to consult this information before selecting decompression parameters.

More complex code is necessary if
* A suspending data source is used --- in that case jpeg_read_header() may return before it has read all the header data. See "I/O suspension", below. The normal stdio source manager will NOT cause this to happen.

* Abbreviated JPEG files are to be processed --- see the section on abbreviated datastreams. Standard applications that deal only in interchange JPEG files need not be concerned with this case either.

It is permissible to stop at this point if you just wanted to find out the image dimensions and other header info for a JPEG file. In that case, call jpeg_destroy() when you are done with the JPEG object, or call jpeg_abort() to return it to an idle state before selecting a new data source and reading another header.

4. Set parameters for decompression.

jpeg_read_header() sets appropriate default decompression parameters based on the properties of the image (in particular, its colorspace). However, you may well want to alter these defaults before beginning the decompression. For example, the default is to produce full color output from a color file. If you want colormapped output you must ask for it. Other options allow the returned image to be scaled and allow various speed/quality tradeoffs to be selected. "Decompression parameter selection", below, gives details.

If the defaults are appropriate, nothing need be done at this step.

Note that all default values are set by each call to jpeg_read_header(). If you reuse a decompression object, you cannot expect your parameter settings to be preserved across cycles, as you can for compression. You must set desired parameter values each time.

5. jpeg_start_decompress(...);

Once the parameter values are satisfactory, call jpeg_start_decompress() to begin decompression. This will initialize internal state, allocate working memory, and prepare for returning data.

Typical code is just

jpeg_start_decompress(&cinfo);

If you have requested a multi-pass operating mode, such as 2-pass color quantization, jpeg_start_decompress() will do everything needed before data output can begin. In this case jpeg_start_decompress() may take quite a while to complete. With a single-scan (non progressive) JPEG file and default decompression parameters, this will not happen; jpeg_start_decompress() will return quickly.
After this call, the final output image dimensions, including any requested scaling, are available in the JPEG object; so is the selected colormap, if colormapped output has been requested. Useful fields include

- `output_width`: image width and height, as scaled
- `output_height`
- `out_color_components`: # of color components in `out_color_space`
- `output_components`: # of color components returned per pixel
- `colormap`: the selected colormap, if any
- `actual_number_of_colors`: number of entries in colormap

`output_components` is 1 (a colormap index) when quantizing colors; otherwise it equals `out_color_components`. It is the number of JSAMPLE values that will be emitted per pixel in the output arrays.

Typically you will need to allocate data buffers to hold the incoming image. You will need `output_width * output_components` JSAMPLEs per scanline in your output buffer, and a total of `output_height` scanlines will be returned.

Note: if you are using the JPEG library's internal memory manager to allocate data buffers (as `djpeg` does), then the manager's protocol requires that you request large buffers *before* calling `jpeg_start_decompress()`. This is a little tricky since the `output_XXX` fields are not normally valid then. You can make them valid by calling `jpeg_calc_output_dimensions()` after setting the relevant parameters (scaling, output color space, and quantization flag).

6. while (scan lines remain to be read)
   jpeg_read_scanlines(...);

Now you can read the decompressed image data by calling `jpeg_read_scanlines()` one or more times. At each call, you pass in the maximum number of scanlines to be read (ie, the height of your working buffer); `jpeg_read_scanlines()` will return up to that many lines. The return value is the number of lines actually read. The format of the returned data is discussed under "Data formats", above. Don't forget that grayscale and color JPEGs will return different data formats!

Image data is returned in top-to-bottom scanline order. If you must write out the image in bottom-to-top order, you can use the JPEG library's virtual array mechanism to invert the data efficiently. Examples of this can be found in the sample application `djpeg`.

The library maintains a count of the number of scanlines returned so far in the `output_scanline` field of the JPEG object. Usually you can just use this variable as the loop counter, so that the loop test looks like "while (cinfo.output_scanline < cinfo.output_height)". (Note that the test
should NOT be against image_height, unless you never use scaling. The image_height field is the height of the original unscaled image.) The return value always equals the change in the value of output_scanline.

If you don't use a suspending data source, it is safe to assume that jpeg_read_scanlines() reads at least one scanline per call, until the bottom of the image has been reached.

If you use a buffer larger than one scanline, it is NOT safe to assume that jpeg_read_scanlines() fills it. (The current implementation returns only a few scanlines per call, no matter how large a buffer you pass.) So you must always provide a loop that calls jpeg_read_scanlines() repeatedly until the whole image has been read.

7. jpeg_finish_decompress(...);

After all the image data has been read, call jpeg_finish_decompress() to complete the decompression cycle. This causes working memory associated with the JPEG object to be released.

Typical code:

jpeg_finish_decompress(&cinfo);

If using the stdio source manager, don't forget to close the source stdio stream if necessary.

It is an error to call jpeg_finish_decompress() before reading the correct total number of scanlines. If you wish to abort decompression, call jpeg_abort() as discussed below.

After completing a decompression cycle, you may dispose of the JPEG object as discussed next, or you may use it to decompress another image. In that case return to step 2 or 3 as appropriate. If you do not change the source manager, the next image will be read from the same source.

8. Release the JPEG decompression object.

When you are done with a JPEG decompression object, destroy it by calling jpeg_destroy_decompress() or jpeg_destroy(). The previous discussion of destroying compression objects applies here too.

Typical code:

jpeg_destroy_decompress(&cinfo);

You can abort a decompression cycle by calling jpeg_destroy_decompress() or jpeg_destroy() if you don't need the JPEG object any more, or jpeg_abort_decompress() or jpeg_abort() if you want to reuse the object. The previous discussion of aborting compression cycles applies here too.

Mechanics of usage: include files, linking, etc
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Applications using the JPEG library should include the header file jpeglib.h to obtain declarations of data types and routines. Before including jpeglib.h, include system headers that define at least the typedefs FILE and size_t. On ANSI-conforming systems, including <stdio.h> is sufficient; on older Unix systems, you may need <sys/types.h> to define size_t.

If the application needs to refer to individual JPEG library error codes, also include jerror.h to define those symbols.

jpeglib.h indirectly includes the files jconfig.h and jmorecfg.h. If you are installing the JPEG header files in a system directory, you will want to install all four files: jpeglib.h, jerror.h, jconfig.h, jmorecfg.h.

The most convenient way to include the JPEG code into your executable program is to prepare a library file ("libjpeg.a", or a corresponding name on non-Unix machines) and reference it at your link step. If you use only half of the library (only compression or only decompression), only that much code will be included from the library, unless your linker is hopelessly brain-damaged. The supplied makefiles build libjpeg.a automatically (see install.txt).

While you can build the JPEG library as a shared library if the whim strikes you, we don't really recommend it. The trouble with shared libraries is that at some point you'll probably try to substitute a new version of the library without recompiling the calling applications. That generally doesn't work because the parameter struct declarations usually change with each new version. In other words, the library's API is *not* guaranteed binary compatible across versions; we only try to ensure source-code compatibility. (In hindsight, it might have been smarter to hide the parameter structs from applications and introduce a ton of access functions instead. Too late now, however.)

On some systems your application may need to set up a signal handler to ensure that temporary files are deleted if the program is interrupted. This is most critical if you are on MS-DOS and use the jmemdos.c memory manager back end; it will try to grab extended memory for temp files, and that space will NOT be freed automatically. See cjpeg.c or djpeg.c for an example signal handler.
It may be worth pointing out that the core JPEG library does not actually require the stdio library: only the default source/destination managers and error handler need it. You can use the library in a stdio-less environment if you replace those modules and use jmemnobs.c (or another memory manager of your own devising). More info about the minimum system library requirements may be found in jinclude.h.

ADVANCED FEATURES
=================

Compression parameter selection
---------------------------------

This section describes all the optional parameters you can set for JPEG compression, as well as the "helper" routines provided to assist in this task. Proper setting of some parameters requires detailed understanding of the JPEG standard; if you don't know what a parameter is for, it's best not to mess with it! See REFERENCES in the README file for pointers to more info about JPEG.

It's a good idea to call jpeg_set_defaults() first, even if you plan to set all the parameters; that way your code is more likely to work with future JPEG libraries that have additional parameters. For the same reason, we recommend you use a helper routine where one is provided, in preference to twiddling cinfo fields directly.

The helper routines are:

jpeg_set_defaults (j_compress_ptr cinfo)
This routine sets all JPEG parameters to reasonable defaults, using only the input image's color space (field in_color_space, which must already be set in cinfo). Many applications will only need to use this routine and perhaps jpeg_set_quality().

jpeg_set_colorspace (j_compress_ptr cinfo, J_COLOR_SPACE colorspace)
Sets the JPEG file's colorspace (field jpeg_color_space) as specified, and sets other color-space-dependent parameters appropriately. See "Special color spaces", below, before using this. A large number of parameters, including all per-component parameters, are set by this routine; if you want to twiddle individual parameters you should call jpeg_set_colorspace() before rather than after.

jpeg_default_colorspace (j_compress_ptr cinfo)
Selects an appropriate JPEG colorspace based on cinfo->in_color_space, and calls jpeg_set_colorspace(). This is actually a subroutine of jpeg_set_defaults(). It's broken out in case you want to change
just the colorspace-dependent JPEG parameters.

```c
jpeg_set_quality (j_compress_ptr cinfo, int quality, boolean force_baseline)
```
Constructs JPEG quantization tables appropriate for the indicated quality setting. The quality value is expressed on the 0..100 scale recommended by IJG (cjpeg's "-quality" switch uses this routine). Note that the exact mapping from quality values to tables may change in future IJG releases as more is learned about DCT quantization. If the force_baseline parameter is TRUE, then the quantization table entries are constrained to the range 1..255 for full JPEG baseline compatibility. In the current implementation, this only makes a difference for quality settings below 25, and it effectively prevents very small/low quality files from being generated. The IJG decoder is capable of reading the non-baseline files generated at low quality settings when force_baseline is FALSE, but other decoders may not be.

```c
jpeg_set_linear_quality (j_compress_ptr cinfo, int scale_factor, boolean force_baseline)
```
Same as jpeg_set_quality() except that the generated tables are the sample tables given in the JPEC spec section K.1, multiplied by the specified scale factor (which is expressed as a percentage; thus scale_factor = 100 reproduces the spec's tables). Note that larger scale factors give lower quality. This entry point is useful for conforming to the Adobe PostScript DCT conventions, but we do not recommend linear scaling as a user-visible quality scale otherwise. force_baseline again constrains the computed table entries to 1..255.

```c
int jpeg_quality_scaling (int quality)
```
Converts a value on the IJG-recommended quality scale to a linear scaling percentage. Note that this routine may change or go away in future releases --- IJG may choose to adopt a scaling method that can't be expressed as a simple scalar multiplier, in which case the premise of this routine collapses. Caveat user.

```c
jpeg_default_qtables (j_compress_ptr cinfo, boolean force_baseline)
[libjpeg v7+ API/ABI emulation only]
```
Set default quantization tables with linear q_scale_factor[] values (see below).

```c
jpeg_add_quant_table (j_compress_ptr cinfo, int which_tbl, 
const unsigned int *basic_table, 
int scale_factor, boolean force_baseline)
```
Allows an arbitrary quantization table to be created. which_tbl indicates which table slot to fill. basic_table points to an array of 64 unsigned ints given in normal array order. These values are multiplied by scale_factor/100 and then clamped to the range 1..65535 (or to 1..255 if force_baseline is TRUE).
CAUTION: prior to library version 6a, jpeg_add_quant_table expected
the basic table to be given in JPEG zigzag order. If you need to
write code that works with either older or newer versions of this
routine, you must check the library version number. Something like
"#if JPEG_LIB_VERSION >= 61" is the right test.

jpeg_simple_progression (j_compress_ptr cinfo)
Generates a default scan script for writing a progressive-JPEG file.
This is the recommended method of creating a progressive file,
unless you want to make a custom scan sequence. You must ensure that
the JPEG color space is set correctly before calling this routine.

Compression parameters (cinfo fields) include:

  J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step. Choices are:
JDCT_ISLOW: slow but accurate integer algorithm
JDCT_IFAST: faster, less accurate integer method
JDCT_FLOAT: floating-point method
JDCT_DEFAULT: default method (normally JDCT_ISLOW)
JDCT_FASTEST: fastest method (normally JDCT_IFAST)
The FLOAT method is very slightly more accurate than the ISLOW method,
but may give different results on different machines due to varying
roundoff behavior. The integer methods should give the same results
on all machines. On machines with sufficiently fast FP hardware, the
floating-point method may also be the fastest. The IFAST method is
considerably less accurate than the other two; its use is not
recommended if high quality is a concern. JDCT_DEFAULT and
JDCT_FASTEST are macros configurable by each installation.

  J_COLOR_SPACE jpeg_color_space
int num_components
The JPEG color space and corresponding number of components; see
"Special color spaces", below, for more info. We recommend using
jpeg_set_color_space() if you want to change these.

  boolean optimize_coding
TRUE causes the compressor to compute optimal Huffman coding tables
for the image. This requires an extra pass over the data and
therefore costs a good deal of space and time. The default is
FALSE, which tells the compressor to use the supplied or default
Huffman tables. In most cases optimal tables save only a few percent
of file size compared to the default tables. Note that when this is
TRUE, you need not supply Huffman tables at all, and any you do
supply will be overwritten.

  unsigned int restart_interval
int restart_in_rows
To emit restart markers in the JPEG file, set one of these nonzero. Set restart_interval to specify the exact interval in MCU blocks. Set restart_in_rows to specify the interval in MCU rows. (If restart_in_rows is not 0, then restart_interval is set after the image width in MCUs is computed.) Defaults are zero (no restarts). One restart marker per MCU row is often a good choice.

NOTE: the overhead of restart markers is higher in grayscale JPEG files than in color files, and MUCH higher in progressive JPEGs. If you use restarts, you may want to use larger intervals in those cases.

const jpeg_scan_info * scan_info
int num_scans

By default, scan_info is NULL; this causes the compressor to write a single-scan sequential JPEG file. If not NULL, scan_info points to an array of scan definition records of length num_scans. The compressor will then write a JPEG file having one scan for each scan definition record. This is used to generate noninterleaved or progressive JPEG files. The library checks that the scan array defines a valid JPEG scan sequence. (jpeg_simple_progression creates a suitable scan definition array for progressive JPEG.) This is discussed further under "Progressive JPEG support".

int smoothing_factor
If non-zero, the input image is smoothed; the value should be 1 for minimal smoothing to 100 for maximum smoothing. Consult jcsample.c for details of the smoothing algorithm. The default is zero.

boolean write_JFIF_header
If TRUE, a JFIF APP0 marker is emitted. jpeg_set_defaults() and jpeg_set_colorspace() set this TRUE if a JFIF-legal JPEG color space (ie, YCbCr or grayscale) is selected, otherwise FALSE.

UINT8 JFIF_major_version
UINT8 JFIF_minor_version
The version number to be written into the JFIF marker. jpeg_set_defaults() initializes the version to 1.01 (major=minor=1). You should set it to 1.02 (major=1, minor=2) if you plan to write any JFIF 1.02 extension markers.

UINT8 density_unit
UINT16 X_density
UINT16 Y_density
The resolution information to be written into the JFIF marker; not used otherwise. density_unit may be 0 for unknown, 1 for dots/inch, or 2 for dots/cm. The default values are 0,1,1 indicating square pixels of unknown size.
boolean write_Adobe_marker
If TRUE, an Adobe APP14 marker is emitted. jpeg_set_defaults() and jpeg_set_colorsplash() set this TRUE if JPEG color space RGB, CMYK, or YCCK is selected, otherwise FALSE. It is generally a bad idea to set both write_JFIF_header and write_Adobe_marker. In fact, you probably shouldn't change the default settings at all --- the default behavior ensures that the JPEG file's color space can be recognized by the decoder.

JQUANT_TBL * quant_tbl_ptrs[NUM_QUANT_TBLS]
Pointers to coefficient quantization tables, one per table slot, or NULL if no table is defined for a slot. Usually these should be set via one of the above helper routines; jpeg_add_quant_table() is general enough to define any quantization table. The other routines will set up table slot 0 for luminance quality and table slot 1 for chrominance.

int q_scale_factor[NUM_QUANT_TBLS]
[libjpeg v7+ API/ABI emulation only]
Linear quantization scaling factors (0-100, default 100) for use with jpeg_default_qtables(). See rdswitch.c and cjpeg.c for an example of usage.
Note that the q_scale_factor[] values use "linear" scales, so JPEG quality levels chosen by the user must be converted to these scales using jpeg_quality_scaling(). Here is an example that corresponds to cjpeg -quality 90,70:

jpeg_set_defaults(cinfo);

/* Set luminance quality 90. */
cinfo->q_scale_factor[0] = jpeg_quality_scaling(90);
/* Set chrominance quality 70. */
cinfo->q_scale_factor[1] = jpeg_quality_scaling(70);

jpeg_default_qtables(cinfo, force_baseline);

CAUTION: Setting separate quality levels for chrominance and luminance is mainly only useful if chrominance subsampling is disabled. 2x2 chrominance subsampling (AKA "4:2:0") is the default, but you can explicitly disable subsampling as follows:

cinfo->comp_info[0].v_samp_factor = 1;
cinfo->comp_info[0].h_samp_factor = 1;

JHUFF_TBL * dc_huff_tbl_ptrs[NUM_HUFF_TBLS]
JHUFF_TBL * ac_huff_tbl_ptrs[NUM_HUFF_TBLS]
Pointers to Huffman coding tables, one per table slot, or NULL if no table is defined for a slot. Slots 0 and 1 are filled with the
JPEG sample tables by jpeg_set_defaults(). If you need to allocate more table structures, jpeg_alloc_huff_table() may be used. Note that optimal Huffman tables can be computed for an image by setting optimize_coding, as discussed above; there's seldom any need to mess with providing your own Huffman tables.

[libjpeg v7+ API/ABI emulation only]
The actual dimensions of the JPEG image that will be written to the file are given by the following fields. These are computed from the input image dimensions and the compression parameters by jpeg_start_compress(). You can also call jpeg_calc_jpeg_dimensions() to obtain the values that will result from the current parameter settings. This can be useful if you are trying to pick a scaling ratio that will get close to a desired target size.

JDIMENSION jpeg_width
Actual dimensions of output image.
JDIMENSION jpeg_height

Per-component parameters are stored in the struct cinfo.comp_info[i] for component number i. Note that components here refer to components of the JPEG color space, *not* the source image color space. A suitably large comp_info[] array is allocated by jpeg_set_defaults(); if you choose not to use that routine, it's up to you to allocate the array.

int component_id
The one-byte identifier code to be recorded in the JPEG file for this component. For the standard color spaces, we recommend you leave the default values alone.

int h_samp_factor
int v_samp_factor
Horizontal and vertical sampling factors for the component; must be 1..4 according to the JPEG standard. Note that larger sampling factors indicate a higher-resolution component; many people find this behavior quite unintuitive. The default values are 2,2 for luminance components and 1,1 for chrominance components, except for grayscale where 1,1 is used.

int quant_tbl_no
Quantization table number for component. The default value is 0 for luminance components and 1 for chrominance components.

int dc_tbl_no
int ac_tbl_no
DC and AC entropy coding table numbers. The default values are 0 for luminance components and 1 for chrominance components.
int component_index
Must equal the component's index in comp_info[]. (Beginning in release v6, the compressor library will fill this in automatically; you don't have to.)

Decompression parameter selection
---------------------------------

Decompression parameter selection is somewhat simpler than compression parameter selection, since all of the JPEG internal parameters are recorded in the source file and need not be supplied by the application. (Unless you are working with abbreviated files, in which case see "Abbreviated datastreams", below.) Decompression parameters control the postprocessing done on the image to deliver it in a format suitable for the application's use. Many of the parameters control speed/quality tradeoffs, in which faster decompression may be obtained at the price of a poorer-quality image. The defaults select the highest quality (slowest) processing.

The following fields in the JPEG object are set by jpeg_read_header() and may be useful to the application in choosing decompression parameters:

JDIMENSION image_width and height of image
JDIMENSION image_height
int num_components Number of color components
J_COLOR_SPACE jpeg_color_space Color space of image
boolean saw_JFIF_marker TRUE if a JFIF APP0 marker was seen
UINT8 JFIF_major_version Version information from JFIF marker
UINT8 JFIF_minor_version
UINT8 density_unit Resolution data from JFIF marker
UINT16 X_density
UINT16 Y_density
boolean saw_Adobe_marker TRUE if an Adobe APP14 marker was seen
UINT8 Adobe_transform Color transform code from Adobe marker

The JPEG color space, unfortunately, is something of a guess since the JPEG standard proper does not provide a way to record it. In practice most files adhere to the JFIF or Adobe conventions, and the decoder will recognize these correctly. See "Special color spaces", below, for more info.

The decompression parameters that determine the basic properties of the returned image are:

J_COLOR_SPACE out_color_space
Output color space. jpeg_read_header() sets an appropriate default based on jpeg_color_space; typically it will be RGB or grayscale.
The application can change this field to request output in a different colorspace. For example, set it to JCS_GRAYSCALE to get grayscale output from a color file. (This is useful for previewing: grayscale output is faster than full color since the color components need not be processed.) Note that not all possible color space transforms are currently implemented; you may need to extend jdcolor.c if you want an unusual conversion.

unsigned int scale_num, scale_denom
Scale the image by the fraction scale_num/scale_denom. Default is 1/1, or no scaling. Currently, the only supported scaling ratios are M/8 with all M from 1 to 16, or any reduced fraction thereof (such as 1/2, 3/4, etc.) (The library design allows for arbitrary scaling ratios but this is not likely to be implemented any time soon.) Smaller scaling ratios permit significantly faster decoding since fewer pixels need be processed and a simpler IDCT method can be used.

boolean quantize_colors
If set TRUE, colormapped output will be delivered. Default is FALSE, meaning that full-color output will be delivered.

The next three parameters are relevant only if quantize_colors is TRUE.

int desired_number_of_colors
Maximum number of colors to use in generating a library-supplied color map (the actual number of colors is returned in a different field). Default 256. Ignored when the application supplies its own color map.

boolean two_pass_quantize
If TRUE, an extra pass over the image is made to select a custom color map for the image. This usually looks a lot better than the one-size-fits-all colormap that is used otherwise. Default is TRUE. Ignored when the application supplies its own color map.

J_DITHER_MODE dither_mode
Selects color dithering method. Supported values are:
  JDITHER_NONE no dithering: fast, very low quality
  JDITHER_ORDERED ordered dither: moderate speed and quality
  JDITHER_FS Floyd-Steinberg dither: slow, high quality
Default is JDITHER_FS. (At present, ordered dither is implemented only in the single-pass, standard-colormap case. If you ask for ordered dither when two_pass_quantize is TRUE or when you supply an external color map, you’ll get F-S dithering.)

When quantize_colors is TRUE, the target color map is described by the next two fields. colormap is set to NULL by jpeg_read_header(). The application can supply a color map by setting colormap non-NULL and setting actual_number_of_colors to the map size. Otherwise, jpeg_start_decompress()
selects a suitable color map and sets these two fields itself.  
[Implementation restriction: at present, an externally supplied colormap is 
only accepted for 3-component output color spaces.]

JSAMPARRAY colormap
The color map, represented as a 2-D pixel array of out_color_components 
rows and actual_number_of_colors columns.  Ignored if not quantizing.
CAUTION: if the JPEG library creates its own colormap, the storage 
pointed to by this field is released by jpeg_finish_decompress().
Copy the colormap somewhere else first, if you want to save it.

int actual_number_of_colors
The number of colors in the color map.

Additional decompression parameters that the application may set include:

J_DCT_METHOD dct_method
Selects the algorithm used for the DCT step.  Choices are the same 
as described above for compression.

boolean do_fancy_upsampling
If TRUE, do careful upsampling of chroma components.  If FALSE, 
a faster but sloppier method is used.  Default is TRUE.  The visual 
impact of the sloppier method is often very small.

boolean do_block_smoothing
If TRUE, interblock smoothing is applied in early stages of decoding 
progressive JPEG files; if FALSE, not.  Default is TRUE.  Early 
progression stages look "fuzzy" with smoothing, "blocky" without. 
In any case, block smoothing ceases to be applied after the first few 
AC coefficients are known to full accuracy, so it is relevant only 
when using buffered-image mode for progressive images.

boolean enable_1pass_quant
boolean enable_external_quant
boolean enable_2pass_quant
These are significant only in buffered-image mode, which is 
described in its own section below.

The output image dimensions are given by the following fields.  These are 
computed from the source image dimensions and the decompression parameters 
by jpeg_start_decompress().  You can also call jpeg_calc_output_dimensions() 
to obtain the values that will result from the current parameter settings. 
This can be useful if you are trying to pick a scaling ratio that will get 
close to a desired target size.  It's also important if you are using the 
JPEG library's memory manager to allocate output buffer space, because you 
are supposed to request such buffers *before* jpeg_start_decompress().
JDIMENSION output_width

Actual dimensions of output image.

JDIMENSION output_height

int out_color_components

Number of color components in out_color_space.

int output_components

Number of color components returned.

int rec_outbuf_height

Recommended height of scanline buffer.

When quantizing colors, output_components is 1, indicating a single color map index per pixel. Otherwise it equals out_color_components. The output arrays are required to be output_width * output_components JSAMPLEs wide.

rec_outbuf_height is the recommended minimum height (in scanlines) of the buffer passed to jpeg_read_scanlines(). If the buffer is smaller, the library will still work, but time will be wasted due to unnecessary data copying. In high-quality modes, rec_outbuf_height is always 1, but some faster, lower-quality modes set it to larger values (typically 2 to 4). If you are going to ask for a high-speed processing mode, you may as well go to the trouble of honoring rec_outbuf_height so as to avoid data copying. (An output buffer larger than rec_outbuf_height lines is OK, but won't provide any material speed improvement over that height.)

Special color spaces
---------------------

The JPEG standard itself is "color blind" and doesn't specify any particular color space. It is customary to convert color data to a luminance/chrominance color space before compressing, since this permits greater compression. The existing de-facto JPEG file format standards specify YCbCr or grayscale data (JFIF), or grayscale, RGB, YCbCr, CMYK, or YCCK (Adobe). For special applications such as multispectral images, other color spaces can be used, but it must be understood that such files will be unportable.

The JPEG library can handle the most common colorspace conversions (namely RGB <=> YCbCr and CMYK <=> YCCK). It can also deal with data of an unknown color space, passing it through without conversion. If you deal extensively with an unusual color space, you can easily extend the library to understand additional color spaces and perform appropriate conversions.

For compression, the source data's color space is specified by field in_color_space. This is transformed to the JPEG file's color space given by jpeg_color_space. jpeg_set_defaults() chooses a reasonable JPEG color space depending on in_color_space, but you can override this by calling jpeg_set_colorspace(). Of course you must select a supported transformation. jcolor.c currently supports the following transformations:

RGB => YCbCr
RGB => GRAYSCALE
YCbCr => GRAYSCALE
CMYK => YCCK
plus the null transforms: GRAYSCALE =&gt; GRAYSCALE, RGB =&gt; RGB,
YCbCr =&gt; YCbCr, CMYK =&gt; CMYK, YCCK =&gt; YCCK, and UNKNOWN =&gt; UNKNOWN.

The de-facto file format standards (JFIF and Adobe) specify APPn markers that indicate the color space of the JPEG file. It is important to ensure that these are written correctly, or omitted if the JPEG file’s color space is not one of the ones supported by the de-facto standards. jpeg_set_colors() will set the compression parameters to include or omit the APPn markers properly, so long as it is told the truth about the JPEG color space.

For example, if you are writing some random 3-component color space without conversion, don't try to fake out the library by setting in_color_space and jpeg_color_space to JCS_YCbCr; use JCS_UNKNOWN. You may want to write an APPn marker of your own devising to identify the colorspace --- see "Special markers", below.

When told that the color space is UNKNOWN, the library will default to using luminance-quality compression parameters for all color components. You may well want to change these parameters. See the source code for jpeg_set_colorspace(), in jcparam.c, for details.

For decompression, the JPEG file's color space is given in jpeg_color_space, and this is transformed to the output color space out_color_space.

jpeg_read_header's setting of jpeg_color_space can be relied on if the file conforms to JFIF or Adobe conventions, but otherwise it is no better than a guess. If you know the JPEG file's color space for certain, you can override jpeg_read_header's guess by setting jpeg_color_space. jpeg_read_header also selects a default output color space based on (its guess of) jpeg_color_space; set out_color_space to override this. Again, you must select a supported transformation. jdcolor.c currently supports YCbCr =&gt; RGB
YCbCr =&gt; GRAYSCALE
RGB =&gt; GRAYSCALE
GRAYSCALE =&gt; RGB
YCCK =&gt; CMYK
as well as the null transforms. (Since GRAYSCALE=&gt;RGB is provided, an application can force grayscale JPEGs to look like color JPEGs if it only wants to handle one case.)

The two-pass color quantizer, jquant2.c, is specialized to handle RGB data (it weights distances appropriately for RGB colors). You'll need to modify the code if you want to use it for non-RGB output color spaces. Note that jquant2.c is used to map to an application-supplied colormap as well as for the normal two-pass colormap selection process.

CAUTION: it appears that Adobe Photoshop writes inverted data in CMYK JPEG files: 0 represents 100% ink coverage, rather than 0% ink as you'd expect. This is arguably a bug in Photoshop, but if you need to work with Photoshop
CMYK files, you will have to deal with it in your application. We cannot "fix" this in the library by inverting the data during the CMYK<=>YCCK transform, because that would break other applications, notably Ghostscript. Photoshop versions prior to 3.0 write EPS files containing JPEG-encoded CMYK data in the same inverted-YCCK representation used in bare JPEG files, but the surrounding PostScript code performs an inversion using the PS image operator. I am told that Photoshop 3.0 will write uninverted YCCK in EPS/JPEG files, and will omit the PS-level inversion. (But the data polarity used in bare JPEG files will not change in 3.0.) In either case, the JPEG library must not invert the data itself, or else Ghostscript would read these EPS files incorrectly.

Error handling
-------------

When the default error handler is used, any error detected inside the JPEG routines will cause a message to be printed on stderr, followed by exit(). You can supply your own error handling routines to override this behavior and to control the treatment of nonfatal warnings and trace/debug messages. The file example.c illustrates the most common case, which is to have the application regain control after an error rather than exiting.

The JPEG library never writes any message directly; it always goes through the error handling routines. Three classes of messages are recognized:
* Fatal errors: the library cannot continue.
* Warnings: the library can continue, but the data is corrupt, and a damaged output image is likely to result.
* Trace/informational messages. These come with a trace level indicating the importance of the message; you can control the verbosity of the program by adjusting the maximum trace level that will be displayed.

You may, if you wish, simply replace the entire JPEG error handling module (jerror.c) with your own code. However, you can avoid code duplication by only replacing some of the routines depending on the behavior you need. This is accomplished by calling jpeg_std_error() as usual, but then overriding some of the method pointers in the jpeg_error_mgr struct, as illustrated by example.c.

All of the error handling routines will receive a pointer to the JPEG object (a j_common_ptr which points to either a jpeg_compress_struct or a jpeg_decompress_struct; if you need to tell which, test the is_decompressor field). This struct includes a pointer to the error manager struct in its "err" field. Frequently, custom error handler routines will need to access additional data which is not known to the JPEG library or the standard error handler. The most convenient way to do this is to embed either the JPEG object or the jpeg_error_mgr struct in a larger structure that contains additional fields; then casting the passed pointer provides access to the
additional fields. Again, see example.c for one way to do it. (Beginning with IJG version 6b, there is also a void pointer "client_data" in each JPEG object, which the application can also use to find related data. The library does not touch client_data at all.)

The individual methods that you might wish to override are:

**error_exit (j_common_ptr cinfo)**
Receives control for a fatal error. Information sufficient to generate the error message has been stored in cinfo->err; call output_message to display it. Control must NOT return to the caller; generally this routine will exit() or longjmp() somewhere. Typically you would override this routine to get rid of the exit() default behavior. Note that if you continue processing, you should clean up the JPEG object with jpeg_abort() or jpeg_destroy().

**output_message (j_common_ptr cinfo)**
Actual output of any JPEG message. Override this to send messages somewhere other than stderr. Note that this method does not know how to generate a message, only where to send it.

**format_message (j_common_ptr cinfo, char * buffer)**
Constructs a readable error message string based on the error info stored in cinfo->err. This method is called by output_message. Few applications should need to override this method. One possible reason for doing so is to implement dynamic switching of error message language.

**emit_message (j_common_ptr cinfo, int msg_level)**
Decide whether or not to emit a warning or trace message; if so, calls output_message. The main reason for overriding this method would be to abort on warnings. msg_level is -1 for warnings, 0 and up for trace messages.

Only error_exit() and emit_message() are called from the rest of the JPEG library; the other two are internal to the error handler.

The actual message texts are stored in an array of strings which is pointed to by the field err->jpeg_message_table. The messages are numbered from 0 to err->last_jpeg_message, and it is these code numbers that are used in the JPEG library code. You could replace the message texts (for instance, with messages in French or German) by changing the message table pointer. See jerror.h for the default texts. CAUTION: this table will almost certainly change or grow from one library version to the next.

It may be useful for an application to add its own message texts that are handled by the same mechanism. The error handler supports a second "add-on" message table for this purpose. To define an addon table, set the pointer...
err->addon_message_table and the message numbers err->first_addon_message and
err->last_addon_message. If you number the addon messages beginning at 1000
or so, you won't have to worry about conflicts with the library's built-in
messages. See the sample applications cjpeg/djpeg for an example of using
addon messages (the addon messages are defined in cderror.h).

Actual invocation of the error handler is done via macros defined in jerror.h:
ERREXITn(...) for fatal errors
WARNMSn(...) for corrupt-data warnings
TRACEMSn(...) for trace and informational messages.
These macros store the message code and any additional parameters into the
error handler struct, then invoke the error_exit() or emit_message() method.
The variants of each macro are for varying numbers of additional parameters.
The additional parameters are inserted into the generated message using
standard printf() format codes.

See jerror.h and jerror.c for further details.

Compressed data handling (source and destination managers)
------------------------------------------------------------

The JPEG compression library sends its compressed data to a "destination
manager" module. The default destination manager just writes the data to a
memory buffer or to a stdio stream, but you can provide your own manager to
do something else. Similarly, the decompression library calls a "source
manager" to obtain the compressed data; you can provide your own source
manager if you want the data to come from somewhere other than a memory
buffer or a stdio stream.

In both cases, compressed data is processed a bufferload at a time: the
destination or source manager provides a work buffer, and the library invokes
the manager only when the buffer is filled or emptied. (You could define a
one-character buffer to force the manager to be invoked for each byte, but
that would be rather inefficient.) The buffer's size and location are
controlled by the manager, not by the library. For example, the memory
source manager just makes the buffer pointer and length point to the original
data in memory. In this case the buffer-reload procedure will be invoked
only if the decompressor ran off the end of the datastream, which would
indicate an erroneous datastream.

The work buffer is defined as an array of datatype JOCTET, which is generally
"char" or "unsigned char". On a machine where char is not exactly 8 bits
wide, you must define JOCTET as a wider data type and then modify the data
source and destination modules to transcribe the work arrays into 8-bit units
on external storage.

A data destination manager struct contains a pointer and count defining the
next byte to write in the work buffer and the remaining free space:

JOCTET * next_output_byte;  /* => next byte to write in buffer */
size_t free_in_buffer;      /* # of byte spaces remaining in buffer */

The library increments the pointer and decrements the count until the buffer is filled. The manager's empty_output_buffer method must reset the pointer and count. The manager is expected to remember the buffer's starting address and total size in private fields not visible to the library.

A data destination manager provides three methods:

init_destination (j_compress_ptr cinfo)
Initialize destination. This is called by jpeg_start_compress() before any data is actually written. It must initialize next_output_byte and free_in_buffer. free_in_buffer must be initialized to a positive value.

empty_output_buffer (j_compress_ptr cinfo)
This is called whenever the buffer has filled (free_in_buffer reaches zero). In typical applications, it should write out the *entire* buffer (use the saved start address and buffer length; ignore the current state of next_output_byte and free_in_buffer). Then reset the pointer & count to the start of the buffer, and return TRUE indicating that the buffer has been dumped. free_in_buffer must be set to a positive value when TRUE is returned. A FALSE return should only be used when I/O suspension is desired (this operating mode is discussed in the next section).

term_destination (j_compress_ptr cinfo)
Terminate destination --- called by jpeg_finish_compress() after all data has been written. In most applications, this must flush any data remaining in the buffer. Use either next_output_byte or free_in_buffer to determine how much data is in the buffer.

term_destination() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the destination manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_destination_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "dest" field of the JPEG compression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_dest() or jpeg_mem_dest() routines of the supplied destination managers.

Decompression source managers follow a parallel design, but with some additional frammishes. The source manager struct contains a pointer and count
defining the next byte to read from the work buffer and the number of bytes
remaining:

    const JOCTET * next_input_byte; /* => next byte to read from buffer */
    size_t bytes_in_buffer;          /* # of bytes remaining in buffer */

The library increments the pointer and decrements the count until the buffer
is emptied. The manager's fill_input_buffer method must reset the pointer and
count. In most applications, the manager must remember the buffer’s starting
address and total size in private fields not visible to the library.

A data source manager provides five methods:

    init_source (j_decompress_ptr cinfo)
    Initialize source. This is called by jpeg_read_header() before any
data is actually read. Unlike init_destination(), it may leave
bytes_in_buffer set to 0 (in which case a fill_input_buffer() call
will occur immediately).

    fill_input_buffer (j_decompress_ptr cinfo)
    This is called whenever bytes_in_buffer has reached zero and more
data is wanted. In typical applications, it should read fresh data
into the buffer (ignoring the current state of next_input_byte and
bytes_in_buffer), reset the pointer & count to the start of the
buffer, and return TRUE indicating that the buffer has been reloaded.
It is not necessary to fill the buffer entirely, only to obtain at
least one more byte. bytes_in_buffer MUST be set to a positive value
if TRUE is returned. A FALSE return should only be used when I/O
suspension is desired (this mode is discussed in the next section).

    skip_input_data (j_decompress_ptr cinfo, long num_bytes)
    Skip num_bytes worth of data. The buffer pointer and count should
be advanced over num_bytes input bytes, refilling the buffer as
needed. This is used to skip over a potentially large amount of
uninteresting data (such as an APPn marker). In some applications
it may be possible to optimize away the reading of the skipped data,
but it's not clear that being smart is worth much trouble; large
skips are uncommon. bytes_in_buffer may be zero on return.
A zero or negative skip count should be treated as a no-op.

    resync_to_restart (j_decompress_ptr cinfo, int desired)
    This routine is called only when the decompressor has failed to find
a restart (RSTn) marker where one is expected. Its mission is to
find a suitable point for resuming decompression. For most
applications, we recommend that you just use the default resync
procedure, jpeg_resync_to_restart(). However, if you are able to back
up in the input data stream, or if you have a-priori knowledge about
the likely location of restart markers, you may be able to do better.
Read the read_restart_marker() and jpeg_resync_to_restart() routines in jdmarker.c if you think you'd like to implement your own resync procedure.

term_source (j_decompress_ptr cinfo)
Terminate source --- called by jpeg_finish_decompress() after all data has been read. Often a no-op.

For both fill_input_buffer() and skip_input_data(), there is no such thing as an EOF return. If the end of the file has been reached, the routine has a choice of exiting via ERREXIT() or inserting fake data into the buffer. In most cases, generating a warning message and inserting a fake EOI marker is the best course of action --- this will allow the decompressor to output however much of the image is there. In pathological cases, the decompressor may swallow the EOI and again demand data ... just keep feeding it fake EOI.s. jdatasrc.c illustrates the recommended error recovery behavior.

term_source() is NOT called by jpeg_abort() or jpeg_destroy(). If you want the source manager to be cleaned up during an abort, you must do it yourself.

You will also need code to create a jpeg_source_mgr struct, fill in its method pointers, and insert a pointer to the struct into the "src" field of the JPEG decompression object. This can be done in-line in your setup code if you like, but it's probably cleaner to provide a separate routine similar to the jpeg_stdio_src() or jpeg_mem_src() routines of the supplied source managers.

For more information, consult the memory and stdio source and destination managers in jdatasrc.c and jdatadst.c.

I/O suspension
-------------

Some applications need to use the JPEG library as an incremental memory-to-memory filter: when the compressed data buffer is filled or emptied, they want control to return to the outer loop, rather than expecting that the buffer can be emptied or reloaded within the data source/destination manager subroutine. The library supports this need by providing an "I/O suspension" mode, which we describe in this section.

The I/O suspension mode is not a panacea: nothing is guaranteed about the maximum amount of time spent in any one call to the library, so it will not eliminate response-time problems in single-threaded applications. If you need guaranteed response time, we suggest you "bite the bullet" and implement a real multi-tasking capability.

To use I/O suspension, cooperation is needed between the calling application and the data source or destination manager; you will always need a custom
source/destination manager. (Please read the previous section if you haven't already.) The basic idea is that the empty_output_buffer() or fill_input_buffer() routine is a no-op, merely returning FALSE to indicate that it has done nothing. Upon seeing this, the JPEG library suspends operation and returns to its caller. The surrounding application is responsible for emptying or refilling the work buffer before calling the JPEG library again.

Compression suspension:

For compression suspension, use an empty_output_buffer() routine that returns FALSE; typically it will not do anything else. This will cause the compressor to return to the caller of jpeg_write_scanlines(), with the return value indicating that not all the supplied scanlines have been accepted. The application must make more room in the output buffer, adjust the output buffer pointer/count appropriately, and then call jpeg_write_scanlines() again, pointing to the first unconsumed scanline.

When forced to suspend, the compressor will backtrack to a convenient stopping point (usually the start of the current MCU); it will regenerate some output data when restarted. Therefore, although empty_output_buffer() is only called when the buffer is filled, you should NOT write out the entire buffer after a suspension. Write only the data up to the current position of next_output_byte/free_in_buffer. The data beyond that point will be regenerated after resumption.

Because of the backtracking behavior, a good-size output buffer is essential for efficiency; you don't want the compressor to suspend often. (In fact, an overly small buffer could lead to infinite looping, if a single MCU required more data than would fit in the buffer.) We recommend a buffer of at least several Kbytes. You may want to insert explicit code to ensure that you don't call jpeg_write_scanlines() unless there is a reasonable amount of space in the output buffer; in other words, flush the buffer before trying to compress more data.

The compressor does not allow suspension while it is trying to write JPEG markers at the beginning and end of the file. This means that:

* At the beginning of a compression operation, there must be enough free space in the output buffer to hold the header markers (typically 600 or so bytes). The recommended buffer size is bigger than this anyway, so this is not a problem as long as you start with an empty buffer. However, this restriction might catch you if you insert large special markers, such as a JFIF thumbnail image, without flushing the buffer afterwards.

* When you call jpeg_finish_compress(), there must be enough space in the output buffer to emit any buffered data and the final EOI marker. In the current implementation, half a dozen bytes should suffice for this, but for safety's sake we recommend ensuring that at least 100 bytes are free before calling jpeg_finish_compress().
A more significant restriction is that jpeg_finish_compress() cannot suspend. This means you cannot use suspension with multi-pass operating modes, namely Huffman code optimization and multiple-scan output. Those modes write the whole file during jpeg_finish_compress(), which will certainly result in buffer overrun. (Note that this restriction applies only to compression, not decompression. The decompressor supports input suspension in all of its operating modes.)

Decompression suspension:

For decompression suspension, use a fill_input_buffer() routine that simply returns FALSE (except perhaps during error recovery, as discussed below). This will cause the decompressor to return to its caller with an indication that suspension has occurred. This can happen at four places:
* jpeg_read_header(): will return JPEG_SUSPENDED.
* jpeg_start_decompress(): will return FALSE, rather than its usual TRUE.
* jpeg_read_scanlines(): will return the number of scanlines already completed (possibly 0).
* jpeg_finish_decompress(): will return FALSE, rather than its usual TRUE.
The surrounding application must recognize these cases, load more data into the input buffer, and repeat the call. In the case of jpeg_read_scanlines(), increment the passed pointers past any scanlines successfully read.

Just as with compression, the decompressor will typically backtrack to a convenient restart point before suspending. When fill_input_buffer() is called, next_input_byte/bytes_in_buffer point to the current restart point, which is where the decompressor will backtrack to if FALSE is returned. The data beyond that position must NOT be discarded if you suspend; it needs to be re-read upon resumption. In most implementations, you'll need to shift this data down to the start of your work buffer and then load more data after it. Again, this behavior means that a several-Kbyte work buffer is essential for decent performance; furthermore, you should load a reasonable amount of new data before resuming decompression. (If you loaded, say, only one new byte each time around, you could waste a LOT of cycles.)

The skip_input_data() source manager routine requires special care in a suspension scenario. This routine is NOT granted the ability to suspend the decompressor; it can decrement bytes_in_buffer to zero, but no more. If the requested skip distance exceeds the amount of data currently in the input buffer, then skip_input_data() must set bytes_in_buffer to zero and record the additional skip distance somewhere else. The decompressor will immediately call fill_input_buffer(), which should return FALSE, which will cause a suspension return. The surrounding application must then arrange to discard the recorded number of bytes before it resumes loading the input buffer. (Yes, this design is rather baroque, but it avoids complexity in the far more common case where a non-suspending source manager is used.)
If the input data has been exhausted, we recommend that you emit a warning and insert dummy EOI markers just as a non-suspending data source manager would do. This can be handled either in the surrounding application logic or within fill_input_buffer(); the latter is probably more efficient. If fill_input_buffer() knows that no more data is available, it can set the pointer/count to point to a dummy EOI marker and then return TRUE just as though it had read more data in a non-suspending situation.

The decompressor does not attempt to suspend within standard JPEG markers; instead it will backtrack to the start of the marker and reprocess the whole marker next time. Hence the input buffer must be large enough to hold the longest standard marker in the file. Standard JPEG markers should normally not exceed a few hundred bytes each (DHT tables are typically the longest). We recommend at least a 2K buffer for performance reasons, which is much larger than any correct marker is likely to be. For robustness against damaged marker length counts, you may wish to insert a test in your application for the case that the input buffer is completely full and yet the decoder has suspended without consuming any data --- otherwise, if this situation did occur, it would lead to an endless loop. (The library can't provide this test since it has no idea whether "the buffer is full", or even whether there is a fixed-size input buffer.)

The input buffer would need to be 64K to allow for arbitrary COM or APPn markers, but these are handled specially: they are either saved into allocated memory, or skipped over by calling skip_input_data(). In the former case, suspension is handled correctly, and in the latter case, the problem of buffer overrun is placed on skip_input_data's shoulders, as explained above. Note that if you provide your own marker handling routine for large markers, you should consider how to deal with buffer overflow.

Multiple-buffer management:

In some applications it is desirable to store the compressed data in a linked list of buffer areas, so as to avoid data copying. This can be handled by having empty_output_buffer() or fill_input_buffer() set the pointer and count to reference the next available buffer; FALSE is returned only if no more buffers are available. Although seemingly straightforward, there is a pitfall in this approach: the backtrack that occurs when FALSE is returned could back up into an earlier buffer. For example, when fill_input_buffer() is called, the current pointer & count indicate the backtrack restart point. Since fill_input_buffer() will set the pointer and count to refer to a new buffer, the restart position must be saved somewhere else. Suppose a second call to fill_input_buffer() occurs in the same library call, and no additional input data is available, so fill_input_buffer must return FALSE. If the JPEG library has not moved the pointer/count forward in the current buffer, then *the correct restart point is the saved position in the prior buffer*. Prior buffers may be discarded only after the library establishes a restart point within a later buffer. Similar remarks apply for output into
a chain of buffers.

The library will never attempt to backtrack over a skip_input_data() call, so any skipped data can be permanently discarded. You still have to deal with the case of skipping not-yet-received data, however.

It's much simpler to use only a single buffer; when fill_input_buffer() is called, move any unconsumed data (beyond the current pointer/count) down to the beginning of this buffer and then load new data into the remaining buffer space. This approach requires a little more data copying but is far easier to get right.

Progressive JPEG support
------------------------

Progressive JPEG rearranges the stored data into a series of scans of increasing quality. In situations where a JPEG file is transmitted across a slow communications link, a decoder can generate a low-quality image very quickly from the first scan, then gradually improve the displayed quality as more scans are received. The final image after all scans are complete is identical to that of a regular (sequential) JPEG file of the same quality setting. Progressive JPEG files are often slightly smaller than equivalent sequential JPEG files, but the possibility of incremental display is the main reason for using progressive JPEG.

The IJG encoder library generates progressive JPEG files when given a suitable "scan script" defining how to divide the data into scans. Creation of progressive JPEG files is otherwise transparent to the encoder. Progressive JPEG files can also be read transparently by the decoder library. If the decoding application simply uses the library as defined above, it will receive a final decoded image without any indication that the file was progressive. Of course, this approach does not allow incremental display. To perform incremental display, an application needs to use the decoder library's "buffered-image" mode, in which it receives a decoded image multiple times.

Each displayed scan requires about as much work to decode as a full JPEG image of the same size, so the decoder must be fairly fast in relation to the data transmission rate in order to make incremental display useful. However, it is possible to skip displaying the image and simply add the incoming bits to the decoder's coefficient buffer. This is fast because only Huffman decoding need be done, not IDCT, upsampling, colorspace conversion, etc. The IJG decoder library allows the application to switch dynamically between displaying the image and simply absorbing the incoming bits. A properly coded application can automatically adapt the number of display passes to suit the time available as the image is received. Also, a final higher-quality display cycle can be performed from the buffered data after
the end of the file is reached.

Progressive compression:

To create a progressive JPEG file (or a multiple-scan sequential JPEG file), set the scan_info cinfo field to point to an array of scan descriptors, and perform compression as usual. Instead of constructing your own scan list, you can call the jpeg_simple_progression() helper routine to create a recommended progression sequence; this method should be used by all applications that don't want to get involved in the nitty-gritty of progressive scan sequence design. (If you want to provide user control of scan sequences, you may wish to borrow the scan script reading code found in rdswitch.c, so that you can read scan script files just like cjpeg's.) When scan_info is not NULL, the compression library will store DCT'd data into a buffer array as jpeg_write_scanlines() is called, and will emit all the requested scans during jpeg_finish_compress(). This implies that multiple-scan output cannot be created with a suspending data destination manager, since jpeg_finish_compress() does not support suspension. We should also note that the compressor currently forces Huffman optimization mode when creating a progressive JPEG file, because the default Huffman tables are unsuitable for progressive files.

Progressive decompression:

When buffered-image mode is not used, the decoder library will read all of a multi-scan file during jpeg_start_decompress(), so that it can provide a final decoded image. (Here "multi-scan" means either progressive or multi-scan sequential.) This makes multi-scan files transparent to the decoding application. However, existing applications that used suspending input with version 5 of the IJG library will need to be modified to check for a suspension return from jpeg_start_decompress().

To perform incremental display, an application must use the library's buffered-image mode. This is described in the next section.

Buffered-image mode

In buffered-image mode, the library stores the partially decoded image in a coefficient buffer, from which it can be read out as many times as desired. This mode is typically used for incremental display of progressive JPEG files, but it can be used with any JPEG file. Each scan of a progressive JPEG file adds more data (more detail) to the buffered image. The application can display in lockstep with the source file (one display pass per input scan), or it can allow input processing to outrun display processing. By making input and display processing run independently, it is possible for the application to adapt progressive display to a wide range of data transmission
The basic control flow for buffered-image decoding is

```
jpeg_create_decompress()
set data source
jpeg_read_header()
set overall decompression parameters
cinfo.buffered_image = TRUE; /* select buffered-image mode */
jpeg_start_decompress()
for (each output pass) {
    adjust output decompression parameters if required
    jpeg_start_output() /* start a new output pass */
    for (all scanlines in image) {
        jpeg_read_scanlines()
        display scanlines
    }
    jpeg_finish_output() /* terminate output pass */
}
jpeg_finish_decompress()
jpeg_destroy_decompress()
```

This differs from ordinary unbuffered decoding in that there is an additional level of looping. The application can choose how many output passes to make and how to display each pass.

The simplest approach to displaying progressive images is to do one display pass for each scan appearing in the input file. In this case the outer loop condition is typically

```
while (! jpeg_input_complete(&cinfo))
```

and the start-output call should read

```
jpeg_start_output(&cinfo, cinfo.input_scan_number);
```

The second parameter to jpeg_start_output() indicates which scan of the input file is to be displayed; the scans are numbered starting at 1 for this purpose. (You can use a loop counter starting at 1 if you like, but using the library's input scan counter is easier.) The library automatically reads data as necessary to complete each requested scan, and jpeg_finish_output() advances to the next scan or end-of-image marker (hence input_scan_number will be incremented by the time control arrives back at jpeg_start_output()).

With this technique, data is read from the input file only as needed, and input and output processing run in lockstep.

After reading the final scan and reaching the end of the input file, the buffered image remains available; it can be read additional times by repeating the jpeg_start_output()/jpeg_read_scanlines()/jpeg_finish_output() sequence. For example, a useful technique is to use fast one-pass color quantization for display passes made while the image is arriving, followed by a final display pass using two-pass quantization for highest quality. This
is done by changing the library parameters before the final output pass.
Changing parameters between passes is discussed in detail below.

In general the last scan of a progressive file cannot be recognized as such
until after it is read, so a post-input display pass is the best approach if
you want special processing in the final pass.

When done with the image, be sure to call jpeg_finish_decompress() to release
the buffered image (or just use jpeg_destroy_decompress()).

If input data arrives faster than it can be displayed, the application can
cause the library to decode input data in advance of what's needed to produce output. This is done by calling the routine jpeg_consume_input().
The return value is one of the following:
JPEG_REACHED_SOS:    reached an SOS marker (the start of a new scan)
JPEG_REACHED_EOI:    reached the EOI marker (end of image)
JPEG_ROW_COMPLETED:  completed reading one MCU row of compressed data
JPEG_SCAN_COMPLETED: completed reading last MCU row of current scan
JPEG_SUSPENDED:      suspended before completing any of the above
(JPEG_SUSPENDED can occur only if a suspending data source is used.) This routine can be called at any time after initializing the JPEG object. It reads some additional data and returns when one of the indicated significant events occurs. (If called after the EOI marker is reached, it will immediately return JPEG_REACHED_EOI without attempting to read more data.)

The library's output processing will automatically call jpeg_consume_input() whenever the output processing overtakes the input; thus, simple lockstep display requires no direct calls to jpeg_consume_input(). But by adding calls to jpeg_consume_input(), you can absorb data in advance of what is being displayed. This has two benefits:
* You can limit buildup of unprocessed data in your input buffer.
* You can eliminate extra display passes by paying attention to the state of the library's input processing.

The first of these benefits only requires interspersing calls to jpeg_consume_input() with your display operations and any other processing you may be doing. To avoid wasting cycles due to backtracking, it's best to call jpeg_consume_input() only after a hundred or so new bytes have arrived. This is discussed further under "I/O suspension", above. (Note: the JPEG library currently is not thread-safe. You must not call jpeg_consume_input() from one thread of control if a different library routine is working on the same JPEG object in another thread.)

When input arrives fast enough that more than one new scan is available before you start a new output pass, you may as well skip the output pass corresponding to the completed scan. This occurs for free if you pass cinfo.input_scan_number as the target scan number to jpeg_start_output(). The input_scan_number field is simply the index of the scan currently being
consumed by the input processor. You can ensure that this is up-to-date by emptying the input buffer just before calling jpeg_start_output(): call jpeg_consume_input() repeatedly until it returns JPEG_SUSPENDED or JPEG_REACHED_EOI.

The target scan number passed to jpeg_start_output() is saved in the cinfo.output_scan_number field. The library’s output processing calls jpeg_consume_input() whenever the current input scan number and row within that scan is less than or equal to the current output scan number and row. Thus, input processing can "get ahead" of the output processing but is not allowed to "fall behind". You can achieve several different effects by manipulating this interlock rule. For example, if you pass a target scan number greater than the current input scan number, the output processor will wait until that scan starts to arrive before producing any output. (To avoid an infinite loop, the target scan number is automatically reset to the last scan number when the end of image is reached. Thus, if you specify a large target scan number, the library will just absorb the entire input file and then perform an output pass. This is effectively the same as what jpeg_start_decompress() does when you don't select buffered-image mode.) When you pass a target scan number equal to the current input scan number, the image is displayed no faster than the current input scan arrives. The final possibility is to pass a target scan number less than the current input scan number; this disables the input/output interlock and causes the output processor to simply display whatever it finds in the image buffer, without waiting for input. (However, the library will not accept a target scan number less than one, so you can't avoid waiting for the first scan.)

When data is arriving faster than the output display processing can advance through the image, jpeg_consume_input() will store data into the buffered image beyond the point at which the output processing is reading data out again. If the input arrives fast enough, it may "wrap around" the buffer to the point where the input is more than one whole scan ahead of the output. If the output processing simply proceeds through its display pass without paying attention to the input, the effect seen on-screen is that the lower part of the image is one or more scans better in quality than the upper part. Then, when the next output scan is started, you have a choice of what target scan number to use. The recommended choice is to use the current input scan number at that time, which implies that you've skipped the output scans corresponding to the input scans that were completed while you processed the previous output scan. In this way, the decoder automatically adapts its speed to the arriving data, by skipping output scans as necessary to keep up with the arriving data.

When using this strategy, you'll want to be sure that you perform a final output pass after receiving all the data; otherwise your last display may not be full quality across the whole screen. So the right outer loop logic is something like this:

do {

absorb any waiting input by calling jpeg_consume_input()
final_pass = jpeg_input_complete(&cinfo);
adjust output decompression parameters if required
jpeg_start_output(&cinfo, cinfo.input_scan_number);
...
jpeg_finish_output()
} while (! final_pass);

rather than quitting as soon as jpeg_input_complete() returns TRUE. This arrangement makes it simple to use higher-quality decoding parameters for the final pass. But if you don't want to use special parameters for the final pass, the right loop logic is like this:
for (;;) {
    absorb any waiting input by calling jpeg_consume_input()
    jpeg_start_output(&cinfo, cinfo.input_scan_number);
    ...
    jpeg_finish_output()
    if (jpeg_input_complete(&cinfo) &&
        cinfo.input_scan_number == cinfo.output_scan_number)
        break;
}

In this case you don't need to know in advance whether an output pass is to be the last one, so it's not necessary to have reached EOF before starting the final output pass; rather, what you want to test is whether the output pass was performed in sync with the final input scan. This form of the loop will avoid an extra output pass whenever the decoder is able (or nearly able) to keep up with the incoming data.

When the data transmission speed is high, you might begin a display pass, then find that much or all of the file has arrived before you can complete the pass. (You can detect this by noting the JPEG_REACHED_EOI return code from jpeg_consume_input(), or equivalently by testing jpeg_input_complete().)
In this situation you may wish to abort the current display pass and start a new one using the newly arrived information. To do so, just call jpeg_finish_output() and then start a new pass with jpeg_start_output().

A variant strategy is to abort and restart display if more than one complete scan arrives during an output pass; this can be detected by noting JPEG_REACHED_SOS returns and/or examining cinfo.input_scan_number. This idea should be employed with caution, however, since the display process might never get to the bottom of the image before being aborted, resulting in the lower part of the screen being several passes worse than the upper.
In most cases it's probably best to abort an output pass only if the whole file has arrived and you want to begin the final output pass immediately.

When receiving data across a communication link, we recommend always using the current input scan number for the output target scan number; if a higher-quality final pass is to be done, it should be started (aborting any incomplete output pass) as soon as the end of file is received. However,
many other strategies are possible. For example, the application can examine
the parameters of the current input scan and decide whether to display it or
not. If the scan contains only chroma data, one might choose not to use it
as the target scan, expecting that the scan will be small and will arrive
quickly. To skip to the next scan, call jpeg_consume_input() until it
returns JPEG_REACHED_SOS or JPEG_REACHED_EOI. Or just use the next higher
number as the target scan for jpeg_start_output(); but that method doesn't
let you inspect the next scan's parameters before deciding to display it.

In buffered-image mode, jpeg_start_decompress() never performs input and
thus never suspends. An application that uses input suspension with
buffered-image mode must be prepared for suspension returns from these
routines:
* jpeg_start_output() performs input only if you request 2-pass quantization
and the target scan isn't fully read yet. (This is discussed below.)
* jpeg_read_scanlines(), as always, returns the number of scanlines that it
was able to produce before suspending.
* jpeg_finish_output() will read any markers following the target scan,
up to the end of the file or the SOS marker that begins another scan.
(But it reads no input if jpeg_consume_input() has already reached
the end of the file or a SOS marker beyond the target output scan.)
* jpeg_finish_decompress() will read until the end of file, and thus can
suspend if the end hasn't already been reached (as can be tested by
calling jpeg_input_complete()).
jpeg_start_output(), jpeg_finish_output(), and jpeg_finish_decompress()
all return TRUE if they completed their tasks, FALSE if they had to suspend.
In the event of a FALSE return, the application must load more input data
and repeat the call. Applications that use non-suspending data sources need
not check the return values of these three routines.

It is possible to change decoding parameters between output passes in the
buffered-image mode. The decoder library currently supports only very
limited changes of parameters. ONLY THE FOLLOWING parameter changes are
allowed after jpeg_start_decompress() is called:
* dct_method can be changed before each call to jpeg_start_output().
  For example, one could use a fast DCT method for early scans, changing
to a higher quality method for the final scan.
* dither_mode can be changed before each call to jpeg_start_output();
of course this has no impact if not using color quantization. Typically
one would use ordered dither for initial passes, then switch to
Floyd-Steinberg dither for the final pass. Caution: changing dither mode
can cause more memory to be allocated by the library. Although the amount
of memory involved is not large (a scanline or so), it may cause the
initial max_memory_to_use specification to be exceeded, which in the worst
case would result in an out-of-memory failure.
* do_block_smoothing can be changed before each call to jpeg_start_output().
This setting is relevant only when decoding a progressive JPEG image. During the first DC-only scan, block smoothing provides a very "fuzzy" look instead of the very "blocky" look seen without it; which is better seems a matter of personal taste. But block smoothing is nearly always a win during later stages, especially when decoding a successive-approximation image: smoothing helps to hide the slight blockiness that otherwise shows up on smooth gradients until the lowest coefficient bits are sent.

* Color quantization mode can be changed under the rules described below. You *cannot* change between full-color and quantized output (because that would alter the required I/O buffer sizes), but you can change which quantization method is used.

When generating color-quantized output, changing quantization method is a very useful way of switching between high-speed and high-quality display. The library allows you to change among its three quantization methods:

1. Single-pass quantization to a fixed color cube.
   Selected by cinfo.two_pass_quantize = FALSE and cinfo.colormap = NULL.
2. Single-pass quantization to an application-supplied colormap.
   Selected by setting cinfo.colormap to point to the colormap (the value of two_pass_quantize is ignored); also set cinfo.actual_number_of_colors.
3. Two-pass quantization to a colormap chosen specifically for the image.
   Selected by cinfo.two_pass_quantize = TRUE and cinfo.colormap = NULL.
   (This is the default setting selected by jpeg_read_header, but it is probably NOT what you want for the first pass of progressive display!)

These methods offer successively better quality and lesser speed. However, only the first method is available for quantizing in non-RGB color spaces.

IMPORTANT: because the different quantizer methods have very different working-storage requirements, the library requires you to indicate which one(s) you intend to use before you call jpeg_start_decompress(). (If we did not require this, the max_memory_to_use setting would be a complete fiction.)

You do this by setting one or more of these three cinfo fields to TRUE:

- enable_1pass_quant
  Fixed color cube colormap
- enable_external_quant
  Externally-supplied colormap
- enable_2pass_quant
  Two-pass custom colormap

All three are initialized FALSE by jpeg_read_header(). But jpeg_start_decompress() automatically sets TRUE the one selected by the current two_pass_quantize and colormap settings, so you only need to set the enable flags for any other quantization methods you plan to change to later.

After setting the enable flags correctly at jpeg_start_decompress() time, you can change to any enabled quantization method by setting two_pass_quantize and colormap properly just before calling jpeg_start_output(). The following special rules apply:

1. You must explicitly set cinfo.colormap to NULL when switching to 1-pass or 2-pass mode from a different mode, or when you want the 2-pass quantizer to be re-run to generate a new colormap.
2. To switch to an external colormap, or to change to a different external
 colormap than was used on the prior pass, you must call
jpeg_new_colormap() after setting cinfo.colormap.

NOTE: if you want to use the same colormap as was used in the prior pass, you should not do either of these things. This will save some nontrivial switchover costs.

(These requirements exist because cinfo.colormap will always be non-NULL after completing a prior output pass, since both the 1-pass and 2-pass quantizers set it to point to their output colormaps. Thus you have to do one of these two things to notify the library that something has changed. Yup, it's a bit klugy, but it's necessary to do it this way for backwards compatibility.)

Note that in buffered-image mode, the library generates any requested colormap during jpeg_start_output(), not during jpeg_start_decompress().

When using two-pass quantization, jpeg_start_output() makes a pass over the buffered image to determine the optimum color map; it therefore may take a significant amount of time, whereas ordinarily it does little work. The progress monitor hook is called during this pass, if defined. It is also important to realize that if the specified target scan number is greater than or equal to the current input scan number, jpeg_start_output() will attempt to consume input as it makes this pass. If you use a suspending data source, you need to check for a FALSE return from jpeg_start_output() under these conditions. The combination of 2-pass quantization and a not-yet-fully-read target scan is the only case in which jpeg_start_output() will consume input.

Application authors who support buffered-image mode may be tempted to use it for all JPEG images, even single-scan ones. This will work, but it is inefficient: there is no need to create an image-sized coefficient buffer for single-scan images. Requesting buffered-image mode for such an image wastes memory. Worse, it can cost time on large images, since the buffered data has to be swapped out or written to a temporary file. If you are concerned about maximum performance on baseline JPEG files, you should use buffered-image mode only when the incoming file actually has multiple scans. This can be tested by calling jpeg_has_multiple_scans(), which will return a correct result at any time after jpeg_read_header() completes.

It is also worth noting that when you use jpeg_consume_input() to let input processing get ahead of output processing, the resulting pattern of access to the coefficient buffer is quite nonsequential. It's best to use the memory manager jmembobs.c if you can (ie, if you have enough real or virtual main memory). If not, at least make sure that max_memory_to_use is set as high as possible. If the JPEG memory manager has to use a temporary file, you will probably see a lot of disk traffic and poor performance. (This could be improved with additional work on the memory manager, but we haven't gotten around to it yet.)
In some applications it may be convenient to use jpeg_consume_input() for all input processing, including reading the initial markers; that is, you may wish to call jpeg_consume_input() instead of jpeg_read_header() during startup. This works, but note that you must check for JPEG_REACHED_SOS and JPEG_REACHED_EOI return codes as the equivalent of jpeg_read_header's codes. Once the first SOS marker has been reached, you must call jpeg_start_decompress() before jpeg_consume_input() will consume more input; it'll just keep returning JPEG_REACHED_SOS until you do. If you read a tables-only file this way, jpeg_consume_input() will return JPEG_REACHED_EOI without ever returning JPEG_REACHED_SOS; be sure to check for this case. If this happens, the decompressor will not read any more input until you call jpeg_abort() to reset it. It is OK to call jpeg_consume_input() even when not using buffered-image mode, but in that case it's basically a no-op after the initial markers have been read: it will just return JPEG_SUSPENDED.

Abbreviated datastreams and multiple images
-------------------------------------------

A JPEG compression or decompression object can be reused to process multiple images. This saves a small amount of time per image by eliminating the "create" and "destroy" operations, but that isn't the real purpose of the feature. Rather, reuse of an object provides support for abbreviated JPEG datastreams. Object reuse can also simplify processing a series of images in a single input or output file. This section explains these features.

A JPEG file normally contains several hundred bytes worth of quantization and Huffman tables. In a situation where many images will be stored or transmitted with identical tables, this may represent an annoying overhead. The JPEG standard therefore permits tables to be omitted. The standard defines three classes of JPEG datastreams:
* "Interchange" datastreams contain an image and all tables needed to decode the image. These are the usual kind of JPEG file.
* "Abbreviated image" datastreams contain an image, but are missing some or all of the tables needed to decode that image.
* "Abbreviated table specification" (henceforth "tables-only") datastreams contain only table specifications.

To decode an abbreviated image, it is necessary to load the missing table(s) into the decoder beforehand. This can be accomplished by reading a separate tables-only file. A variant scheme uses a series of images in which the first image is an interchange (complete) datastream, while subsequent ones are abbreviated and rely on the tables loaded by the first image. It is assumed that once the decoder has read a table, it will remember that table until a new definition for the same table number is encountered.

It is the application designer's responsibility to figure out how to associate the correct tables with an abbreviated image. While abbreviated datastreams can be useful in a closed environment, their use is strongly discouraged in
any situation where data exchange with other applications might be needed. Caveat designer.

The JPEG library provides support for reading and writing any combination of tables-only datastreams and abbreviated images. In both compression and decompression objects, a quantization or Huffman table will be retained for the lifetime of the object, unless it is overwritten by a new table definition.

To create abbreviated image datastreams, it is only necessary to tell the compressor not to emit some or all of the tables it is using. Each quantization and Huffman table struct contains a boolean field "sent_table", which normally is initialized to FALSE. For each table used by the image, the header-writing process emits the table and sets sent_table = TRUE unless it is already TRUE. (In normal usage, this prevents outputting the same table definition multiple times, as would otherwise occur because the chroma components typically share tables.) Thus, setting this field to TRUE before calling jpeg_start_compress() will prevent the table from being written at all.

If you want to create a "pure" abbreviated image file containing no tables, just call "jpegSuppressTables(&cinfo, TRUE)" after constructing all the tables. If you want to emit some but not all tables, you'll need to set the individual sent_table fields directly.

To create an abbreviated image, you must also call jpeg_start_compress() with a second parameter of FALSE, not TRUE. Otherwise jpeg_start_compress() will force all the sent_table fields to FALSE. (This is a safety feature to prevent abbreviated images from being created accidentally.)

To create a tables-only file, perform the same parameter setup that you normally would, but instead of calling jpeg_start_compress() and so on, call jpeg_write_tables(&cinfo). This will write an abbreviated datastream containing only SOI, DQT and/or DHT markers, and EOI. All the quantization and Huffman tables that are currently defined in the compression object will be emitted unless their sent_tables flag is already TRUE, and then all the sent_tables flags will be set TRUE.

A sure-fire way to create matching tables-only and abbreviated image files is to proceed as follows:

create JPEG compression object
set JPEG parameters
set destination to tables-only file
jpeg_write_tables(&cinfo);
set destination to image file
jpeg_start_compress(&cinfo, FALSE);
write data...
jpeg_finish_compress(&cinfo);

Since the JPEG parameters are not altered between writing the table file and the abbreviated image file, the same tables are sure to be used. Of course, you can repeat the jpeg_start_compress() ... jpeg_finish_compress() sequence many times to produce many abbreviated image files matching the table file.

You cannot suppress output of the computed Huffman tables when Huffman optimization is selected. (If you could, there'd be no way to decode the image...) Generally, you don't want to set optimize_coding = TRUE when you are trying to produce abbreviated files.

In some cases you might want to compress an image using tables which are not stored in the application, but are defined in an interchange or tables-only file readable by the application. This can be done by setting up a JPEG decompression object to read the specification file, then copying the tables into your compression object. See jpeg_copy_critical_parameters() for an example of copying quantization tables.

To read abbreviated image files, you simply need to load the proper tables into the decompression object before trying to read the abbreviated image. If the proper tables are stored in the application program, you can just allocate the table structs and fill in their contents directly. For example, to load a fixed quantization table into table slot "n":

```c
if (cinfo.quant_tbl_ptrs[n] == NULL)  
cinfo.quant_tbl_ptrs[n] = jpeg_alloc_quant_table((j_common_ptr) &cinfo);
quant_ptr = cinfo.quant_tbl_ptrs[n]; /* quant_ptr is JQUANT_TBL* */
for (i = 0; i < 64; i++) {
    /* Qtable[] is desired quantization table, in natural array order */
    quant_ptr->quantval[i] = Qtable[i];
}
```

Code to load a fixed Huffman table is typically (for AC table "n"):

```c
if (cinfo.ac_huff_tbl_ptrs[n] == NULL)  
cinfo.ac_huff_tbl_ptrs[n] = jpeg_alloc_huff_table((j_common_ptr) &cinfo);
huff_ptr = cinfo.ac_huff_tbl_ptrs[n]; /* huff_ptr is JHUFF_TBL* */
for (i = 1; i <= 16; i++) {
    /* counts[i] is number of Huffman codes of length i bits, i=1..16 */
    huff_ptr->bits[i] = counts[i];
}
for (i = 0; i < 256; i++) {
    /* symbols[] is the list of Huffman symbols, in code-length order */
    huff_ptr->huffval[i] = symbols[i];
}
(Note that trying to set cinfo.quant_tbl_ptrs[n] to point directly at a constant JQUANT_TBL object is not safe. If the incoming file happened to contain a quantization table definition, your master table would get overwritten! Instead allocate a working table copy and copy the master table into it, as illustrated above. Ditto for Huffman tables, of course.)

You might want to read the tables from a tables-only file, rather than hard-wiring them into your application. The jpeg_read_header() call is sufficient to read a tables-only file. You must pass a second parameter of FALSE to indicate that you do not require an image to be present. Thus, the typical scenario is

create JPEG decompression object
set source to tables-only file
jpeg_read_header(&cinfo, FALSE);
set source to abbreviated image file
jpeg_read_header(&cinfo, TRUE);
set decompression parameters
jpeg_start_decompress(&cinfo);
read data...
jpeg_finish_decompress(&cinfo);

In some cases, you may want to read a file without knowing whether it contains an image or just tables. In that case, pass FALSE and check the return value from jpeg_read_header(): it will be JPEG_HEADER_OK if an image was found, JPEG_HEADER_TABLES_ONLY if only tables were found. (A third return value, JPEG_SUSPENDED, is possible when using a suspending data source manager.) Note that jpeg_read_header() will not complain if you read an abbreviated image for which you haven't loaded the missing tables; the missing-table check occurs later, in jpeg_start_decompress().

It is possible to read a series of images from a single source file by repeating the jpeg_read_header() ... jpeg_finish_decompress() sequence, without releasing/recreating the JPEG object or the data source module. (If you did reinitialize, any partial bufferload left in the data source buffer at the end of one image would be discarded, causing you to lose the start of the next image.) When you use this method, stored tables are automatically carried forward, so some of the images can be abbreviated images that depend on tables from earlier images.

If you intend to write a series of images into a single destination file, you might want to make a specialized data destination module that doesn't flush the output buffer at term_destination() time. This would speed things up by some trifling amount. Of course, you'd need to remember to flush the buffer after the last image. You can make the later images be abbreviated ones by passing FALSE to jpeg_start_compress().
Special markers

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

Some applications may need to insert or extract special data in the JPEG datastream. The JPEG standard provides marker types "COM" (comment) and "APP0" through "APP15" (application) to hold application-specific data. Unfortunately, the use of these markers is not specified by the standard. COM markers are fairly widely used to hold user-supplied text. The JFIF file format spec uses APP0 markers with specified initial strings to hold certain data. Adobe applications use APP14 markers beginning with the string "Adobe" for miscellaneous data. Other APPn markers are rarely seen, but might contain almost anything.

If you wish to store user-supplied text, we recommend you use COM markers and place readable 7-bit ASCII text in them. Newline conventions are not standardized -- expect to find LF (Unix style), CR/LF (DOS style), or CR (Mac style). A robust COM reader should be able to cope with random binary garbage, including nulls, since some applications generate COM markers containing non-ASCII junk. (But yours should not be one of them.)

For program-supplied data, use an APPn marker, and be sure to begin it with an identifying string so that you can tell whether the marker is actually yours. It's probably best to avoid using APP0 or APP14 for any private markers. (NOTE: the upcoming SPIFF standard will use APP8 markers; we recommend you not use APP8 markers for any private purposes, either.)

Keep in mind that at most 65533 bytes can be put into one marker, but you can have as many markers as you like.

By default, the IJG compression library will write a JFIF APP0 marker if the selected JPEG colorspace is grayscale or YCbCr, or an Adobe APP14 marker if the selected colorspace is RGB, CMYK, or YCCK. You can disable this, but we don't recommend it. The decompression library will recognize JFIF and Adobe markers and will set the JPEG colorspace properly when one is found.

You can write special markers immediately following the datastream header by calling jpeg_write_marker() after jpeg_start_compress() and before the first call to jpeg_write_scanlines(). When you do this, the markers appear after the SOI and the JFIF APP0 and Adobe APP14 markers (if written), but before all else. Specify the marker type parameter as "JPEG_COM" for COM or "JPEG_APP0 + n" for APPn. (Actually, jpeg_write_marker will let you write any marker type, but we don't recommend writing any other kinds of marker.) For example, to write a user comment string pointed to by comment_text:

```
jpeg_write_marker(cinfo, JPEG_COM, comment_text, strlen(comment_text));
```

If it's not convenient to store all the marker data in memory at once,
you can instead call jpeg_write_m_header() followed by multiple calls to jpeg_write_m_byte(). If you do it this way, it's your responsibility to call jpeg_write_m_byte() exactly the number of times given in the length parameter to jpeg_write_m_header(). (This method lets you empty the output buffer partway through a marker, which might be important when using a suspending data destination module. In any case, if you are using a suspending destination, you should flush its buffer after inserting any special markers. See "I/O suspension".)

Or, if you prefer to synthesize the marker byte sequence yourself, you can just cram it straight into the data destination module.

If you are writing JFIF 1.02 extension markers (thumbnail images), don't forget to set cinfo.JFIF_minor_version = 2 so that the encoder will write the correct JFIF version number in the JFIF header marker. The library's default is to write version 1.01, but that's wrong if you insert any 1.02 extension markers. (We could probably get away with just defaulting to 1.02, but there used to be broken decoders that would complain about unknown minor version numbers. To reduce compatibility risks it's safest not to write 1.02 unless you are actually using 1.02 extensions.)

When reading, two methods of handling special markers are available:
1. You can ask the library to save the contents of COM and/or APPn markers into memory, and then examine them at your leisure afterwards.
2. You can supply your own routine to process COM and/or APPn markers on-the-fly as they are read.

The first method is simpler to use, especially if you are using a suspending data source; writing a marker processor that copes with input suspension is not easy (consider what happens if the marker is longer than your available input buffer). However, the second method conserves memory since the marker data need not be kept around after it's been processed.

For either method, you'd normally set up marker handling after creating a decompression object and before calling jpeg_read_header(), because the markers of interest will typically be near the head of the file and so will be scanned by jpeg_read_header. Once you've established a marker handling method, it will be used for the life of that decompression object (potentially many datastreams), unless you change it. Marker handling is determined separately for COM markers and for each APPn marker code.

To save the contents of special markers in memory, call jpeg_save_markers(cinfo, marker_code, length_limit) where marker_code is the marker type to save, JPEG_COM or JPEG_APP0+n. (To arrange to save all the special marker types, you need to call this routine 17 times, for COM and APP0-APP15.) If the incoming marker is longer than length_limit data bytes, only length_limit bytes will be saved; this
parameter allows you to avoid chewing up memory when you only need to see the first few bytes of a potentially large marker. If you want to save all the data, set length_limit to 0xFFFF; that is enough since marker lengths are only 16 bits. As a special case, setting length_limit to 0 prevents that marker type from being saved at all. (That is the default behavior, in fact.)

After jpeg_read_header() completes, you can examine the special markers by following the cinfo->marker_list pointer chain. All the special markers in the file appear in this list, in order of their occurrence in the file (but omitting any markers of types you didn't ask for). Both the original data length and the saved data length are recorded for each list entry; the latter will not exceed length_limit for the particular marker type. Note that these lengths exclude the marker length word, whereas the stored representation within the JPEG file includes it. (Hence the maximum data length is really only 65533.)

It is possible that additional special markers appear in the file beyond the SOS marker at which jpeg_read_header stops; if so, the marker list will be extended during reading of the rest of the file. This is not expected to be common, however. If you are short on memory you may want to reset the length limit to zero for all marker types after finishing jpeg_read_header, to ensure that the max_memory_to_use setting cannot be exceeded due to addition of later markers.

The marker list remains stored until you call jpeg_finish_decompress or jpeg_abort, at which point the memory is freed and the list is set to empty. (jpeg_destroy also releases the storage, of course.)

Note that the library is internally interested in APP0 and APP14 markers; if you try to set a small nonzero length limit on these types, the library will silently force the length up to the minimum it wants. (But you can set a zero length limit to prevent them from being saved at all.) Also, in a 16-bit environment, the maximum length limit may be constrained to less than 65533 by malloc() limitations. It is therefore best not to assume that the effective length limit is exactly what you set it to be.

If you want to supply your own marker-reading routine, you do it by calling jpeg_set_marker_processor(). A marker processor routine must have the signature
boolean jpeg_marker_parser_method (j_decompress_ptr cinfo)
Although the marker code is not explicitly passed, the routine can find it in cinfo->unread_marker. At the time of call, the marker proper has been read from the data source module. The processor routine is responsible for reading the marker length word and the remaining parameter bytes, if any. Return TRUE to indicate success. (FALSE should be returned only if you are using a suspending data source and it tells you to suspend. See the standard marker processors in jdmarker.c for appropriate coding methods if you need to
use a suspending data source.)

If you override the default APP0 or APP14 processors, it is up to you to recognize JFIF and Adobe markers if you want colorspace recognition to occur properly. We recommend copying and extending the default processors if you want to do that. (A better idea is to save these marker types for later examination by calling jpeg_save_markers(); that method doesn't interfere with the library's own processing of these markers.)

jpeg_set_marker_processor() and jpeg_save_markers() are mutually exclusive --- if you call one it overrides any previous call to the other, for the particular marker type specified.

A simple example of an external COM processor can be found in djpeg.c. Also, see jpegtran.c for an example of using jpeg_save_markers.

Raw (downsampled) image data
----------------------------

Some applications need to supply already-downsampled image data to the JPEG compressor, or to receive raw downsampled data from the decompressor. The library supports this requirement by allowing the application to write or read raw data, bypassing the normal preprocessing or postprocessing steps. The interface is different from the standard one and is somewhat harder to use. If your interest is merely in bypassing color conversion, we recommend that you use the standard interface and simply set jpeg_color_space = in_color_space (or jpeg_color_space = out_color_space for decompression). The mechanism described in this section is necessary only to supply or receive downsampled image data, in which not all components have the same dimensions.

To compress raw data, you must supply the data in the colorspace to be used in the JPEG file (please read the earlier section on Special color spaces) and downsampled to the sampling factors specified in the JPEG parameters. You must supply the data in the format used internally by the JPEG library, namely a JSAMPIMAGE array. This is an array of pointers to two-dimensional arrays, each of type JSAMPARRAY. Each 2-D array holds the values for one color component. This structure is necessary since the components are of different sizes. If the image dimensions are not a multiple of the MCU size, you must also pad the data correctly (usually, this is done by replicating the last column and/or row). The data must be padded to a multiple of a DCT block in each component: that is, each downsampled row must contain a multiple of 8 valid samples, and there must be a multiple of 8 sample rows for each component. (For applications such as conversion of digital TV images, the standard image size is usually a multiple of the DCT block size, so that no padding need actually be done.)
The procedure for compression of raw data is basically the same as normal compression, except that you call jpeg_write_raw_data() in place of jpeg_write_scanlines(). Before calling jpeg_start_compress(), you must do the following:

* Set cinfo->raw_data_in to TRUE. (It is set FALSE by jpeg_set_defaults().) This notifies the library that you will be supplying raw data.

* Ensure jpeg_color_space is correct --- an explicit jpeg_set_colorspace() call is a good idea. Note that since color conversion is bypassed, in_color_space is ignored, except that jpeg_set_defaults() uses it to choose the default jpeg_color_space setting.

* Ensure the sampling factors, cinfo->comp_info[i].h_samp_factor and cinfo->comp_info[i].v_samp_factor, are correct. Since these indicate the dimensions of the data you are supplying, it's wise to set them explicitly, rather than assuming the library's defaults are what you want.

To pass raw data to the library, call jpeg_write_raw_data() in place of jpeg_write_scanlines(). The two routines work similarly except that jpeg_write_raw_data takes a JSAMPIMAGE data array rather than JSAMPARRAY. The scanlines count passed to and returned from jpeg_write_raw_data is measured in terms of the component with the largest v_samp_factor.

jpeg_write_raw_data() processes one MCU row per call, which is to say v_samp_factor*DCTSIZE sample rows of each component. The passed num_lines value must be at least max_v_samp_factor*DCTSIZE, and the return value will be exactly that amount (or possibly some multiple of that amount, in future library versions). This is true even on the last call at the bottom of the image; don't forget to pad your data as necessary.

The required dimensions of the supplied data can be computed for each component as

\[
cinfo->comp_info[i].width_in_blocks*DCTSIZE \text{ samples per row}
\]

\[
cinfo->comp_info[i].height_in_blocks*DCTSIZE \text{ rows in image}
\]

after jpeg_start_compress() has initialized those fields. If the valid data is smaller than this, it must be padded appropriately. For some sampling factors and image sizes, additional dummy DCT blocks are inserted to make the image a multiple of the MCU dimensions. The library creates such dummy blocks itself; it does not read them from your supplied data. Therefore you need never pad by more than DCTSIZE samples. An example may help here. Assume 2h2v downsampling of YCbCr data, that is

\[
cinfo->comp_info[0].h_samp_factor = 2 \text{ for } Y
\]

\[
cinfo->comp_info[0].v_samp_factor = 2
\]

\[
cinfo->comp_info[1].h_samp_factor = 1 \text{ for } Cb
\]

\[
cinfo->comp_info[1].v_samp_factor = 1
\]

\[
cinfo->comp_info[2].h_samp_factor = 1 \text{ for } Cr
\]

\[
cinfo->comp_info[2].v_samp_factor = 1
\]

and suppose that the nominal image dimensions (cinfo->image_width and cinfo->image_height) are 101x101 pixels. Then jpeg_start_compress() will
compute downsampling_width = 101 and width_in_blocks = 13 for Y, downsampling_width = 51 and width_in_blocks = 7 for Cb and Cr (and the same for the height fields). You must pad the Y data to at least 13*8 = 104 columns and rows, the Cb/Cr data to at least 7*8 = 56 columns and rows. The MCU height is max_v_samp_factor = 2 DCT rows so you must pass at least 16 scanlines on each call to jpeg_write_raw_data(), which is to say 16 actual sample rows of Y and 8 each of Cb and Cr. A total of 7 MCU rows are needed, so you must pass a total of 7*16 = 112 "scanlines". The last DCT block row of Y data is dummy, so it doesn't matter what you pass for it in the data arrays, but the scanlines count must total up to 112 so that all of the Cb and Cr data gets passed.

Output suspension is supported with raw-data compression: if the data destination module suspends, jpeg_write_raw_data() will return 0. In this case the same data rows must be passed again on the next call.

Decompression with raw data output implies bypassing all postprocessing: you cannot ask for rescaling or color quantization, for instance. More seriously, you must deal with the color space and sampling factors present in the incoming file. If your application only handles, say, 2h1v YCbCr data, you must check for and fail on other color spaces or other sampling factors. The library will not convert to a different color space for you.

To obtain raw data output, set cinfo->raw_data_out = TRUE before jpeg_start_decompress() (it is set FALSE by jpeg_read_header()). Be sure to verify that the color space and sampling factors are ones you can handle. Then call jpeg_read_raw_data() in place of jpeg_read_scanlines(). The decompression process is otherwise the same as usual.

jpeg_read_raw_data() returns one MCU row per call, and thus you must pass a buffer of at least max_v_samp_factor*DCTSIZE scanlines (scanline counting is the same as for raw-data compression). The buffer you pass must be large enough to hold the actual data plus padding to DCT-block boundaries. As with compression, any entirely dummy DCT blocks are not processed so you need not allocate space for them, but the total scanline count includes them. The above example of computing buffer dimensions for raw-data compression is equally valid for decompression.

Input suspension is supported with raw-data decompression: if the data source module suspends, jpeg_read_raw_data() will return 0. You can also use buffered-image mode to read raw data in multiple passes.

Really raw data: DCT coefficients
-----------------------------------

It is possible to read or write the contents of a JPEG file as raw DCT
coefficients. This facility is mainly intended for use in lossless transcoding between different JPEG file formats. Other possible applications include lossless cropping of a JPEG image, lossless reassembly of a multi-strip or multi-tile TIFF/JPEG file into a single JPEG datastream, etc.

To read the contents of a JPEG file as DCT coefficients, open the file and do jpeg_read_header() as usual. But instead of calling jpeg_start_decompress() and jpeg_read_scanlines(), call jpeg_read_coefficients(). This will read the entire image into a set of virtual coefficient-block arrays, one array per component. The return value is a pointer to an array of virtual-array descriptors. Each virtual array can be accessed directly using the JPEG memory manager's access_virt_barray method (see Memory management, below, and also read structure.txt's discussion of virtual array handling). Or, for simple transcoding to a different JPEG file format, the array list can just be handed directly to jpeg_write_coefficients().

Each block in the block arrays contains quantized coefficient values in normal array order (not JPEG zigzag order). The block arrays contain only DCT blocks containing real data; any entirely-dummy blocks added to fill out interleaved MCUs at the right or bottom edges of the image are discarded during reading and are not stored in the block arrays. (The size of each block array can be determined from the width_in_blocks and height_in_blocks fields of the component's comp_info entry.) This is also the data format expected by jpeg_write_coefficients().

When you are done using the virtual arrays, call jpeg_finish_decompress() to release the array storage and return the decompression object to an idle state; or just call jpeg_destroy() if you don't need to reuse the object.

If you use a suspending data source, jpeg_read_coefficients() will return NULL if it is forced to suspend; a non-NULL return value indicates successful completion. You need not test for a NULL return value when using a non-suspending data source.

It is also possible to call jpeg_read_coefficients() to obtain access to the decoder's coefficient arrays during a normal decode cycle in buffered-image mode. This frammish might be useful for progressively displaying an incoming image and then re-encoding it without loss. To do this, decode in buffered-image mode as discussed previously, then call jpeg_read_coefficients() after the last jpeg_finish_output() call. The arrays will be available for your use until you call jpeg_finish_decompress().

To write the contents of a JPEG file as DCT coefficients, you must provide the DCT coefficients stored in virtual block arrays. You can either pass block arrays read from an input JPEG file by jpeg_read_coefficients(), or allocate virtual arrays from the JPEG compression object and fill them yourself. In either case, jpeg_write_coefficients() is substituted for
jpeg_start_compress() and jpeg_write_scanlines(). Thus the sequence is
* Create compression object
* Set all compression parameters as necessary
* Request virtual arrays if needed
* jpeg_write_coefficients()
* jpeg_finish_compress()
* Destroy or re-use compression object
jpeg_write_coefficients() is passed a pointer to an array of virtual block
array descriptors; the number of arrays is equal to cinfo.num_components.

The virtual arrays need only have been requested, not realized, before
jpeg_write_coefficients() is called. A side-effect of
jpeg_write_coefficients() is to realize any virtual arrays that have been
requested from the compression object's memory manager. Thus, when obtaining
the virtual arrays from the compression object, you should fill the arrays
after calling jpeg_write_coefficients(). The data is actually written out
when you call jpeg_finish_compress(); jpeg_write_coefficients() only writes
the file header.

When writing raw DCT coefficients, it is crucial that the JPEG quantization
tables and sampling factors match the way the data was encoded, or the
resulting file will be invalid. For transcoding from an existing JPEG file,
we recommend using jpeg_copy_critical_parameters(). This routine initializes
all the compression parameters to default values (like jpeg_set_defaults()),
then copies the critical information from a source decompression object.
The decompression object should have just been used to read the entire
JPEG input file --- that is, it should be awaiting jpeg_finish_decompress().

jpeg_write_coefficients() marks all tables stored in the compression object
as needing to be written to the output file (thus, it acts like
jpeg_start_compress(cinfo, TRUE)). This is for safety's sake, to avoid
emitting abbreviated JPEG files by accident. If you really want to emit an
abbreviated JPEG file, call jpegSuppress_tables(), or set the tables'
individual sent_table flags, between calling jpeg_write_coefficients() and
jpeg_finish_compress().

Progress monitoring
---------------------

Some applications may need to regain control from the JPEG library every so
often. The typical use of this feature is to produce a percent-done bar or
other progress display. (For a simple example, see cjpe.c or djpeg.c.)
Although you do get control back frequently during the data-transferring pass
(the jpeg_read_scanlines or jpeg_write_scanlines loop), any additional passes
will occur inside jpeg_finish_compress or jpeg_start_decompress; those
routines may take a long time to execute, and you don't get control back
until they are done.
You can define a progress-monitor routine which will be called periodically by the library. No guarantees are made about how often this call will occur, so we don’t recommend you use it for mouse tracking or anything like that. At present, a call will occur once per MCU row, scanline, or sample row group, whichever unit is convenient for the current processing mode; so the wider the image, the longer the time between calls. During the data transferring pass, only one call occurs per call of jpeg_read_scanlines or jpeg_write_scanlines, so don’t pass a large number of scanlines at once if you want fine resolution in the progress count. (If you really need to use the callback mechanism for time-critical tasks like mouse tracking, you could insert additional calls inside some of the library’s inner loops.)

To establish a progress-monitor callback, create a struct jpeg_progress_mgr, fill in its progress_monitor field with a pointer to your callback routine, and set cinfo->progress to point to the struct. The callback will be called whenever cinfo->progress is non-NULL. (This pointer is set to NULL by jpeg_create_compress or jpeg_create_decompress; the library will not change it thereafter. So if you allocate dynamic storage for the progress struct, make sure it will live as long as the JPEG object does. Allocating from the JPEG memory manager with lifetime JPOOL_PERMANENT will work nicely.) You can use the same callback routine for both compression and decompression.

The jpeg_progress_mgr struct contains four fields which are set by the library:

- long pass_counter;/* work units completed in this pass */
- long pass_limit;/* total number of work units in this pass */
- int completed_passes;/* passes completed so far */
- int total_passes;/* total number of passes expected */

During any one pass, pass_counter increases from 0 up to (not including) pass_limit; the step size is usually but not necessarily 1. The pass_limit value may change from one pass to another. The expected total number of passes is in total_passes, and the number of passes already completed is in completed_passes. Thus the fraction of work completed may be estimated as

\[
\frac{\text{completed\_passes}}{\text{total\_passes}} + \frac{\text{pass\_counter}}{\text{pass\_limit}}
\]

ignoring the fact that the passes may not be equal amounts of work.

When decompressing, pass_limit can even change within a pass, because it depends on the number of scans in the JPEG file, which isn’t always known in advance. The computed fraction-of-work-done may jump suddenly (if the library discovers it has overestimated the number of scans) or even decrease (in the opposite case). It is not wise to put great faith in the work estimate.

When using the decompressor’s buffered-image mode, the progress monitor work estimate is likely to be completely unhelpful, because the library has no way to know how many output passes will be demanded of it. Currently, the library sets total_passes based on the assumption that there will be one more output.
pass if the input file end hasn't yet been read (jpeg_input_complete() isn't TRUE), but no more output passes if the file end has been reached when the output pass is started. This means that total_passes will rise as additional output passes are requested. If you have a way of determining the input file size, estimating progress based on the fraction of the file that's been read will probably be more useful than using the library's value.

Memory management
------------------

This section covers some key facts about the JPEG library's built-in memory manager. For more info, please read structure.txt's section about the memory manager, and consult the source code if necessary.

All memory and temporary file allocation within the library is done via the memory manager. If necessary, you can replace the "back end" of the memory manager to control allocation yourself (for example, if you don't want the library to use malloc() and free() for some reason).

Some data is allocated "permanently" and will not be freed until the JPEG object is destroyed. Most data is allocated "per image" and is freed by jpeg_finish_compress, jpeg_finish_decompress, or jpeg_abort. You can call the memory manager yourself to allocate structures that will automatically be freed at these times. Typical code for this is

```c
ptr = (*cinfo->mem->alloc_small) ((j_common_ptr) cinfo, JPOOL_IMAGE, size);
```

Use JPOOL_PERMANENT to get storage that lasts as long as the JPEG object. Use alloc_large instead of alloc_small for anything bigger than a few Kbytes. There are also alloc_sarray and alloc_barray routines that automatically build 2-D sample or block arrays.

The library's minimum space requirements to process an image depend on the image's width, but not on its height, because the library ordinarily works with "strip" buffers that are as wide as the image but just a few rows high. Some operating modes (eg, two-pass color quantization) require full-image buffers. Such buffers are treated as "virtual arrays": only the current strip need be in memory, and the rest can be swapped out to a temporary file.

If you use the simplest memory manager back end (jmemnobs.c), then no temporary files are used; virtual arrays are simply malloc()’d. Images bigger than memory can be processed only if your system supports virtual memory. The other memory manager back ends support temporary files of various flavors and thus work in machines without virtual memory. They may also be useful on Unix machines if you need to process images that exceed available swap space.

When using temporary files, the library will make the in-memory buffers for its virtual arrays just big enough to stay within a "maximum memory" setting. Your application can set this limit by setting cinfo->mem->max_memory_to_use
after creating the JPEG object. (Of course, there is still a minimum size for the buffers, so the max-memory setting is effective only if it is bigger than the minimum space needed.) If you allocate any large structures yourself, you must allocate them before jpeg_start_compress() or jpeg_start_decompress() in order to have them counted against the max memory limit. Also keep in mind that space allocated with alloc_small() is ignored, on the assumption that it's too small to be worth worrying about; so a reasonable safety margin should be left when setting max_memory_to_use.

If you use the jmemname.c or jmemdos.c memory manager back end, it is important to clean up the JPEG object properly to ensure that the temporary files get deleted. (This is especially crucial with jmemdos.c, where the "temporary files" may be extended-memory segments; if they are not freed, DOS will require a reboot to recover the memory.) Thus, with these memory managers, it's a good idea to provide a signal handler that will trap any early exit from your program. The handler should call either jpeg_abort() or jpeg_destroy() for any active JPEG objects. A handler is not needed with jmemnobs.c, and shouldn't be necessary with jmemansi.c or jmemmac.c either, since the C library is supposed to take care of deleting files made with tmpfile().

Memory usage
-------------

Working memory requirements while performing compression or decompression depend on image dimensions, image characteristics (such as colorspace and JPEG process), and operating mode (application-selected options).

As of v6b, the decompressor requires:
1. About 24K in more-or-less-fixed-size data. This varies a bit depending on operating mode and image characteristics (particularly color vs. grayscale), but it doesn't depend on image dimensions.
2. Strip buffers (of size proportional to the image width) for IDCT and upsampling results. The worst case for commonly used sampling factors is about 34 bytes * width in pixels for a color image. A grayscale image only needs about 8 bytes per pixel column.
3. A full-image DCT coefficient buffer is needed to decode a multi-scan JPEG file (including progressive JPEGs), or whenever you select buffered-image mode. This takes 2 bytes/coefficient. At typical 2x2 sampling, that's 3 bytes per pixel for a color image. Worst case (1x1 sampling) requires 6 bytes/pixel. For grayscale, figure 2 bytes/pixel.
4. To perform 2-pass color quantization, the decompressor also needs a 128K color lookup table and a full-image pixel buffer (3 bytes/pixel). This does not count any memory allocated by the application, such as a buffer to hold the final output image.

The above figures are valid for 8-bit JPEG data precision and a machine with
32-bit ints. For 12-bit JPEG data, double the size of the strip buffers and quantization pixel buffer. The "fixed-size" data will be somewhat smaller with 16-bit ints, larger with 64-bit ints. Also, CMYK or other unusual color spaces will require different amounts of space.

The full-image coefficient and pixel buffers, if needed at all, do not have to be fully RAM resident; you can have the library use temporary files instead when the total memory usage would exceed a limit you set. (But if your OS supports virtual memory, it's probably better to just use jmemnobs and let the OS do the swapping.)

The compressor's memory requirements are similar, except that it has no need for color quantization. Also, it needs a full-image DCT coefficient buffer if Huffman-table optimization is asked for, even if progressive mode is not requested.

If you need more detailed information about memory usage in a particular situation, you can enable the MEM_STATS code in jmemmgr.c.

Library compile-time options
----------------------------
A number of compile-time options are available by modifying jmorecfg.h.

The JPEG standard provides for both the baseline 8-bit DCT process and a 12-bit DCT process. The IJG code supports 12-bit lossy JPEG if you define BITS_IN_JSAMPLE as 12 rather than 8. Note that this causes JSAMPLE to be larger than a char, so it affects the surrounding application's image data. The sample applications cjpeg and djpeg can support 12-bit mode only for PPM and GIF file formats; you must disable the other file formats to compile a 12-bit cjpeg or djpeg. (install.txt has more information about that.)

At present, a 12-bit library can handle *only* 12-bit images, not both precisions. (If you need to include both 8- and 12-bit libraries in a single application, you could probably do it by defining NEED_SHORT_EXTERNAL_NAMES for just one of the copies. You'd have to access the 8-bit and 12-bit copies from separate application source files. This is untested ... if you try it, we'd like to hear whether it works!)

Note that a 12-bit library always compresses in Huffman optimization mode, in order to generate valid Huffman tables. This is necessary because our default Huffman tables only cover 8-bit data. If you need to output 12-bit files in one pass, you'll have to supply suitable default Huffman tables. You may also want to supply your own DCT quantization tables; the existing quality-scaling code has been developed for 8-bit use, and probably doesn't generate especially good tables for 12-bit.

The maximum number of components (color channels) in the image is determined
by MAX_COMPONENTS. The JPEG standard allows up to 255 components, but we expect that few applications will need more than four or so.

On machines with unusual data type sizes, you may be able to improve performance or reduce memory space by tweaking the various typedefs in jmorecfg.h. In particular, on some RISC CPUs, access to arrays of "short"s is quite slow; consider trading memory for speed by making JCOEF, INT16, and UINT16 be "int" or "unsigned int". UINT8 is also a candidate to become int. You probably don't want to make JSAMPLE be int unless you have lots of memory to burn.

You can reduce the size of the library by compiling out various optional functions. To do this, undefine xxx_SUPPORTED symbols as necessary.

You can also save a few K by not having text error messages in the library; the standard error message table occupies about 5Kb. This is particularly reasonable for embedded applications where there's no good way to display a message anyway. To do this, remove the creation of the message table (jpeg_std_message_table[]) from jerror.c, and alter format_message to do something reasonable without it. You could output the numeric value of the message code number, for example. If you do this, you can also save a couple more K by modifying the TRACEMSn() macros in jerror.h to expand to nothing; you don't need trace capability anyway, right?

Portability considerations
--------------------------

The JPEG library has been written to be extremely portable; the sample applications cjpeg and djpeg are slightly less so. This section summarizes the design goals in this area. (If you encounter any bugs that cause the library to be less portable than is claimed here, we'd appreciate hearing about them.)

The code works fine on ANSI C, C++, and pre-ANSI C compilers, using any of the popular system include file setups, and some not-so-popular ones too. See install.txt for configuration procedures.

The code is not dependent on the exact sizes of the C data types. As distributed, we make the assumptions that
charis at least 8 bits wide
shortis at least 16 bits wide
intis at least 16 bits wide
longis at least 32 bits wide
(These are the minimum requirements of the ANSI C standard.) Wider types will work fine, although memory may be used inefficiently if char is much larger than 8 bits or short is much bigger than 16 bits. The code should work equally well with 16- or 32-bit ints.
In a system where these assumptions are not met, you may be able to make the code work by modifying the typedefs in jmorecfg.h. However, you will probably have difficulty if int is less than 16 bits wide, since references to plain int abound in the code.

char can be either signed or unsigned, although the code runs faster if an unsigned char type is available. If char is wider than 8 bits, you will need to redefine JOCTET and/or provide custom data source/destination managers so that JOCTET represents exactly 8 bits of data on external storage.

The JPEG library proper does not assume ASCII representation of characters. But some of the image file I/O modules in cjpeg/djpeg do have ASCII dependencies in file-header manipulation; so does cjpeg's select_file_type() routine.

The JPEG library does not rely heavily on the C library. In particular, C stdio is used only by the data source/destination modules and the error handler, all of which are application-replaceable. (cjpeg/djpeg are more heavily dependent on stdio.) malloc and free are called only from the memory manager "back end" module, so you can use a different memory allocator by replacing that one file.

The code generally assumes that C names must be unique in the first 15 characters. However, global function names can be made unique in the first 6 characters by defining NEED_SHORT_EXTERNAL_NAMES.

More info about porting the code may be gleaned by reading jconfig.txt, jmorecfg.h, and jinclude.h.

Notes for MS-DOS implementors
---------------------------------

The IJG code is designed to work efficiently in 80x86 "small" or "medium" memory models (i.e., data pointers are 16 bits unless explicitly declared "far"; code pointers can be either size). You may be able to use small model to compile cjpeg or djpeg by itself, but you will probably have to use medium model for any larger application. This won't make much difference in performance. You *will* take a noticeable performance hit if you use a large-data memory model (perhaps 10%-25%), and you should avoid "huge" model if at all possible.

The JPEG library typically needs 2Kb-3Kb of stack space. It will also malloc about 20K-30K of near heap space while executing (and lots of far heap, but that doesn't count in this calculation). This figure will vary depending on selected operating mode, and to a lesser extent on image size. There is also about 5Kb-6Kb of constant data which will be allocated in the
near data segment (about 4Kb of this is the error message table). Thus you have perhaps 20K available for other modules' static data and near heap space before you need to go to a larger memory model. The C library's static data will account for several K of this, but that still leaves a good deal for your needs. (If you are tight on space, you could reduce the sizes of the I/O buffers allocated by jdatasrc.c and jdatadst.c, say from 4K to 1K. Another possibility is to move the error message table to far memory; this should be doable with only localized hacking on jerror.c.)

About 2K of the near heap space is "permanent" memory that will not be released until you destroy the JPEG object. This is only an issue if you save a JPEG object between compression or decompression operations.

Far data space may also be a tight resource when you are dealing with large images. The most memory-intensive case is decompression with two-pass color quantization, or single-pass quantization to an externally supplied color map. This requires a 128Kb color lookup table plus strip buffers amounting to about 40 bytes per column for typical sampling ratios (eg, about 25600 bytes for a 640-pixel-wide image). You may not be able to process wide images if you have large data structures of your own.

Of course, all of these concerns vanish if you use a 32-bit flat-memory-model compiler, such as DJGPP or Watcom C. We highly recommend flat model if you can use it; the JPEG library is significantly faster in flat model.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.e17.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/libjpeg.txt
No license file was found, but licenses were detected in source scan.

/*
 * jfdctint.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a slow-but-accurate integer implementation of the
 * forward DCT (Discrete Cosine Transform).
 *
 * A 2-D DCT can be done by 1-D DCT on each row followed by 1-D DCT
 * on each column. Direct algorithms are also available, but they are
 * much more complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on an algorithm described in
 * C. Loeffler, A. Ligtenberg and G. Moschytz, "Practical Fast 1-D DCT
 * Algorithms with 11 Multiplications", Proc. Int'l. Conf. on Acoustics,
The primary algorithm described there uses 11 multiplies and 29 adds.
We use their alternate method with 12 multiplies and 32 adds.
The advantage of this method is that no data path contains more than one multiplication; this allows a very simple and accurate implementation in scaled fixed-point arithmetic, with a minimal number of shifts.

This file was part of the Independent JPEG Group's software:
Copyright (C) 1991-1997, Thomas G. Lane.
Copyright (C) 2010-2011, 2013, D. R. Commander.
For conditions of distribution and use, see the accompanying README file.
This file contains a command-line user interface for the JPEG decompressor.
It should work on any system with Unix- or MS-DOS-style command lines.
Two different command line styles are permitted, depending on the
compile-time switch TWO_FILE_COMMANDLINE:
djpeg [options] inputfile outputfile
djpeg [options] [inputfile]
In the second style, output is always to standard output, which you'd normally redirect to a file or pipe to some other program. Input is either from a named file or from standard input (typically redirected).
The second style is convenient on Unix but is unhelpful on systems that don't support pipes. Also, you MUST use the first style if your system doesn't do binary I/O to stdin/stdout.
To simplify script writing, the "-outfile" switch is provided. The syntax djpeg [options] -outfile outputfile inputfile
works regardless of which command line style is used.

This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1998, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009-2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains optional default-setting code for the JPEG compressor.
* Applications do not have to use this file, but those that don't use it
* must know a lot more about the innards of the JPEG code.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jcparam.c

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

/*
* jidctflt.c
*
* Copyright (C) 1994-1998, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains a floating-point implementation of the
* inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
* must also perform dequantization of the input coefficients.
* 
* This implementation should be more accurate than either of the integer
* IDCT implementations. However, it may not give the same results on all
* machines because of differences in roundoff behavior. Speed will depend
* on the hardware's floating point capacity.
* 
* A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
* on each row (or vice versa, but it's more convenient to emit a row at
* a time). Direct algorithms are also available, but they are much more
* complex and seem not to be any faster when reduced to code.
* 
* This implementation is based on Arai, Agui, and Nakajima's algorithm for
* scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
* Japanese, but the algorithm is described in the Pennebaker & Mitchell
* JPEG textbook (see REFERENCES section in file README). The following code
* is based directly on figure 4-8 in P&M.
* While an 8-point DCT cannot be done in less than 11 multiplies, it is
* possible to arrange the computation so that many of the multiplies are
* simple scalings of the final outputs. These multiplies can then be
* folded into the multiplications or divisions by the JPEG quantization
* table entries. The AA&N method leaves only 5 multiplies and 29 adds
* to be done in the DCT itself.

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* The primary disadvantage of this method is that with a fixed-point
* implementation, accuracy is lost due to imprecise representation of the
* scaled quantization values. However, that problem does not arise if
* we use floating point arithmetic.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jidctflt.c
No license file was found, but licenses were detected in source scan.

/*
* jchuff.h
* *
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains declarations for Huffman entropy encoding routines
* that are shared between the sequential encoder (jchuff.c) and the
* progressive encoder (jcphuff.c). No other modules need to see these.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jchuff.h
No license file was found, but licenses were detected in source scan.

/*
* jdinput.c
* *
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1997, Thomas G. Lane.
* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains input control logic for the JPEG decompressor.
* These routines are concerned with controlling the decompressor's input
* processing (marker reading and coefficient decoding). The actual input
* reading is done in jdmarker.c, jdhuff.c, and jdphuff.c.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jdinput.c
No license file was found, but licenses were detected in source scan.
/*
 * wrbmp.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to write output images in Microsoft "BMP"
 * format (MS Windows 3.x and OS/2 1.x flavors).
 * Either 8-bit colormapped or 24-bit full-color format can be written.
 * No compression is supported.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume output to
 * an ordinary stdio stream.
 *
 * This code contributed by James Arthur Boucher.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/wrbmp.c

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

/*
 * rdgif.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in GIF format.
 *
*********************************************************************************
* NOTE: to avoid entanglements with Unisys' patent on LZW compression,        *
* the ability to read GIF files has been removed from the IJG distribution.  *
* Sorry about that.                                                       *
*********************************************************************************
 *
* We are required to state that
* "The Graphics Interchange Format(c) is the Copyright property of
* CompuServe Incorporated. GIF(sm) is a Service Mark property of
* CompuServe Incorporated."
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdgif.c
No license file was found, but licenses were detected in source scan.

/*
 * jcmaster.c
 *
 * This file was part of the Independent JPEG Group's software:
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * Modified 2003-2010 by Guido Vollbeding.
 * Modifications:
 * Copyright (C) 2010, D. R. Commander.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains master control logic for the JPEG compressor.
 * These routines are concerned with parameter validation, initial setup,
 * and inter-pass control (determining the number of passes and the work
 * to be done in each pass).
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcmaster.c

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

/*
 * rdjpgcom.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * Modified 2009 by Bill Allombert, Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains a very simple stand-alone application that displays
 * the text in COM (comment) markers in a JFIF file.
 * This may be useful as an example of the minimum logic needed to parse
 * JPEG markers.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdjpgcom.c

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

Package: {__PKGNAME}
Version: {__VERSION}-{__BUILD}
Section: misc
Priority: optional
Architecture: {__ARCH}
Essential: no
Maintainer: The libjpeg-turbo Project [http://www.libjpeg-turbo.org]
Description: A SIMD-accelerated JPEG codec that provides both the libjpeg and TurboJPEG APIs
libjpeg-turbo is a JPEG image codec that uses SIMD instructions (MMX, SSE2, NEON) to accelerate baseline JPEG compression and decompression on x86, x86-64, and ARM systems. On such systems, libjpeg-turbo is generally 2-4x as fast as libjpeg, all else being equal. On other types of systems, libjpeg-turbo can still outperform libjpeg by a significant amount, by virtue of its highly-optimized Huffman coding routines. In many cases, the performance of libjpeg-turbo rivals that of proprietary high-speed JPEG codecs.

libjpeg-turbo implements both the traditional libjpeg API as well as the less powerful but more straightforward TurboJPEG API. libjpeg-turbo also features colorspace extensions that allow it to compress from/decompress to 32-bit and big-endian pixel buffers (RGBX, XBGR, etc.), as well as a full-featured Java interface.

libjpeg-turbo was originally based on libjpeg/SIMD, an MMX-accelerated derivative of libjpeg v6b developed by Miyasaka Masaru. The TigerVNC and VirtualGL projects made numerous enhancements to the codec in 2009, and in early 2010, libjpeg-turbo spun off into an independent project, with the goal of making high-speed JPEG compression/decompression technology available to a broader range of users and developers.

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

/*
jcphuff.c
*/

* jcphuff.c

* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* This file contains Huffman entropy encoding routines for progressive JPEG.
* We do not support output suspension in this module, since the library
currently does not allow multiple-scan files to be written with output
* suspension.
*/

No license file was found, but licenses were detected in source scan.
/ *
* jdarith.c
*
* Developed 1997-2009 by Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains portable arithmetic entropy decoding routines for JPEG
* 
* Both sequential and progressive modes are supported in this single module.
* 
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.e17.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdarith.c
No license file was found, but licenses were detected in source scan.

/ *
* jdphuff.c
*
* Copyright (C) 1995-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* 
* This file contains Huffman entropy decoding routines for progressive JPEG.
* 
* Much of the complexity here has to do with supporting input suspension.
* If the data source module demands suspension, we want to be able to back
* up to the start of the current MCU. To do this, we copy state variables
* into local working storage, and update them back to the permanent
* storage only upon successful completion of an MCU.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.e17.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdphuff.c
No license file was found, but licenses were detected in source scan.

/ *
* wrzle.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write output images in RLE format.
* The Utah Raster Toolkit library is required (version 3.1 or later).
*
* These routines may need modification for non-Unix environments or
* specialized applications. As they stand, they assume output to
* an ordinary stdio stream.
*
* Based on code contributed by Mike Lijewski,
* with updates from Robert Hutchinson.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/wrrle.c
No license file was found, but licenses were detected in source scan.

*/
* jdatadst-tj.c
*
* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1994-1996, Thomas G. Lane.
* Modified 2009-2012 by Guido Vollbeding.
* Modifications:
* Copyright (C) 2011, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdatadst-tj.c
No license file was found, but licenses were detected in source scan.

*/
* cdjpeg.c
*
* Copyright (C) 1991-1997, Thomas G. Lane.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains common support routines used by the IJG application
* programs (cjjpeg, djjpeg, jpegtran).
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/cdjpeg.c

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

; For conditions of distribution and use, see copyright notice in jsimdext.inc

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdoommx.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jisss2flt-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jiss2red.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdmrgss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcsamss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdsamss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdmerss2.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcqrnts2f-64.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcqntmmx.asm
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcclrmmx.asm
No license file was found, but licenses were detected in source scan.

/*
 * jmemmgr.c
 *
 * Copyright (C) 1991-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the JPEG system-independent memory management routines. This code is usable across a wide variety of machines; most of the system dependencies have been isolated in a separate file.
 * The major functions provided here are:
 * pool-based allocation and freeing of memory;
 * policy decisions about how to divide available memory among the virtual arrays;
 * control logic for swapping virtual arrays between main memory and backing storage.
 * The separate system-dependent file provides the actual backing-storage access code, and it contains the policy decision about how much total main memory to use.
 * This file is system-dependent in the sense that some of its functions are unnecessary in some systems. For example, if there is enough virtual memory so that backing storage will never be used, much of the virtual array control logic could be removed. (Of course, if you have that much memory then you shouldn't care about a little bit of unused code...)
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.050/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/simd/jmemmgr.c
No license file was found, but licenses were detected in source scan.

/*
 * jidctred.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
*/
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains inverse-DCT routines that produce reduced-size output:
* either 4x4, 2x2, or 1x1 pixels from an 8x8 DCT block.
*
* The implementation is based on the Loeffler, Ligtenberg and Moschytz (LL&M) algorithm used in jidctint.c. We simply replace each 8-to-8 1-D IDCT step
* with an 8-to-4 step that produces the four averages of two adjacent outputs
* (or an 8-to-2 step producing two averages of four outputs, for 2x2 output).
* These steps were derived by computing the corresponding values at the end
* of the normal LL&M code, then simplifying as much as possible.
*
* 1x1 is trivial: just take the DC coefficient divided by 8.
*
* See jidctint.c for additional comments.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIPtPYZ/libjpeg-turbo-1.2.90/jidctred.c

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

/ *
* transupp.h
*
* Copyright (C) 1997-2011, Thomas G. Lane, Guido Vollbeding.
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains declarations for image transformation routines and
* other utility code used by the jpegtran sample application. These are
* NOT part of the core JPEG library. But we keep these routines separate
* from jpegtran.c to ease the task of maintaining jpegtran-like programs
* that have other user interfaces.
*
* NOTE: all the routines declared here have very specific requirements
* about when they are to be executed during the reading and writing of the
* source and destination files. See the comments in transupp.c, or see
* jpegtran.c for an example of correct usage.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIPtPYZ/libjpeg-turbo-1.2.90/transupp.h

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

/ *
* jsimddct.h

* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB

* Based on the x86 SIMD extension for IJG JPEG library,
* Copyright (C) 1999-2006, MIYASAKA Masaru.
* For conditions of distribution and use, see copyright notice in jsimdext.inc

*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiuUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jsimddct.h
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/*
* transupp.c

* This file was part of the Independent JPEG Group's software:
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* For conditions of distribution and use, see the accompanying README file.

* This file contains image transformation routines and other utility code
* used by the jpegtran sample application. These are NOT part of the core
* JPEG library. But we keep these routines separate from jpegtran.c to
* ease the task of maintaining jpegtran-like programs that have other user
* interfaces.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiuUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/transupp.c
No license file was found, but licenses were detected in source scan.

/*
* jquant2.c

* This file was part of the Independent JPEG Group's software:
* Copyright (C) 1991-1996, Thomas G. Lane.
* Modifications:
* Copyright (C) 2009, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.

* This file contains 2-pass color quantization (color mapping) routines.
* These routines provide selection of a custom color map for an image,
* followed by mapping of the image to that color map, with optional
* Floyd-Steinberg dithering.
* It is also possible to use just the second pass to map to an arbitrary
  * externally-given color map.
  *
  * Note: ordered dithering is not supported, since there isn't any fast
  * way to compute intercolor distances; it's unclear that ordered dither's
  * fundamental assumptions even hold with an irregularly spaced color map.
  */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LlP8tPYZ/libjpeg-turbo-1.2.90/jquant2.c
No license file was found, but licenses were detected in source scan.

/*
* jcsample.c
*
* Copyright (C) 1991-1996, Thomas G. Lane.
* Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
* This file is part of the Independent JPEG Group's software.
* For conditions of distribution and use, see the accompanying README file.
* *
* This file contains downsampling routines.
* *
* Downsampling input data is counted in "row groups". A row group
* is defined to be max_v_samp_factor pixel rows of each component,
* from which the downsampler produces v_samp_factor sample rows.
* A single row group is processed in each call to the downsampler module.
* *
* The downsampler is responsible for edge-expansion of its output data
* to fill an integral number of DCT blocks horizontally. The source buffer
* may be modified if it is helpful for this purpose (the source buffer is
* allocated wide enough to correspond to the desired output width).
* The caller (the prep controller) is responsible for vertical padding.
* *
* The downsampler may request "context rows" by setting need_context_rows
* during startup. In this case, the input arrays will contain at least
* one row group's worth of pixels above and below the passed-in data;
* the caller will create dummy rows at image top and bottom by replicating
* the first or last real pixel row.
* *
* An excellent reference for image resampling is
* *
* The downsampling algorithm used here is a simple average of the source
* pixels covered by the output pixel. The hi-falutin sampling literature
* refers to this as a "box filter". In general the characteristics of a box
* filter are not very good, but for the specific cases we normally use (1:1
* and 2:1 ratios) the box is equivalent to a "triangle filter" which is not
* nearly so bad. If you intend to use other sampling ratios, you'd be well
* advised to improve this code.
*
* A simple input-smoothing capability is provided. This is mainly intended
* for cleaning up color-dithered GIF input files (if you find it inadequate,
* we suggest using an external filtering program such as pnmconvol). When
* enabled, each input pixel P is replaced by a weighted sum of itself and its
* eight neighbors. P's weight is 1-8*SF and each neighbor's weight is SF,
* where SF = (smoothing_factor / 1024).
* Currently, smoothing is only supported for 2h2v sampling factors.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.050/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jcsample.c
No license file was found, but licenses were detected in source scan.

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ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
TurboJPEG Java Wrapper

The TurboJPEG shared library can optionally be built with a Java Native Interface wrapper, which allows the library to be loaded and used directly from Java applications. The Java front end for this is defined in several classes located under org/libjpegturbo/turbojpeg. The source code for these Java classes is licensed under a BSD-style license, so the files can be incorporated directly into both open source and proprietary projects without restriction. A Java archive (JAR) file containing these classes is also shipped with the "official" distribution packages of libjpeg-turbo.

TJExample.java, which should also be located in the same directory as this README file, demonstrates how to use the TurboJPEG Java API to compress and decompress JPEG images in memory.

Performance Pitfalls

The TurboJPEG Java API defines several convenience methods that can allocate image buffers or instantiate classes to hold the result of compress, decompress, or transform operations. However, if you use these methods, then be mindful of the amount of new data you are creating on the heap. It may be necessary to manually invoke the garbage collector to prevent heap exhaustion or to prevent performance degradation. Background garbage collection can kill performance, particularly in a multi-threaded environment (Java pauses all threads when the GC runs.)

The TurboJPEG Java API always gives you the option of pre-allocating your own source and destination buffers, which allows you to re-use those buffers for compressing/decompressing multiple images. If the image sequence you are compressing or decompressing consists of images of the same size, then pre-allocating the buffers is recommended.
Installation Directory

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

If the TurboJPEG JNI library (libturbojpeg.so, libturbojpeg.jnilib, or turbojpeg.dll) is not installed under a system library directory or under a directory specified in LD_LIBRARY_PATH (Unix) or PATH (Windows), then you will need to pass an argument of -Djava.library.path={path_to_JNI_library} to java.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/ij/jpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/ij/jpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/ij/jpeg-turbo-1.2.90/java/README

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IJG JPEG LIBRARY: CODING RULES

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Since numerous people will be contributing code and bug fixes, it's important to establish a common coding style. The goal of using similar coding styles is much more important than the details of just what that style is.

In general we follow the recommendations of "Recommended C Style and Coding Standards" revision 6.1 (Cannon et al. as modified by Spencer, Keppel and Brader). This document is available in the IJG FTP archive (see jpeg/doc/cstyle.ms.tbl.Z, or cstyle.txt.Z for those without nroff/tbl).

Block comments should be laid out thusly:

/*
 * Block comments in this style.
 */

We indent statements in K&R style, e.g.,
if (test) {
  then-part;
} else {
  else-part;
}
with two spaces per indentation level. (This indentation convention is handled automatically by GNU Emacs and many other text editors.)

Multi-word names should be written in lower case with underscores, e.g., multi_word_name (not multiWordName). Preprocessor symbols and enum constants are similar but upper case (MULTI_WORD_NAME). Names should be unique within the first fifteen characters. (On some older systems, global names must be
unique within six characters. We accommodate this without cluttering the source code by using macros to substitute shorter names.)

We use function prototypes everywhere; we rely on automatic source code transformation to feed prototype-less C compilers. Transformation is done by the simple and portable tool 'ansi2knr.c' (courtesy of Ghostscript). ansi2knr is not very bright, so it imposes a format requirement on function declarations: the function name MUST BEGIN IN COLUMN 1. Thus all functions should be written in the following style:

```c
LOCAL(int *)
function_name (int a, char *b)
{
    code...
}
```

Note that each function definition must begin with GLOBAL(type), LOCAL(type), or METHODDEF(type). These macros expand to "static type" or just "type" as appropriate. They provide a readable indication of the routine's usage and can readily be changed for special needs. (For instance, special linkage keywords can be inserted for use in Windows DLLs.)

ansi2knr does not transform method declarations (function pointers in structs). We handle these with a macro JMETHOD, defined as

```c
#ifdef HAVE_PROTOTYPES
#define JMETHOD(type,methodname,arglist)  type (*methodname) arglist
#else
#define JMETHOD(type,methodname,arglist)  type (*methodname) ()
#endif
```

which is used like this:

```c
struct function_pointers {
    JMETHOD(void, init_entropy_encoder, (int somearg, jparms *jp));
    JMETHOD(void, term_entropy_encoder, (void));
};
```

Note the set of parentheses surrounding the parameter list.

A similar solution is used for forward and external function declarations (see the EXTERN and JPP macros).

If the code is to work on non-ANSI compilers, we cannot rely on a prototype declaration to coerce actual parameters into the right types. Therefore, use explicit casts on actual parameters whenever the actual parameter type is not identical to the formal parameter. Beware of implicit conversions to "int".

It seems there are some non-ANSI compilers in which the sizeof() operator is defined to return int, yet size_t is defined as long. Needless to say, this is brain-damaged. Always use the SIZEOF() macro in place of sizeof(), so that the result is guaranteed to be of type size_t.
The JPEG library is intended to be used within larger programs. Furthermore, we want it to be reentrant so that it can be used by applications that process multiple images concurrently. The following rules support these requirements:

1. Avoid direct use of file I/O, "malloc", error report printouts, etc; pass these through the common routines provided.

2. Minimize global namespace pollution. Functions should be declared static wherever possible. (Note that our method-based calling conventions help this a lot: in many modules only the initialization function will ever need to be called directly, so only that function need be externally visible.) All global function names should begin with "jpeg_", and should have an abbreviated name (unique in the first six characters) substituted by macro when NEED_SHORTEXTERNAL_NAMES is set.

3. Don't use global variables; anything that must be used in another module should be in the common data structures.

4. Don't use static variables except for read-only constant tables. Variables that should be private to a module can be placed into private structures (see the system architecture document, structure.txt).

5. Source file names should begin with "j" for files that are part of the library proper; source files that are not part of the library, such as cjpegc.c and djpegc.c, do not begin with "j". Keep source file names to eight characters (plus ".c" or ".h", etc) to make life easy for MS-DOSers. Keep compression and decompression code in separate source files --- some applications may want only one half of the library.

Note: these rules (particularly #4) are not followed religiously in the modules that are used in cjpegc/djpegc but are not part of the JPEG library proper. Those modules are not really intended to be used in other applications.

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/coderules.txt
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/*
 * jcarith.c
 *
 * Developed 1997-2009 by Guido Vollbeding.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
* This file contains portable arithmetic entropy encoding routines for JPEG
* Both sequential and progressive modes are supported in this single module.
* Suspension is not currently supported in this module.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomiuL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIPtPYZ/libjpeg-turbo-1.2.90/jcarith.c
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/*
 * jidctfst.c
 *
 * Copyright (C) 1994-1998, Thomas G. Lane.
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 *
 * This file contains a fast, not so accurate integer implementation of the
 * inverse DCT (Discrete Cosine Transform). In the IJG code, this routine
 * must also perform dequantization of the input coefficients.
 *
 * A 2-D IDCT can be done by 1-D IDCT on each column followed by 1-D IDCT
 * on each row (or vice versa, but it's more convenient to emit a row at
 * a time). Direct algorithms are also available, but they are much more
 * complex and seem not to be any faster when reduced to code.
 *
 * This implementation is based on Arai, Agui, and Nakajima's algorithm for
 * scaled DCT. Their original paper (Trans. IEICE E-71(11):1095) is in
 * Japanese, but the algorithm is described in the Pennebaker & Mitchell
 * JPEG textbook (see REFERENCES section in file README). The following code
 * is based directly on figure 4-8 in P&M.
 * While an 8-point DCT cannot be done in less than 11 multiplies, it is
 * possible to arrange the computation so that many of the multiplies are
 * simple scalings of the final outputs. These multiplies can then be
 * folded into the multiplications or divisions by the JPEG quantization
 * table entries. The AA&N method leaves only 5 multiplies and 29 adds
 * to be done in the DCT itself.
 * The primary disadvantage of this method is that with fixed-point math,
 * accuracy is lost due to imprecise representation of the scaled
 * quantization values. The smaller the quantization table entry, the less
 * precise the scaled value, so this implementation does worse with high-
 * quality-setting files than with low-quality ones.
*/

Found in path(s):
*/
* jcmarker.c
*
* This file was part of the Independent JPEG Group's software:
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* Modifications:
* Copyright (C) 2010, D. R. Commander.
* For conditions of distribution and use, see the accompanying README file.
*
* This file contains routines to write JPEG datastream markers.
*/

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#
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# CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)
# ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
# POSSIBILITY OF SUCH DAMAGE.
#
#!/bin/sh
if [ ! "id -u" = "0" ]; then
echo "ERROR: This script must be executed as root"
exit -1
fi

PACKAGE=\@PACKAGE_NAME@
MACPACKAGE=com.$PACKAGE.$PACKAGE
RECEIPT=/Library/Receipts/$PACKAGE.pkg

LSBOM=
if [ -d $RECEIPT ]; then
LSBOM='lsbom -s -f -l "$RECEIPT/Contents/Archive.bom"
else
LSBOM='pkgutil --files "$MACPACKAGE"
fi

mylsbom()
{
$LSBOM || (echo "ERROR: Could not list package contents"; exit -1)
}

echo Removing package files ...
EXITSTATUS=0
pushd /
mylsbom | while read file; do
if [ ! -d "$file" ]; then rm "$file" 2>&1 || EXITSTATUS=-1; fi
done
popd

echo Removing package directories ...
if [ -d /opt/$PACKAGE/bin ]; then
rmdir /opt/$PACKAGE/bin 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/lib ]; then
rmdir /opt/$PACKAGE/lib 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/include ]; then
rmdir /opt/$PACKAGE/include 2>&1 || EXITSTATUS=-1
fi
rm /opt/$PACKAGE/lib32 2>&1 || EXITSTATUS=-1
rm /opt/$PACKAGE/lib64 2>&1 || EXITSTATUS=-1
if [ -d /opt/$PACKAGE/man/man1 ]; then
rmdir /opt/$PACKAGE/man/man1 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/man ]; then
rmdir /opt/$PACKAGE/man 2>&1 || EXITSTATUS=-1
fi
if [ -d /opt/$PACKAGE/classes ]; then
  rmdir /opt/$PACKAGE/classes 2>&1 || EXITSTATUS=-1
fi

rmdir /opt/$PACKAGE 2>&1 || EXITSTATUS=-1
rmdir /Library/Documentation/$PACKAGE 2>&1 || EXITSTATUS=-1

if [ -d $RECEIPT ]; then
  echo Removing package receipt ...
  rm -r $RECEIPT 2>&1 || EXITSTATUS=-1
else
  echo Forgetting package $MACPACKAGE ...
  pkgutil --forget $MACPACKAGE
fi

exit $EXITSTATUS

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YosmiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/release/uninstall.in
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/*
 * jcomapi.c
 *
 * Copyright (C) 1994-1997, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains application interface routines that are used for both
 * compression and decompression.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YosmiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/release/jcomapi.c
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; jcolsamp.inc - private declarations for color conversion & up/downsampling
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
; ; [TAB8]
; pseudo-resisters to make ordering of RGB configurable
;
%if RGB_RED == 0
%define mmA mm0
%define mmB mm1
%define xmmA xmm0
%define xmmB xmm1
%elif RGB_GREEN == 0
%define mmA mm2
%define mmB mm3
%define xmmA xmm2
%define xmmB xmm3
%elif RGB_BLUE == 0
%define mmA mm4
%define mmB mm5
%define xmmA xmm4
%define xmmB xmm5
%else
%define mmA mm6
%define mmB mm7
%define xmmA xmm6
%define xmmB xmm7
%endif

%if RGB_RED == 1
%define mmC mm0
%define mmD mm1
%define xmmC xmm0
%define xmmD xmm1
%elif RGB_GREEN == 1
%define mmC mm2
%define mmD mm3
%define xmmC xmm2
%define xmmD xmm3
%elif RGB_BLUE == 1
%define mmC mm4
%define mmD mm5
%define xmmC xmm4
%define xmmD xmm5
%else
%define mmC mm6
%define mmD mm7
%define xmmC xmm6
%define xmmD xmm7
%endif
%if RGB_RED == 2
%define mmE mm0
%define mmF mm1
%define xmmE xmm0
%define xmmF xmm1
%elif RGB_GREEN == 2
%define mmE mm2
%define mmF mm3
%define xmmE xmm2
%define xmmF xmm3
%elif RGB_BLUE == 2
%define mmE mm4
%define mmF mm5
%define xmmE xmm4
%define xmmF xmm5
%else
%define mmE mm6
%define mmF mm7
%define xmmE xmm6
%define xmmF xmm7
%endif

%if RGB_RED == 3
%define mmG mm0
%define mmH mm1
%define xmmG xmm0
%define xmmH xmm1
%elif RGB_GREEN == 3
%define mmG mm2
%define mmH mm3
%define xmmG xmm2
%define xmmH xmm3
%elif RGB_BLUE == 3
%define mmG mm4
%define mmH mm5
%define xmmG xmm4
%define xmmH xmm5
%else
%define mmG mm6
%define mmH mm7
%define xmmG xmm6
%define xmmH xmm7
%endif

; --------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jcolsamp.inc

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 * POSSIBILITY OF SUCH DAMAGE.
 */

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* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJ.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJLoader.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJExample.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJCompressor.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/org/libjpegturbo/turbojpeg/TJDecompressor.java
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/turbojpeg-jni.c
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/java/TJUnitTest.java
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* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/doc/html/search/search.js
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/*
 * rdtarga.c
 *
 * Copyright (C) 1991-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains routines to read input images in Targa format.
 *
 * These routines may need modification for non-Unix environments or
 * specialized applications. As they stand, they assume input from
 * an ordinary stdio stream. They further assume that reading begins
 * at the start of the file; start_input may need work if the
 * user interface has already read some data (e.g., to determine that
 * the file is indeed Targa format).
 *
 * Based on code contributed by Lee Daniel Crocker.
 */

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/rdtarga.c
No license file was found, but licenses were detected in source scan.

/*
 * jdpostct.c
 *
 * Copyright (C) 1994-1996, Thomas G. Lane.
 * This file is part of the Independent JPEG Group's software.
 * For conditions of distribution and use, see the accompanying README file.
 *
 * This file contains the decompression postprocessing controller.
 * This controller manages the upsampling, color conversion, and color
 * quantization/reduction steps; specifically, it controls the buffering
 * between upsample/color conversion and color quantization/reduction.
* If no color quantization/reduction is required, then this module has no
* work to do, and it just hands off to the upsample/color conversion code.
* An integrated upsample/convert/quantize process would replace this module
* entirely.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdpostct.c
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; jdct.inc - private declarations for forward & reverse DCT subsystems
;
; Copyright 2009 Pierre Ossman <ossman@cendio.se> for Cendio AB
;
; Based on
; x86 SIMD extension for IJG JPEG library
; Copyright (C) 1999-2006, MIYASAKA Masaru.
; For conditions of distribution and use, see copyright notice in jsimdext.inc
;
; [TAB8]

; Each IDCT routine is responsible for range-limiting its results and
; converting them to unsigned form (0..MAXJSAMPLE). The raw outputs could
; be quite far out of range if the input data is corrupt, so a bulletproof
; range-limiting step is required. We use a mask-and-table-lookup method
; to do the combined operations quickly.
;
%define RANGE_MASK  (MAXJSAMPLE * 4 + 3)  ; 2 bits wider than legal samples

%define ROW(n,b,s)((b)+(n)*(s))
%define COL(n,b,s)((b)+(n)*(s)*DCTSIZE)

%define DWBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_DWORD)
%define MMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_MMWORD)
%define XMMBLOCK(m,n,b,s)((b)+(m)*DCTSIZE*(s)+(n)*SIZEOF_XMMWORD)

; ---------------------------------------------------------------------------------

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-YsomiqUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/simd/jdct.inc
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* Copyright (C) 2013, D. R. Commander.
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*
* This file contains compression data destination routines for the case of
* emitting JPEG data to memory or to a file (or any stdio stream).
* While these routines are sufficient for most applications,
* some will want to use a different destination manager.
* IMPORTANT: we assume that fwrite() will correctly transcribe an array of
* JOCTETs into 8-bit-wide elements on external storage. If char is wider
* than 8 bits on your machine, you may need to do some tweaking.
*/

Found in path(s):
* /opt/cola/permits/1126574253_1611721154.05/0/libjpeg-turbo-1.2.90-8.el7.src.rpm-cosi-expand-archive-
  YsomIQUL/libjpeg-turbo-1.2.90.tar.gz-cosi-expand-archive-LIP8tPYZ/libjpeg-turbo-1.2.90/jdatadst.c

1.1189 jetty-client 9.2.19.v20160908

1.1190 mime4j 0.6.redhat-3
1.1190.1 Available under license :

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Eclipse

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

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* org.eclipse.jetty.orbit:javax.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

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

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Oracle OpenJDK

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

* java.sun.security.ssl

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

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

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

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
MortBay

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

-- END GPLv2+ License ---

1.1196 perl-threads 1.87-4.el7
1.1196.1 Available under license :
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl interpreter-based threads'
author:
  - 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
buildRequires:
  ExtUtils::MakeMaker: 0
configureRequires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: threads
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
  ExtUtils::testlib: 0
  Hash::Util: 0
  IO::File: 0
  Test::More: 0
  XSLoader: 0
  overload: 0
  strict: 0
  warnings: 0
version: 1.87

Found in path(s):
  */opt/cola/permits/1148335017_1619430679.79/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-
  SDFAmy0c/threads-1.87.tar.gz-cosi-expand-archive-RalrsEzL/threads-1.87/META.yml
No license file was found, but licenses were detected in source scan.

/*/  

ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS
perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.
If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither `--patch` or `--copy` are given, the default is to simply print the diffs for each file. This requires either `Text::Diff` or a `diff` program to be installed.

Manually set the diff program and options to use. The default is to use `Text::Diff`, when installed, and output unified context diffs.

Tell `ppport.h` to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of `ppport.h` if you intend to be backward compatible only down to a certain Perl version.

Usually, `ppport.h` will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs `ppport.h` to leave C++ comments untouched.

Be quiet. Don't print anything except fatal errors.

Don't output any diagnostic messages. Only portability alerts will be printed.

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.
=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

---
Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

    perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES
To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/_
to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.
=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
=head1 SEE ALSO
See L<Devel::PPPort>.
=cut
use strict;
# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }
my $VERSION = 3.19;
my %opt = (
quiet => 0,
diag
=> 1,
hints => 1,
changes => 1,
cplusplus => 0,
filter => 1,
strip => 0,
version => 0,
);
my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])'; # line feed
my $HS = "[ \t]";
# horizontal whitespace
# Never use C comments in this file!
my $ccs = '/'.'*';
my $cce = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
eval {
require Getopt::Long;
Getopt::Long::GetOptions(\%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
)) or usage();
};

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if ($@ and grep /^-/, @ARGV) {
    usage() if "$ARGV" =~ /^--?h(?:elp)?$/;
    die "Getopt::Long not found. Please don't use any options\n";
}

if ($opt{version}) {
    print "This is $0 $VERSION\n";
    exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{compat-version}) {
    my($r,$v,$s) = eval { parse_version($opt{compat-version}) };
    if ($@) {
        die "Invalid version number format: \$opt{compat-version}'\n";
    }
    die "Only Perl 5 is supported\n" if $r != 5;
    die "Invalid version number: \$opt{compat-version}'\n" if $v >= 1000 || $s >= 1000;
    $opt{compat-version} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
    $opt{compat-version} = 5;
}

my %API = map { /^\w+\|\[^|\]*\|\[^|\]*\|\w*$/
    ? ( $1 => {
        ( base => $2 ) : (),
        ( todo => $3 ) : (),
        ( index($4, 'v') >= 0 => varargs => 1 ) : (),
        ( index($4, 'p') >= 0 => provided => 1 ) : (),
        ( index($4, 'n') >= 0 => nothxarg => 1 ) : (),
    } )
    : die "invalid spec: \$_" } qw(
    AvFILLp|5.004050||p
    AvFILL||
    CLASS||n
    CPERLscope|5.005000||p
    CX_CURPAD_SAVE||
    CX_CURPAD_SV||
    CopFILEAV|5.006000||p
    CopFILEGV_set|5.006000||p
    CopFILEGV|5.006000||p
    CopFILE_set|5.006000||p
    CopFILE|5.006000||p


PL_sv_undef[5.004050]|pn
PL_sv_yes[5.004050]|pn
PL_tainted[5.004050]|p
PL_tainting[5.004050]|p
PL_tokenbuf[5.011000]|p
POP_MULTICALL[5.011000]
POPi||n
POPi||n
POPn||n
POPbytex[5.007001]|n
POPpx||5.005030]|n
POPp||n
POPs||n
PTR2IV[5.006000]|p
PTR2NV[5.006000]|p
PTR2UV[5.006000]|p
PTR2nat[5.009003]|p
PTR2ul[5.007001]|p
PTRV[5.006000]|p
PUSHMARK||
PUSH_MULTICALL[5.011000]
PUSHi||
PUSHmortal[5.009002]|p
PUSHn||
PUSHp||
PUSHs||
PUSHu[5.004000]|p
PUTBACK||
PerlIO_clearerr[5.007003]
PerlIO_close[5.007003]
PerlIO_context_layers[5.009004]
PerlIO_eof[5.007003]
PerlIO_error[5.007003]
PerlIO_filenos[5.007003]
PerlIO_fill[5.007003]
PerlIO_flush[5.007003]
PerlIO_get_base[5.007003]
PerlIO_get_bufsiz[5.007003]
PerlIO_get_cnt[5.007003]
PerlIO_get_ptr[5.007003]
PerlIO_read[5.007003]
PerlIO_seek[5.007003]
PerlIO_set_cnt[5.007003]
PerlIO_set_ptrcnt[5.007003]
PerlIO_setlinebuf[5.007003]
PerlIO_stderr[5.007003]
PerlIO_stdin[5.007003]
PerlIO_stdout[5.007003]
SvPVX_mutable|5.009003|p
SvPVX||
SvPV_const|5.009003|p
SvPV_flags_const_nolen|5.009003|p
SvPV_flags_const|5.009003|p
SvPV_flags_mutable|5.009003|p
SvPV_flags|5.007002|p
SvPV_force_flags_mutable|5.009003|p
SvPV_force_flags_nolen|5.009003|p
SvPV_force_flags|5.009003|p
SvPV_force_nomg_nolen|5.009003|p
SvPV_force_nomg|5.009003|p
SvPV_force|5.007002|p
SvPV_force||p
SvPV_mutable|5.009003|p
SvPV_nolen_const|5.009003|p
SvPV_nolen|5.006000|p
SvPV_nomg_const_nolen|5.009003|p
SvPV_nomg_const|5.009003|p
SvPV_nomg|5.007002|p
SvPV_renew|5.009003|p
SvPV_set||
SvPVbyte_force|5.009002|
SvPVbyte_nolen|5.006000|
SvPVbytex_force|5.006000|
SvPVbytex|5.006000|
SvPVbyte|5.006000|p
SvPVutf8_force|5.006000|
SvPVutf8_nolen|5.006000|
SvPVutf8x_force|5.006000|
SvPVutf8x|5.006000|
SvPVutf8|5.006000|
SvPV|x||
SvPV||
SvREFCNT_dec||
SvREFCNT_inc_NN|5.009004|p
SvREFCNT_inc_simple_NN|5.009004|p
SvREFCNT_inc_simple_void_NN|5.009004|p
SvREFCNT_inc_simple_void|5.009004|p
SvREFCNT_inc_simple|5.009004|p
SvREFCNT_inc_void_NN|5.009004|p
SvREFCNT_inc_void|5.009004|p
SvREFCNT_inc||p
SvREFCNT||
SvROK_off||
SvROK_on||
SvROK||
WARN_DEBUGGING|5.006000||p
WARN_DEPRECATED|5.006000||p
WARN_DIGIT|5.006000||p
WARN_EXEC|5.006000||p
WARN_EXITING|5.006000||p
WARN_GLOB|5.006000||p
WARN_INPLACE|5.006000||p
WARN_INTERNAL|5.006000||p
WARN_IO|5.006000||p
WARN_LAYER|5.008000||p
WARN_MALLOC|5.006000||p
WARN_MISC|5.006000||p
WARN_NEWLINE|5.006000||p
WARN_NUMERIC|5.006000||p
WARN_ONCE|5.006000||p
WARN_OVERFLOW|5.006000||p
WARN_PACK|5.006000||p
WARN_PARENTHESIS|5.006000||p
WARNPIPE|5.006000||p
WARN_PORTABLE|5.006000||p
WARN_PRECEDENCE|5.006000||p
WARN_PRINTF|5.006000||p
WARN_PROTOTYPE|5.006000||p
WARN_QW|5.006000||p
WARN_RECURSION|5.006000||p
WARN_REDEFINE|5.006000||p
WARN_REGEXP|5.006000||p
WARN_RESERVED|5.006000||p
WARN_SEMICOLON|5.006000||p
WARN_SEVERE|5.006000||p
WARN_SIGNAL|5.006000||p
WARN_SUBSTR|5.006000||p
WARN_SYNTAX|5.006000||p
WARN_TAINT|5.006000||p
WARN_THREADS|5.008000||p
WARN_UNINITIALIZED|5.006000||p
WARN_UNOPENED|5.006000||p
WARN_UNPACK|5.006000||p
WARN_UNTIE|5.006000||p
WARN_UTF8|5.006000||p
XCPT_CATCH|5.009002||p
XCPT_RETHROW|5.009002||p
XCPT_TRY_END|5.009002||p
XCPT_TRY_START|5.009002||p
XPUSH||
XPUSHmortal|5.009002||p
XPUSHn||
apply_attrs_string[5.006001]
apply_attrs[]
apply[]
atfork_lock[5.007003]
atfork_unlock[5.007003]
av_arylen_p[5.009003]
av_clear[]
av_create_and_push[5.009005]
av_create_and_unshift_one[5.009005]
av_delete[5.006000]
av_exists[5.006000]
av_extend[]
av_fetch[]
av_fill[]
av_iter_p[5.011000]
av_len[]
av_make[]
av_pop[]
av_push[]
av_reify[]
av_shift[]
av_store[]
av_unshift[]
av_undef[]
av_unshift[]
ax[]
bad_type[]
bind_match[]
block_end[]
block_gimme[5.004000]
block_start[]
boolSV[5.004000]
boot_core_PerlIO[]
boot_core_UNIVERSAL[]
boot_core_mro[]
bytes_from_utf8[5.007001]
bytes_to_union[]
bytes_to_utf8[5.006001]
call_argv[5.006000]
call_atexit[5.006000]
call_list[5.004000]
call_method[5.006000]
call_pv[5.006000]
call_sv[5.006000]
calloc[5.007002]
cando[]
cast_i32[5.006000]
cast_iv[5.006000]
cast_ulong[5.006000]
form|5.004000|v
fp_dup|||fprintf_nocontext|vn
free_global_struct|||
free_tied_hv_pool|||
free_tmps|||
gen_constant_list|||
get_arena|||
get_aux_mg|||
get_av|5.006000|p
get_context|5.006000|n
getcvn_flags|5.009005|
getcv|5.006000|p
get_db_sub|||
get_debug_opts|||
get_hash_seed|||
gethv|5.006000|p
get_isa_hash|||
get_mstats|||
get_no_modify|||
get_num|||
get_op_descs|5.005000|
get_op_names|5.005000|
get_opargs|||
get_paddr|5.006000|
getre_arg|||
getsv|5.006000|p
getvtbl|5.005030|
getcwd_sv|5.007002|
getenv_len|||
glob_2number|||
glob_assign_glob|||
glob_assign_ref|||
get_dup|||
get_free|||
get_ref|||
grok_bin|5.007003|p
grok_hex|5.007003|p
grok_number|5.007002|p
grok_numeric_radix|5.007002|p
grok_oct|5.007003|p
group_end|||
gv_AVadd|||
gv_HVadd|||
gv_IOadd|||
gv_SVadd|||
gv autoload4|5.004000|
gv_check|||
hv_exists
hv_fetch_ent
hv_fetchs
hv_fetch
hv_free_ent
hv_iterinit
hv_iterkeysv
hv_iterkey
hv_iternext_flags
hv_iternextsv
hv_iternext
hv_interval
hv_kill_backrefs
hv_ksplit
hv_magic_check
hv_magic
hv_name_set
hv_notallowed
hv_placeholders_get
hv_placeholders_p
hv_placeholders_set
hv_riter_p
hv_riter_set
hv_scalar
hv_store_ent
hv_store_flags
hv_stores
hv_store
hv.Undef
ibcmp_locale
ibcmp_utf8
ibcmp
incline
incpush_if_exists
incpush_use_sep
incpush
ingroup
init_argv_symbols
init_debugger
init_global_struct
init_i18n10n
init_i18n14n
init_ids
init_interp
init_main_stash
init_perllib
init_postdump_symbols
init_predump_symbols
magic_setdbline
magic_setdelelem
magic_setenv
magic_sethint
magic_setisa
magic_setglob
magic_setnkeys
magic_setpack
magic_setpos
magic_setregexp
magic_setsig
magic_setsubstr
magic_settaint
magic_setutf8
magic_setuvar
magic_setvec
magic_set
magic_sizepack
magic_wipepack
make_matcher
make_trie
malloc_good_size
malloced_size
malloc[5.007002]
markstack_grow
matcher_matches_sv
measure_struct
memEQ[5.004000]
memNE[5.004000]
mem_collxfrm
mem_log_common
mess_alloc
mess_nocontext
mess[5.006000]
method_common
mfree[5.007002]
mg_clear
mg_copy
mg_dup
mg_find
mg_free
mg_get
mg_length[5.005000]
mg_localize
mg_magical
mg_set
mg_size[5.005000]
reg_check_named_buff_matched
reg_named_buff_all[5.009005]
reg_named_buff_exists[5.009005]
reg_named_buff_fetch[5.009005]
reg_named_buff_firstkey[5.009005]
reg_named_buff_iter
reg_named_buff_nextkey[5.009005]
reg_named_buff_scalar[5.009005]
reg_named_buff
reg_namedseq
reg_node
reg_numbered_buff_fetch
reg_numbered_buff_length
reg_numbered_buff_store
reg_qp_package
reg_recode
reg_scan_name
reg_skipcomment
reg_temp_copy
reganode
regatom
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swash_get
swash_init[5.006000]
sys_init3[5.010000]|n
sys_init[5.010000]|n
sys_intern_clear
sys_intern_dup
yyparse|||
yywarn|||
);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}

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else {
    if (exists $API{$_[0]} && $_[1] =~ /^DPPP_\(\)/) {
        my @n = find_api($_[1]);
        push @{$depends{$_[0]}}, @n if @n
    }
    undef $_;
}

$define = [$1, $2] if m{^\s*define\s+\(?\$\([^{)}]*\)\)?\s+\(.*\)$};

if ($function) {
    if (/^\)/) {
        if (exists $API{$_[0]}) {
            my @n = find_api($_[1]);
            push @{$depends{$_[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function{1} .= $_;
    }
} else {
    $function->{1} = $_;
my $f;
my $count = 0;
my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E$";
for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $f =~ /$match/;
  print "\n=== $f ===\n
";
  my $info = 0;
  if (SAPI{$f} {base} || SAPI{$f} {todo}) {
    my $base = format_version(SAPI{$f} {base} || SAPI{$f} {todo});
    print "Supported at least starting from perl-$base.\n";
    $info++;
  }
  if (SAPI{$f} {provided}) {
    my $todo = SAPI{$f} {todo} ? format_version(SAPI{$f} {todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo.\n";
    print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
    print "Depends on: ", join(' ', @{$depends{$f}}), "\n" if exists $depends{$f};
    print "\n$warnings{$f}" if exists $warnings{$f};
    $info++;
  }
  print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
  $info++;
} 
print "\nNo portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching $opt{'api-info'}.\n";
print "\n";
exit 0;
}

if (exists $opt{'list-provided'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless SAPI{$f} {provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend'   if exists $depends{$f};
    push @flags, 'hint'     if exists $hints{$f};
    push @flags, 'warning'  if exists $warnings{$f};
    my @flags = @flags ? ['join(', ', @flags),'] : "";
    print "$f$flags\n";
  } 
  exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

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for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;
$c =~ s{
( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
| ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*'
| / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;
my $func;
for $func (keys %API) {
my $match = $func;
$match .= "|$revreplace{$func}" if exists $revreplace{$func};
if ($c =~ /\b(?:Perl_)?($match)\b/) {
$file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
$file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
if (exists $API{$func}{provided}) {
$file{uses_provided}{$func}++;
if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
$file{uses}{$func}++;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};

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}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

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for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
    my $warnings = 0;

    for $func (sort keys %{$file{uses_Perl}}) {
        if ($API{$func}{varargs}) {
            unless ($API{$func}{nothxarg}) {
                my $changes = ($c =~ s{\b(Perl_$func\$\((?!aTHX_\?)\)):\(['^aTHX\_]\))\(\s*\$$}{'$1' . ($2 eq ')' ? 'aTHX' : 'aTHX_') . $2 }ge);
                if ($changes) {
                    warning("Doesn't pass interpreter argument aTHX to Perl_$func");
                    $file{changes} += $changes;
                }
            } else {
                warning("Uses Perl_$func instead of $func");
                $file{changes} += ($c =~ s{\bPerl_$func\$\((?!aTHX_\?)\):\(['^aTHX\_]\))\(\s*\$$}{'$func$1'}g);
            }
        } else {
            warning("Uses Perl_$func instead of $func");
            $file{changes} += ($c =~ s{\bPerl_$func\$\((?!aTHX_\?)\):\(['^aTHX\_]\))\(\s*\$$}{'$func$1'}g);
        }
    }

    for $func (sort keys %{$file{uses_replace}}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s{\b$func\$\((?!aTHX_\?)\):\(['^aTHX\_]\))\(\s*\$$}{'$func$1'}g);
    }

    for $func (sort keys %{$file{uses_provided}}) {
        if ($file{uses}{$func}) {
            if (exists $file{uses_deps}{$func}) {
                diag("Uses $func, which depends on ", join(',', @{$file{uses_deps}{$func}}));
            } else {
                diag("Uses $func");
            }
        }
        $warnings += hint($func);
    }

    unless ($opt{quiet}) {
        for $func (sort keys %{$file{uses_todo}}) {
            print "*** WARNING: Uses $func, which may not be portable below perl ",
        }
format_version($API{$func}{todo}), ", even with \'$ppport\'\n";
$warnings++;
}
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = ";
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = ";
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_$func\_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_$func\_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_$func\_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*$HS*define$HS+NEED_$func\_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = ";

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : ";
    unless (exists $file{"needed_$type"}{$func}) {
      ...


if ($type eq 'global') {
    diag("Files [@ {global{needs}{$func}}] need $func, adding global request");
} else {
    diag("File needs $func, adding static request");
}

$pp .= "#define NEED_$func$suffix
";
}

if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+?)/$pp/m)) {
    $pp = ":
    $file{changes}++;
}

unless ($file{has_inc_ppport}) {
    diag("Needs to include 'ppport'");
    $pp .= qq(#include "$ppport\
"
)
}

if ($pp) {
    $file{changes} += ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+?)/$1$pp/ms
    || ($c =~ s/^(?=$HS*#$HS*include.*$ppport)/$pp/m)
    || ($c =~ s/^(?=$HS*#$HS*include.*XSUB.$\w+?)/$1$pp/m)
    || ($c =~ s/^/$pp/);
}
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include 'ppport'");
        $file{changes} += ($c =~ s/\w*?\w*include.*\Q$ppport\E.*?$LF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for ($ix = 0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}
if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';  
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ''; 
my $warn = $warnings ? " ($warnings warning$s)" : ''; 
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            }
            mydiff(*PATCH, $filename, $c);
        } else {
            fallback:
            info("Suggested changes:’");
            mydiff(*STDOUT, $filename, $c);
        }
    } else {
        fallback:
        info("Suggested changes:’");
        mydiff(*STDOUT, $filename, $c);
    }
}
else {
    my $s = $file{changes} == 1 ? 's' : 's';
    info("$file{changes} potentially required change$s detected");
}

else {
    info("Looks good");
}

close PATCH if $patch_opened;

exit 0;

sub try_use {
    eval "use @_;"; return $@ eq ""
}

sub mydiff {
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }
}
print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_; 
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = " ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;

        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        unlink $tmp;
    } else {
        error("Cannot open '$tmp' for writing: $!");
    }

    return undef;
}

sub rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
my $ver = shift;

if ($ver =~ /\(^d+\)/\(^d+\)/\(^d+\)/) {
    return ($1, $2, $3);
}
elsif ($ver !~ /\(^d+\)/\([d_]\)+$/) {
    die "cannot parse version "$ver\n";
}

$ver =~ s/_//g;
$ver =~ s/$/000000/;

my($r,$v,$s) = $ver =~ /\(^d+\)/\([d]\{3\})\([d]\{3\})/;

$v = int $v;
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version "$ver\n";
    }
}

return ($r, $v, $s);

sub format_version {
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\(^d+\)/\([d]\{3\})\([d]\{3\})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version "$ver\n";
        }
    }
    $s /= 10;

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_.%02d", $s;

    return $ver;
}
return sprintf "%.d.%.d.%.d", $r, $v, $s;
}

sub info
{
$opt{quiet} and return;
print @_, "\n";
}

sub diag
{
$opt{quiet} and return;
$opt{diag} and print @_, "\n";
}

sub warning
{
$opt{quiet} and return;
print "*** \n", @_, "\n";
}

sub error
{
print "*** ERROR: \n", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} & $given_warnings{$func}++) {
  my $warn = $warnings{$func};
  $warn =~ s!^!*** !mg;
  print "*** WARNING: \n$, $warn;
  $rv++;
}
if ($opt{hints} & exists $hints{$func} & $given_hints{$func}++) {
  my $hint = $hints{$func};
  $hint =~ s/^/   /mg;
  print "   --- hint for \n", $hint;
}
$rv;
}
sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/^\s*perl\s+perl\s+$/\$X $0/;
$usage =~ s/\([A-Z]\)<\([^{>]+\)>/$M{\1}$2$M{\1}/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}

sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> };
my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^\w+/ms;
$copy =~ s/^(?=\S+)/    /gms;
$self =~ s/^\$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (@ARGV && $ARGV[0] eq '--unstrip') {
eval { require Devel::PPPort ;
\$@ and die "Cannot require Devel::PPPort, please install.\n";
if (eval $Devel::PPPort::VERSION < $VERSION) {
  die "$0 was originally generated with Devel::PPPort $VERSION.\n"
    "Your Devel::PPPort is only version $Devel::PPPort::VERSION.\n"
    "Please install a newer version, or --unstrip will not work.\n";
  }
Devel::PPPort::WriteFile($0);
exit 0;
}
print <<END;
Sorry, but this is a stripped version of $0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:

\$^X $0 --unstrip

END

/\ms;
my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
open OUT, ">$0" or die "cannot strip $0: $!
";
print OUT "SplSc\n";
exit 0;
}

__DATA__
*

Found in path(s):
* /opt/cola/permits/1148335017_1619430679.79/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-SDFAmy0c/threads-1.87.tar.gz-cosi-expand-archive-RalrsEzL/threads-1.87/ppport.h
No license file was found, but licenses were detected in source scan.

Copyright 2006 - 2009 Jerry D. Hedden. All rights reserved.
This program is free software; you can redistribute it and/or modify it under
the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1148335017_1619430679.79/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-SDFAmy0c/threads-1.87.tar.gz-cosi-expand-archive-RalrsEzL/threads-1.87/examples/pool_reuse.pl
* /opt/cola/permits/1148335017_1619430679.79/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-SDFAmy0c/threads-1.87.tar.gz-cosi-expand-archive-RalrsEzL/threads-1.87/examples/pool.pl
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1148335017_1619430679.79/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-SDFAmy0c/perl-threads.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

threads - Perl interpreter-based threads

=head1 VERSION

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  53612
This document describes threads version 1.87

=head1 SYNOPSIS

use threads ('yield',
    'stack_size' => 64*4096,
    'exit' => 'threads_only',
    'stringify');

sub start_thread {  
    my @args = @_;  
    print('Thread started: ', join(' ', @args), "
    )  
    my $thr = threads->create('start_thread', 'argument');
    $thr->join();

    threads->create(sub { print("I am a thread\n"); })->join();

    my $thr2 = async { foreach (@files) { ... } };  
    $thr2->join();  
    if (my $err = $thr2->error()) {  
        warn("Thread error: $err\n");  
    }

    # Invoke thread in list context (implicit) so it can return a list
    my ($thr) = threads->create(sub { return (qw/a b c/); });
    # or specify list context explicitly
    my $thr = threads->create({'context' => 'list'},
        sub { return (qw/a b c/); });
    my @results = $thr->join();

    $thr->detach();

    # Get a thread's object
    $thr = threads->self();
    $thr = threads->object($tid);

    # Get a thread's ID
    $tid = threads->tid();
    $tid = $thr->tid();
    $tid = "$thr";

    # Give other threads a chance to run
    threads->yield();
    yield();

    # Lists of non-detached threads
    my @threads = threads->list();
my $thread_count = threads->list();

my @running = threads->list(threads::running);
my @joinable = threads->list(threads::joinable);

# Test thread objects
if ($thr1 == $thr2) {
    ...
}

# Manage thread stack size
$stack_size = threads->get_stack_size();
$old_size = threads->set_stack_size(32*4096);

# Create a thread with a specific context and stack size
my $thr = threads->create({ 'context' => 'list',
    'stack_size' => 32*4096,
    'exit' => 'thread_only' },
    \&foo);

# Get thread's context
my $wantarray = $thr->wantarray();

# Check thread's state
if ($thr->is_running()) {
    sleep(1);
}
if ($thr->is_joinable()) {
    $thr->join();
}

# Send a signal to a thread
$thr->kill('SIGUSR1');

# Exit a thread
threads->exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called
I<interpreter threads> which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between threads.

(Prior to Perl 5.8, I<5005threads> was available through the C<Thread.pm> API.
This threading model has been deprecated, and was removed as of Perl 5.10.0.)

As just mentioned, all variables are, by default, thread local. To use shared
variables, you need to also load \texttt{threads::shared}:

\begin{verbatim}
use threads;
use threads::shared;
\end{verbatim}

When loading \texttt{threads::shared}, you must \texttt{use threads} before you \texttt{use threads::shared}. (\texttt{threads} will emit a warning if you do it the other way around.)

It is strongly recommended that you enable threads via \texttt{use threads} as early as possible in your script.

If needed, scripts can be written so as to run on both threaded and non-threaded Perls:

\begin{verbatim}
my $can_use_threads = eval 'use threads; 1';
if ($can_use_threads) {
    # Do processing using threads
    ...
} else {
    # Do it without using threads
    ...
}
\end{verbatim}

\texttt{threads->create(FUNCTION, ARGS)}

This will create a new thread that will begin execution with the specified entry point function, and give it the I<ARGS> list as parameters. It will return the corresponding threads object, or \texttt{undef} if thread creation failed.

I<FUNCTION> may either be the name of a function, an anonymous subroutine, or a code ref.

\begin{verbatim}
my $thr = threads->create('func_name', ...);
# or
my $thr = threads->create(sub { ... }, ...);
# or
my $thr = threads->create(&func, ...);
\end{verbatim}

The \texttt{<Egt>new()> method is an alias for \texttt{<Egt>create()>}.

\texttt{threads->join()}

This will wait for the corresponding thread to complete its execution. When the thread finishes, \texttt{threads->join()} will return the return value(s) of the entry point function.
The context (void, scalar or list) for the return value(s) for \texttt{C-join()} is determined at the time of thread creation.

\begin{verbatim}
# Create thread in list context (implicit)
my ($thr1) = threads->create(sub {
    my @results = qw(a b c);
    return (@results);
});
# or (explicit)
my $thr1 = threads->create({'context' => 'list'},
    sub {
        my @results = qw(a b c);
        return (@results);
    });
# Retrieve list results from thread
my @res1 = $thr1->join();

# Create thread in scalar context (implicit)
my $thr2 = threads->create(sub {
    my $result = 42;
    return ($result);
});
# Retrieve scalar result from thread
my $res2 = $thr2->join();

# Create a thread in void context (explicit)
my $thr3 = threads->create({'void' => 1},
    sub { print("Hello, world\n"); });
# Join the thread in void context (i.e., no return value)
$thr3->join();
\end{verbatim}

See ["THREAD CONTEXT"] for more details.

If the program exits without all threads having either been joined or detached, then a warning will be issued.

Calling \texttt{C-join()} or \texttt{C-detach()} on an already joined thread will cause an error to be thrown.

\begin{verbatim}
=item $thr->detach()
\end{verbatim}

Makes the thread unjoinable, and causes any eventual return value to be discarded. When the program exits, any detached threads that are still running are silently terminated.

If the program exits without all threads having either been joined or detached, then a warning will be issued.
Calling `C<-E<gt>join()>` or `C<-E<gt>detach()>` on an already detached thread will cause an error to be thrown.

```perl
=item threads->detach()
```

Class method that allows a thread to detach itself.

```perl
=item threads->self()
```

Class method that allows a thread to obtain its own `threads` object.

```perl
=item $thr->tid()
```

Returns the ID of the thread. Thread IDs are unique integers with the main thread in a program being 0, and incrementing by 1 for every thread created.

```perl
=item threads->tid()
```

Class method that allows a thread to obtain its own ID.

```perl
=item "$thr"
```

If you add the `C<stringify>` import option to your `C<use threads>` declaration, then using a threads object in a string or a string context (e.g., as a hash key) will cause its ID to be used as the value:

```perl
use threads qw(stringify);
my $thr = threads->create(...);
print("Thread $thr started...
");  # Prints out: Thread 1 started...
```

```perl
=item threads->object($tid)
```

This will return the `threads` object for the `active` thread associated with the specified thread ID. If `C<$tid>` is the value for the current thread, then this call works the same as `C<-E<gt>self()>`. Otherwise, returns `C<undef>` if there is no thread associated with the TID, if the thread is joined or detached, if no TID is specified or if the specified TID is `undef`.

```perl
=item threads->yield()
```

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.

You may do `C<use threads qw(yield)>`, and then just use `C<yield()>` in your code.
=item threads->list()

=item threads->list(threads::all)

=item threads->list(threads::running)

=item threads->list(threads::joinable)

With no arguments (or using C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.

With a I<true> argument (using C<threads::running>), returns a list of all non-joined, non-detached I<threads> objects that are still running.

With a I<false> argument (using C<threads::joinable>), returns a list of all non-joined, non-detached I<threads> objects that have finished running (i.e., for which C<-E<gt>join()> will not I<block>).

=item $thr1->equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

if ($thr1 == $thr2) {
    print("Threads are the same\n");
}
# or
if ($thr1 != $thr2) {
    print("Threads differ\n");
}

(Thread comparison is based on thread IDs.)

=item async BLOCK;

C<async> creates a thread to execute the block immediately following it. This block is treated as an anonymous subroutine, and so must have a semicolon after the closing brace. Like C<threads-E<gt>create()>, C<async> returns a I<threads> object.

=item $thr->error()

Threads are executed in an C<eval> context. This method will return C<undef> if the thread terminates I<normally>. Otherwise, it returns the value of C<$@> associated with the thread's execution status in its C<eval> context.
This I<private> method returns the memory location of the internal thread structure associated with a threads object. For Win32, this is a pointer to the C<HANDLE> value returned by C<CreateThread> (i.e., C<HANDLE *>); for other platforms, it is a pointer to the C<pthread_t> structure used in the C<pthread_create> call (i.e., C<pthread_t *>).

This method is of no use for general Perl threads programming. Its intent is to provide other (XS-based) thread modules with the capability to access, and possibly manipulate, the underlying thread structure associated with a Perl thread.

Class method that allows a thread to obtain its own I<handle>.

If needed, a thread can be exited at any time by calling C<threads-E<gt>exit()>. This will cause the thread to return C<undef> in a scalar context, or the empty list in a list context.

When called from the I<main> thread, this behaves the same as C<exit(0)>.

When called from a thread, this behaves like C<threads-E<gt>exit()> (i.e., the exit status code is ignored).

When called from the I<main> thread, this behaves the same as C<exit(status)>.

Calling C<die()> in a thread indicates an abnormal exit for the thread. Any C<$SIG{__DIE__}> handler in the thread will be called first, and then the thread will exit with a warning message that will contain any arguments passed in the C<die()> call.
Calling `exit(EXPR)` inside a thread causes the whole application to terminate. Because of this, the use of `exit()` inside threaded code, or in modules that might be used in threaded applications, is strongly discouraged.

If `exit()` really is needed, then consider using the following:

```perl
threads->exit() if threads->can('exit');  # Thread friendly
exit(status);
```

This globally overrides the default behavior of calling `exit()` inside a thread, and effectively causes such calls to behave the same as `threads->exit()`. In other words, with this setting, calling `exit()` causes only the thread to terminate.

Because of its global effect, this setting should not be used inside modules or the like.

The `main` thread is unaffected by this setting.

```perl
threads->create({'exit' => 'thread_only'}, ...)
```

This overrides the default behavior of `exit()` inside the newly created thread only.

```perl
$thr->set_thread_exit_only(boolean)
```

This can be used to change the `exit thread only` behavior for a thread after it has been created. With a `true` argument, `exit()` will cause only the thread to exit. With a `false` argument, `exit()` will terminate the application.

The `main` thread is unaffected by this call.

```perl
set_thread_exit_only(boolean)
```

Class method for use inside a thread to change its own behavior for `exit()`.

The `main` thread is unaffected by this call.

=head1 THREAD STATE
The following boolean methods are useful in determining the I<state> of a thread.

=item $thr->is_running()

Returns true if a thread is still running (i.e., if its entry point function has not yet finished or exited).

=item $thr->is_joinable()

Returns true if the thread has finished running, is not detached and has not yet been joined. In other words, the thread is ready to be joined, and a call to C<$thr-E<gt>join()> will not I<block>.

=item $thr->is_detached()

Returns true if the thread has been detached.

=class threads->is_detached()

Class method that allows a thread to determine whether or not it is detached.

=head1 THREAD CONTEXT

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's I<context>:  list, scalar or void. The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via L<wantarray()> perlfunc"wantarray">. The thread may then specify a value of the appropriate type to be returned from C<-E<gt>join()>.

=head2 Explicit context

Because thread creation and thread joining may occur in different contexts, it may be desirable to state the context explicitly to the thread's entry point function. This may be done by calling C<-E<gt>create()> with a hash reference as the first argument:

    my $thr = threads->create({'context' => 'list'}, \&foo);
    ...
    my @results = $thr->join();

In the above, the threads object is returned to the parent thread in scalar
context, and the thread's entry point function \texttt{C\textless foo\textgreater} will be called in list (array) context such that the parent thread can receive a list (array) from the \texttt{C\textless-E\textless gt\textgreater join()} call. (\texttt{C\textless array\textgreater} is synonymous with \texttt{C\textless list\textgreater}.)

Similarly, if you need the threads object, but your thread will not be returning a value (i.e., \texttt{I\textless void\textgreater} context), you would do the following:

```perl
my $thr = threads->create({'context' => 'void'}, \&foo);
...
$thr->join();
```

The context type may also be used as the \texttt{I\textless key\textgreater} in the hash reference followed by a \texttt{I\textless true\textgreater} value:

```perl
threads->create({'scalar' => 1}, \&foo);
...
my ($thr) = threads->list();
my $result = $thr->join();
```

### Implicit context

If not explicitly stated, the thread's context is implied from the context of the \texttt{C\textless-E\textless gt\textgreater create()} call:

```perl
# Create thread in list context
my ($thr) = threads->create(...);

# Create thread in scalar context
my $thr = threads->create(...);

# Create thread in void context
threads->create(...);
```

### $thr->wantarray()

This returns the thread's context in the same manner as \texttt{L\textless wantarray\textgreater perlfunc\"wantarray\textgreater}.

### threads->wantarray()

Class method to return the current thread's context. This returns the same value as running \texttt{L\textless wantarray\textgreater perlfunc\"wantarray\textgreater} inside the current thread's entry point function.

### THREAD STACK SIZE

The default per-thread stack size for different platforms varies significantly, and is almost always far more than is needed for most
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applications. On Win32, Perl's makefile explicitly sets the default stack to 16 MB; on most other platforms, the system default is used, which again may be much larger than is needed.

By tuning the stack size to more accurately reflect your application's needs, you may significantly reduce your application's memory usage, and increase the number of simultaneously running threads.

Note that on Windows, address space allocation granularity is 64 KB, therefore, setting the stack smaller than that on Win32 Perl will not save any more memory.

=over

=item threads->get_stack_size();

Returns the current default per-thread stack size. The default is zero, which means the system default stack size is currently in use.

=item $size = $thr->get_stack_size();

Returns the stack size for a particular thread. A return value of zero indicates the system default stack size was used for the thread.

=item $old_size = threads->set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in a warning, and the minimum stack size will be used.

Some Linux platforms have a maximum stack size. Setting too large of a stack size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call C<pthread_attr_setstacksize()> I<(for pthreads platforms)> or supply the stack size to C<CreateThread()> I<(for Win32 Perl)>.

(Obviously, this call does not affect any currently extant threads.)

=item use threads ('stack_size' => VALUE);

This sets the default per-thread stack size at the start of the application.
The default per-thread stack size may be set at the start of the application through the use of the environment variable `PERL5_ITHREADS_STACK_SIZE`:

```
PERL5_ITHREADS_STACK_SIZE=1048576  
export PERL5_ITHREADS_STACK_SIZE  
perl -e'use threads; print(threads->get_stack_size(), "\n")'
```

This value overrides any `stack_size` parameter given to `use threads`. Its primary purpose is to permit setting the per-thread stack size for legacy threaded applications.

```
threads->create({
    'stack_size' => VALUE
 }, FUNCTION, ARGS)
```

To specify a particular stack size for any individual thread, call `create()` with a hash reference as the first argument:

```
my $thr = threads->create({
    'stack_size' => 32*4096
 }, \&foo, @args);
```

This creates a new thread (`$thr2`) that inherits the stack size from an existing thread (`$thr1`). This is shorthand for the following:

```
my $stack_size = $thr1->get_stack_size();
my $thr2 = threads->create({
    'stack_size' => $stack_size
 }, FUNCTION, ARGS);
```

=head1 THREAD SIGNALLING

When safe signals is in effect (the default behavior - see `Unsafe signals` for more details), then signals may be sent and acted upon by individual threads.

```
$thr->kill('SIG...');
```

Sends the specified signal to the thread. Signal names and (positive) signal numbers are the same as those supported by `kill()`.

```
$thr->kill('SIG...')->join();
```

Returns the thread object to allow for method chaining:
Signal handlers need to be set up in the threads for the signals they are expected to act upon. Here’s an example for cancelling a thread:

use threads;

sub thr_func
{
    # Thread ‘cancellation’ signal handler
    $SIG{'KILL'} = sub { threads->exit();};

    ...
}

# Create a thread
my $thr = threads->create('thr_func');

...

# Signal the thread to terminate, and then detach
# it so that it will get cleaned up automatically
$thr->kill('KILL')->detach();

Here’s another simplistic example that illustrates the use of thread signalling in conjunction with a semaphore to provide rudimentary suspend and resume capabilities:

use threads;
use Thread::Semaphore;

sub thr_func
{
    my $sema = shift;

    # Thread ‘suspend/resume’ signal handler
    $SIG{'STOP'} = sub {
        $sema->down();  # Thread suspended
        $sema->up();   # Thread resumes
    };

    ...
}

# Create a semaphore and pass it to a thread
my $sema = Thread::Semaphore->new();
my $thr = threads->create('thr_func', $sema);
# Suspend the thread
$sema->down();
$thr->kill('STOP');

...

# Allow the thread to continue
$sema->up();

CAVEAT: The thread signalling capability provided by this module does not
actually send signals via the OS. It I<emulates> signals at the Perl-level
such that signal handlers are called in the appropriate thread. For example,
sending C<$thr-E<gt>kIill('STOP')> does not actually suspend a thread (or the
whole process), but does cause a C<$SIG{'STOP'}> handler to be called in that
thread (as illustrated above).

As such, signals that would normally not be appropriate to use in the
C<kIill()> command (e.g., C<kIill('KILL', $$)> ) are okay to use with the
C<-E<gt>kIill()> method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation
the thread is currently working on: The signal will be acted upon after the
current operation has completed. For instance, if the thread is I<stuck> on
an I/O call, sending it a signal will not cause the I/O call to be interrupted
such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS

=over 4

=item Perl exited with active threads:

If the program exits without all threads having either been joined or
detached, then this warning will be issued.

NOTE: If the I<main> thread exits, then this warning cannot be suppressed
using C<no warnings 'threads'> as suggested below.

=item Thread creation failed: pthread_create returned #

See the appropriate I<man> page for C<pthread_create> to determine the actual
cause for the failure.

=item Thread # terminated abnormally: ...
A thread terminated in some manner other than just returning from its entry point function, or by using C<threads-E<gt>exit()>. For example, the thread may have terminated because of an error, or by using C<die>.

=item Using minimum thread stack size of #

Some platforms have a minimum thread stack size. Trying to set the stack size below this value will result in the above warning, and the stack size will be set to the minimum.

=item Thread creation failed: pthread_attr_setstacksize(I<SIZE>) returned 22

The specified I<SIZE> exceeds the system's maximum stack size. Use a smaller value for the stack size.

=back

If needed, thread warnings can be suppressed by using:

   no warnings 'threads';

in the appropriate scope.

=head1 ERRORS

=over 4

=item This Perl not built to support threads

The particular copy of Perl that you're trying to use was not built using the C<useithreads> configuration option.

Having threads support requires all of Perl and all of the XS modules in the Perl installation to be rebuilt; it is not just a question of adding the L<threads> module (i.e., threaded and non-threaded Perls are binary incompatible).

=item Cannot change stack size of an existing thread

The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:

   $thr->set_stack_size($size);

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the C<-E<gt>kill()> signalling method. See L</"Unsafe signals"> for more details.
Unrecognized signal name: ...

The particular copy of Perl that you're trying to use does not support the specified signal being used in a `C<-E<gt;kill()>` call.

BUGS AND LIMITATIONS

Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if what you've encountered is a known problem.

Thread-safe modules

See L<perlmod/Making your module threadsafe/> when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not I<thread-safe/>. For example, they may crash the Perl interpreter during execution, or may dump core on termination. Depending on the module and the requirements of your application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the module from inside the thread entry point function using C<require> (and C<import> if needed):

```perl
sub thr_func
{
    require Unsafe::Module
    # Unsafe::Module->import(...);

    ....
}
```

If the module is needed inside the I<main> thread, try modifying your application so that the module is loaded (again using C<require> and C<-E<gt;import()> after any threads are started, and in such a way that no other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file a bug report on L<http://rt.cpan.org/Public/> against the problematic module.
=item Memory consumption

On most systems, frequent and continual creation and destruction of threads can lead to ever-increasing growth in the memory footprint of the Perl interpreter. While it is simple to just launch threads and then `C<-E<gt>join()>` or `C<-E<gt>detach()>` them, for long-lived applications, it is better to maintain a pool of threads, and to reuse them for the work needed, using `L<queues|Thread::Queue>` to notify threads of pending work. The CPAN distribution of this module contains a simple example (F<examples/pool_reuse.pl>) illustrating the creation, use and monitoring of a pool of `I<reusable>` threads.

=item Current working directory

On all platforms except MSWin32, the setting for the current working directory is shared among all threads such that changing it in one thread (e.g., using `C<chdir()>`) will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory setting.

=item Environment variables

Currently, on all platforms except MSWin32, all `I<system>` calls (e.g., using `C<system()>` or back-ticks) made from threads use the environment variable settings from the `I<main>` thread. In other words, changes made to `C<%ENV>` in a thread will not be visible in `I<system>` calls made by that thread.

To work around this, set environment variables as part of the `I<system>` call. For example:

```perl
my $msg = 'hello';
system("FOO=$msg; echo \$FOO");  # Outputs 'hello' to STDOUT
```

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals

Signals are `I<caught>` by the main thread (thread ID = 0) of a script. Therefore, setting up signal handlers in threads for purposes other than `L</"THREAD SIGNALLING">` as documented above will not accomplish what is intended.

This is especially true if trying to catch `C<SIGALRM>` in a thread. To handle alarms in threads, set up a signal handler in the main thread, and then use `L</"THREAD SIGNALLING">` to relay the signal to the thread:
# Create thread with a task that may time out
my $thr->create(sub {
    threads->yield();
    eval {
        $SIG{ALRM} = sub { die("Timeout\n"); };
        alarm(10);
        ... # Do work here
        alarm(0);
    };
    if ($@ =~ /Timeout/) {
        warn("Task in thread timed out\n");
    }
});

# Set signal handler to relay SIGALRM to thread
$SIG{ALRM} = sub { $thr->kill('ALRM') };  

... # Main thread continues working

=item Parent-child threads

On some platforms, it might not be possible to destroy I<parent> threads while there are still existing I<child> threads.

=item Creating threads inside special blocks

Creating threads inside C<BEGIN>, C<CHECK> or C<INIT> blocks should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their handling until the interpreter is in a I<safe> state. See L<perl58delta/"Safe Signals"> and L<perlipc/"Deferred Signals (Safe Signals)"> for more details.

Safe signals is the default behavior, and the old, immediate, unsafe signalling behavior is only in effect in the following situations:

=over 4

=item * Perl has been built with C<PERL_OLD_SIGNALS> (see C<perl -V>).

=item * The environment variable C<PERL_SIGNALS> is set to C<unsafe> (see L<perlruntime/"PERL_SIGNALS">).

=item * The module L<Perl::Unsafe::Signals> is used.
If unsafe signals is in effect, then signal handling is not thread-safe, and the C<-E<gt;kill()> signalling method cannot be used.

=item Returning closures from threads

Returning closures from threads should not be relied upon. Depending on the Perl version and the application code, results may range from success, to (apparently harmless) warnings of leaked scalar, or all the way up to crashing of the Perl interpreter.

=item Returning objects from threads

Returning objects from threads does not work. Depending on the classes involved, you may be able to work around this by returning a serialized version of the object (e.g., using L<Data::Dumper> or L<Storable>), and then reconstituting it in the joining thread. If you're using Perl 5.10.0 or later, and if the class supports L<shared objects|threads::shared/"OBJECTS">, you can pass them via L<shared queues|Thread::Queue>.

=item END blocks in threads

It is possible to add L<END blocks|perlmod/"BEGIN, UNITCHECK, CHECK, INIT and END"> to threads by using L<require|perlfunc/"require VERSION"> or L<eval|perlfunc/"eval EXPR"> with the appropriate code. These C<END> blocks will then be executed when the thread's interpreter is destroyed (i.e., either during a C<-E<gt;join()> call, or at program termination).

However, calling any L<threads> methods in such an C<END> block will most likely I<fail> (e.g., the application may hang, or generate an error) due to mutexes that are needed to control functionality within the L<threads> module.

For this reason, the use of C<END> blocks in threads is B<strongly> discouraged.

=item Open directory handles

In perl 5.14 and higher, on systems other than Windows that do not support the C<fchdir> C function, directory handles (see L<opendir|perlfunc/"opendir DIRHANDLE,EXPR">) will not be copied to new threads. You can use the C<d_fchdir> variable in L<Config.pm|Config> to determine whether your system supports it.

In prior perl versions, spawning threads with open directory handles would crash the interpreter.

Perl Bugs and the CPAN Version of threads

Support for threads extends beyond the code in this module (i.e., threads.pm and threads.xs), and into the Perl interpreter itself. Older versions of Perl contain bugs that may manifest themselves despite using the latest version of threads from CPAN. There is no workaround for this other than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs with threads may result in warning messages concerning leaked scalars or unreferenced scalars. However, such warnings are harmless, and may safely be ignored.

You can search for threads related bug reports at L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems, patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=back

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO

threads Discussion Forum on CPAN:
L<http://www.cpanforum.com/dist/threads>

L<threads::shared>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Stack size discussion:
L<http://www.perlmonks.org/?node_id=532956>

=head1 AUTHOR

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=head1 ACKNOWLEDGEMENTS

Richard Soderberg <perl AT crystalflame DOT net> -
Helping me out tons, trying to find reasons for races and other weird bugs!

Simon Cozens <simon AT brecon DOT co DOT uk> -
Being there to answer zillions of annoying questions

Rocco Caputo <troc AT netrus DOT net>

Vipul Ved Prakash <mail AT vipul DOT net> -
Helping with debugging

Dean Arnold <darnold AT presicient DOT com> -
Stack size API

=cut

Found in path(s):
* /opt/cola/permits/1148335017_1619430679.79/0/perl-threads-1.87-4.el7-1.src.rpm-cosi-expand-archive-
  SDFAmy0c/threads-1.87.tar.gz-cosi-expand-archive-RalrsEzL/threads-1.87/lib/threads.pm

1.1197 jboss-metadata-ear 7.0.8.Final

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* Arabic Extended A (08A0 - 08FF)
* Arabic Presentation Forms-A (FDF0 - FDFD)
* Basic Latin (0000 - 007F)
* Latin-1 Supplement (0080 - 00FF)
* General Punctuation (2000 - 206F)
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structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

   a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above,

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1.1205 kmod 20 28.el7

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Finally, software patents pose a constant threat to the existence of
any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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1.1228 toml 3.6.3

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1.1230 xorg-x11-driv-void 1.4.1-2.el7.1

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  jar/org/springframework/plugin/core/OrderAwarePluginRegistry.java
* /opt/cola/permits/1177939664_1625570679.69/0/spring-plugin-core-1-2-0-release-sources-6-
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  jar/org/springframework/plugin/core/SimplePluginRegistry.java
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  jar/org/springframework/plugin/core/support/BeanListFactoryBean.java
1.1235 libsemanage 2.5-14.el7

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation
and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer’s own use and reverse
engineering for debugging such modifications.

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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

Preamble

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

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

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

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

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

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2. You may modify your copy or copies of the Library or any portion
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c) You must cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If
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sections when you distribute them as separate works. But when you
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.1239 jackson-databind 2.11.2

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1.1241 fdisk 2.31.1

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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@appendixsubsec Preamble

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

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

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

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a `"work based on the library"` and a `"work that uses the library"`. The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton/Classes/DCPathItemButton.m
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Pod::Spec.new do |
  s.name = "DCPathButton"
  s.version = "2.1.1"
  s.summary = "A beautiful button copy from Path®"
  s.description = <<-DESC
  DCPathButton is a menu button, design by an famous App Path®.
  Since Path® 4.0, it return to use a tab bar instead of a side bar,
  and also change the menu button. So I try to implement it and then
"
the DCPPathButton born :) 

DESC

s.homepage = "https://github.com/Tangdixi/DCPathButton"

s.license = {
:type => 'MIT',
:text => 'The DCPPathButton use the MIT license'
}

s.author = { "Tangdixi" => "Tangdixi@gmail.com" }

s.platform = :ios, '7.0'

s.source = {
:git => "https://github.com/Tangdixi/DCPathButton.git",
:tag => "2.1.1"
}

s.source_files = 'DCPathButton/Classes/*.{h,m}'

s.resources = ['"DCPathButton/Sounds/*"']

s.frameworks = ['QuartzCore','AudioToolbox']

s.requires_arc = true

end

Found in path(s):
* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/DCPathButton.podspec
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* /opt/cola/permits/1125758851_1613553092.69/0/tangdixi-dcpathbutton-2-1-3-0-ge4b13fb-tar-gz/Tangdixi-DCPathButton-39be410/README.md
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1.1259 libsepol 2.7-1

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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* /opt/cola/permits/1077227140_1601875516.12/0/stax2-api-3-1-1-redhat-3-sources-jar/org/codehaus/stax2/ri/typed/NumberUtil.java

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* /opt/cola/permits/1077227140_1601875516.12/0/stax2-api-3-1-1-redhat-3-sources-jar/org/codehaus/stax2/typed/Base64Variant.java
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* /opt/cola/permits/1077227140_1601875516.12/0/stax2-api-3-1-1-redhat-3-sources-jar/org/codehaus/stax2/typed/TypedXMLStreamReader.java
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```
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```
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1.4.18-sources-2-jar/com/thoughtworks/xstream/io/xml/AbstractDocumentReader.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1.4.18-sources-2-jar/com/thoughtworks/xstream/annotations/XStreamAliasType.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1.4.18-sources-2-jar/com/thoughtworks/xstream/persistence/FilePersistenceStrategy.java
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  jar/com/thoughtworks/xstream/io/xml/JDomDriver.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/converters/collections/MapConverter.java
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  jar/com/thoughtworks/xstream/io/xml/DomDriver.java
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  jar/com/thoughtworks/xstream/converters/ErrorWritingException.java
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  jar/com/thoughtworks/xstream/mapper/AbstractXmlFriendlyMapper.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/SqlTimeConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/CurrencyConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/extended/SqlDateConverter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/UUIDConverter.java
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njar/com/thoughtworks/xstream/io/StatefulWriter.java
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njar/com/thoughtworks/xstream/core/util/FastStack.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/persistence/StreamStrategy.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/persistence/FileStreamStrategy.java
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  jar/com/thoughtworks/xstream/mapper/DefaultMapper.java

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  jar/com/thoughtworks/xstream/converters/extended/package.html
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  jar/com/thoughtworks/xstream/converters/collections/package.html
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/converters/SingleValueConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/converters/basic/AbstractSingleValueConverter.java

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  jar/com/thoughtworks/xstream/io/json/JsonHierarchicalStreamWriter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/converters/SingleValueConverter.java

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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/basic/StringConverter.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/security/ProxyTypePermission.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/security/CGLIBProxyTypePermission.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/enums/EnumToStringConverter.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/StaxWriter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/persistence/XmlSet.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/core/util/Types.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/AbstractXmlDriver.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/ZonedDateTimeConverter.java  
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/LocalDateConverter.java  
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/LocalTimeConverter.java  
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/OffsetDateTimeConverter.java  
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/time/LocalDateTimeConverter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/ExtendedHierarchicalStreamReader.java
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  jar/com/thoughtworks/xstream/converters/extended/ISO8601SqlTimestampConverter.java

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  jar/com/thoughtworks/xstream/io/HierarchicalStreamWriter.java

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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2- jar/com/thoughtworks/xstream/converters/basic/BigDecimalConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2- jar/com/thoughtworks/xstream/converters/basic/BigIntegerConverter.java
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Manifest-Version: 1.0
Archiver-Version: Plexus Archiver
Created-By: Apache Maven
Built-By: joehni
Build-Jdk: 1.8.0_265
Specification-Title: XStream Core
Specification-Vendor: XStream
Implementation-Title: XStream Core
Implementation-Version: 1.4.18
Implementation-Vendor-Id: com.thoughtworks.xstream
Implementation-Vendor: XStream
Bundle-License: BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: XStream Core Sources
Bundle-SymbolicName: xstream.sources
Bundle-Vendor: XStream Sources
Bundle-Version: 1.4.18 Sources
Eclipse-SourceBundle: xstream;version=1.4.18
Specification-Version: 1.4
X-Build-Os: Linux
X-Build-Time: 2021-08-22T11:58:11Z
X-Builder: Maven 3.8.1
X-Compile-Source: 1.4
X-Compile-Target: 1.4

Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/META-INF/MANIFEST.MF
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jar/com/thoughtworks/xstream/converters/basic/ShortConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/basic/DoubleConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/basic/FloatConverter.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/basic/CharConverter.java
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jar/com/thoughtworks/xstream/converters/extended/ActivationDataFlavorConverter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2- jar/com/thoughtworks/xstream/core/util/Base64JAXBCodec.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2- jar/com/thoughtworks/xstream/core/StringCodec.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/converters/collections/SingletonCollectionConverter.java

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jar/com/thoughtworks/xstream/converters/reflection/SunUnsafeReflectionProvider.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/binary/BinaryStreamReader.java
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  jar/com/thoughtworks/xstream/io/xml/XppDomDriver.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/security/TypeHierarchyPermission.java
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  jar/com/thoughtworks/xstream/core/util/ArrayIterator.java
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  jar/com/thoughtworks/xstream/annotations/XStreamConverter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/io/xml/XStream11XmlFriendlyReplacer.java
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 * com.thoughtworks.xstream.converters.reflection.
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/core/util/SelfStreamingInstanceChecker.java
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jar/com/thoughtworks/xstream/io/xml/DomReader.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/path/PathTracker.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/xml/XppDomReader.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/xml/XppDomWriter.java
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  jar/com/thoughtworks/xstream/mapper/ClassAliasingMapper.java
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  jar/com/thoughtworks/xstream/security/PrimitiveTypePermission.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/Dom4JWriter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/AbstractXppDomDriver.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/Xpp3DomDriver.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/reflection/FieldUtil15.java
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* Created on 01. February 2007 by Joerg Schaible
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/reflection/AbstractAttributedCharacterIteratorAttributeConverter.java
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* Created on 06. July 2006 by Guilherme Silveira
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/persistence/XmlArrayList.java
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* Created on 11. August 2011 by Joerg Schaible, code from XppDom.
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/xml/xppdom/XppFactory.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/binary/BinaryStreamDriver.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/mapper/DynamicProxyMapper.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/reflection/MissingFieldException.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/converters/reflection/CGLIBEnhancedConverter.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/mapper/PackageAliasingMapper.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/converters/extended/PathConverter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/converters/basic/URIConverter.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/xml/StaxDriver.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/core/DefaultConverterLookup.java
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  jar/com/thoughtworks/xstream/converters/basic/StringBufferConverter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/io/xml/AbstractXmlWriter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/io/json/JettisonMappedXmlDriver.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/core/util/PrioritizedList.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/io/xml/xppdom/Xpp3Dom.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/binary/Token.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/converters/javabean/BeanProperty.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/io/AbstractDriver.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/converters/reflection/PureJavaReflectionProvider.java
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Found in path(s):
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/io/xml/AbstractDocumentWriter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
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* Created on 14. August 2004 by Joe Walnes
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/**
* A SAX {@link org.xml.sax.XMLReader} parser that acts as an XStream
* [com.thoughtworks.xstream.io.HierarchicalStreamWriter] to enable direct generation of a
* SAX event flow from the XStream serialization of a list of list of Java objects.
* <p>
* As a
* custom SAX parser, this class ignores the arguments of the two standard parse methods ([@link
* parse(java.lang.String)])
* and (@link parse(org.xml.sax.InputSource)) but relies on a proprietary SAX property
* [@link #SOURCE_OBJECT_LIST_PROPERTY] to define the list of objects to serialize.
* </p>
* </p>
* Configuration of this SAX parser is achieved through the standard
* [@link #setProperty SAX property mechanism]. While specific setter methods require direct
* access to the parser instance, SAX properties support configuration settings to be propagated
* through a chain of [@link org.xml.sax.XMLFilter filters] down to the underlying parser
* object.
* </p>
* </p>
* This mechanism shall be used to configure the
* [@link #SOURCE_OBJECT_LIST_PROPERTY objects to be serialized] as well as the
* [@link #CONFIGURED_XSTREAM_PROPERTY XStream facade].
* </p>
* @author Laurent Bihanic
*/
/**
* Sets the value of a property.
* <p>
* The property name is any fully-qualified URI. It is
* possible for an XMLReader to recognize a property name but
* to be unable to set its value. </p>
* </p>
* XMLReaders are not required to recognize setting any
* specific property names, though a core set is provided with
* SAX2. </p>
* </p>
* Some property values may be immutable or mutable only
* in specific contexts, such as before, during, or after
* a parse. </p>
* </p>
* This method is also the standard mechanism for setting
* extended handlers. </p>
* </p>
* @strong> Note</strong>: This implementation only supports two
*(proprietary) properties: [@link #CONFIGURED_XSTREAM_PROPERTY] and [@link #SOURCE_OBJECT_LIST_PROPERTY].</p>
*

* @param name  the property name, which is a fully-qualified URI.
* @param value the requested value for the property.
* @throws SAXNotRecognizedException when the XMLReader does not
* recognize the property name.
* @throws SAXNotSupportedException when the XMLReader recognizes
* the property name but cannot set
* the requested value.
* @see #getProperty
*/

/**
 * Parses an XML document from a system identifier (URI).
 * <p>
 * This method is a shortcut for the common case of reading a
 * document from a system identifier. It is the exact
 * equivalent of the following:</p>
 * <blockquote>
 *    <pre>
 *      parse(new InputSource(systemId));
 *    </pre>
 *  </blockquote>
 * <p>
 * If the system identifier is a URL, it must be fully resolved
 * by the application before it is passed to the parser.</p>
 * <p>
 * <strong>Note</strong>: As a custom SAX parser, this class
 * ignores the <code>systemId</code> argument of this method
 * and relies on the proprietary SAX property
 * [@link #SOURCE_OBJECT_LIST_PROPERTY]) to define the list of
 * objects to serialize.</p>
 *
* @param systemId the system identifier (URI).
* @throws SAXException Any SAX exception, possibly wrapping
*   another exception.
* @see #parse(org.xml.sax.InputSource)
*/
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2.jar/com/thoughtworks/xstream/io/xml/xppdom/XppDomComparator.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2.jar/com/thoughtworks/xstream/converters/collections/TreeSetConverter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/io/xml/JDom2Writer.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/io/xml/JDom2Reader.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/XStreamException.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/core/util/PresortedMap.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
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jar/com/thoughtworks/xstream/mapper/XmlFriendlyMapper.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/core/ReferenceByIdUnmarshaller.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
jar/com/thoughtworks/xstream/core/ReferenceByIdMarshaller.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/io/json/JettisonStaxWriter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-
  jar/com/thoughtworks/xstream/converters/extended/ToAttributedValueConverter.java
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* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/security/TypePermission.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/security/NoTypePermission.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/security/AnyTypePermission.java
* /opt/cola/permits/1209482410_1633086247.97/0/xstream-1-4-18-sources-2-jar/com/thoughtworks/xstream/security/ForbiddenClassException.java
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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1.1304 xalan 2.7.1-redhat-3

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* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xalan/xslt/Process.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xsltc/compiler/Comment.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xsltc/compiler/RelativeLocationPath.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xsltc/compiler/SymbolTable.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_ja.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/transformer/Counter.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/FormatNumberCall.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/trax/DOM2TO.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/WhitespaceInfoPaths.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/templates/ElemTextLiteral.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_cs.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/ProcessorAttributeSet.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/utils/PrefixResolver.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/UnsupportedElement.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/templates/Stylesheet.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/extensions/MethodResolver.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/utils/ObjectPool.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/res/XSLTErrorResources_sv.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/BooleanExpr.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/Instruction.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/functions/FuncFloor.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/utils/res/XResources_ja_JP_I.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/templates/KeyDeclaration.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/BooleanExpr.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/operations/Bool.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/Instruction.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages.java
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jar/org/apache/xpath/operations/Plus.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xpath/axes/WalkingIterator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xslt/runtime/Hashtable.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xsltc/compiler/Step.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xsltc/dom/ClonedNodeListIterator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xalan/xsltc/trax/SecuritySupport12.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources.jar/org/apache/xml/utils/DefaultErrorHandler.java

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jar/org/apache/xpath/jaxp/XPathImpl.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xslt/trax/TransformerImpl.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/utils/XMLString.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/trax/TransformerImpl.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/runtime/Operators.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/util/NodeCounterGenerator.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/CollatorFactory.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/utils/XMLChar.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_no.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/runtime/ErrorMessages_zh_TW.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/Expression.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/extensions/ExtensionHandlerJavaClass.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/utils/res/CharArrayWrapper.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/templates/ElemAttribute.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/compiler/Template.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/xsltc/functions/FuncLang.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/utils/res/CharArrayWrapper.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/transformer/NumeratorFormatter.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
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*/

// Proprietary
/** The 'document-location()' id (Proprietary). */

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*/
/**
* This is a special exception that is used to stop parsing when
* search for an element. For instance, when searching for xml:stylesheet
* PIs, it is used to stop the parse once the document element is found.
* @see StylesheetPIHandler
* @xsl.usage internal
*/

Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xml/utils/StopParseException.java
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*/
/*
* $Id$
*/
package org.apache.xalan;
/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */

public class Version
{

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * <CODE>"<B>Xalan</B> <B>Java</B> v.r[.dd| <B>D</B>nn]"</CODE>.
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */

public static String getVersion()
{
    return getProduct()+"+ImplementationLanguage()"+" "+getMajorVersionNum()+"."+getReleaseVersionNum()+"."+
    +( (getDevelopmentVersionNum() > 0) ? ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 * @param argv command line arguments, unused.
 */

public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */

public static String getProduct()
{
    return "Xalan";
/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a significant, externally apparent enhancement from the previous release. 'n' represents the n'th version.
 * Clients should carefully consider the implications of new versions as external interfaces and behaviour may have changed.
 */
public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg, implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance drop applied to a specific release and contains fixes for defects reported. It maintains compatibility with the release and contains no API changes.
 * When missing, it designates the final and complete
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if ((new String("@version.DEVELOPER@")).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    }
    catch (NumberFormatException nfe) {
        return 0;
    }
}

Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/Version.src

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*/

// Proprietary, built in functions
/** current function string (Proprietary). */

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* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/compiler/Keywords.java
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Found in path(s):
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* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/functions/package.html
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 */

// is found, then throw a special exception in order to terminate
Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java

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 */

/**
 * Execute the proprietary document-location() function, which returns
 * a node set of documents.
 * @xsl.usage advanced
 */

Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xpath/functions/FuncDoclocation.java

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* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-
jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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 * limitations under the License.
 */
/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

Found in path(s):
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/Version.java
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.src
* /opt/cola/permits/1077215937_1601874913.56/0/xalan-2-7-1-redhat-3-sources-jar/org/apache/xalan/processor/XSLProcessorVersion.java

1.1305 infinispan-cachestore-remote

5.2.1.Final

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

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That's all there is to it!

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license exceptions outlined later in this license agreement.

The GNU LGPL relaxes the "link-to" restriction, allowing you to
develop applications that use the CUPS and CUPS Imaging libraries
under other licenses and/or conditions as appropriate for your
application, driver, or filter.

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In addition, as the copyright holder of CUPS, Apple Inc. grants
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   or backends provided with CUPS shall not be
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   source code of the Apple OS-Developed Software.

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   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program’s name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate
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You should also get your employer (if you work as a programmer) or your
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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[This is the first released version of the library GPL. It is
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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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

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

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

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

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

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `\{ case (a, b) => ... \}
val x: ((Int, Int) => Int) = (((a, b)) => a)
^ 

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,
or consider a pattern matching anonymous function: `\{ case (param1, param2) => ... \}
val y: ((Int, Int, Int) => Int) = (((a, b)) => a)
^ 

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple3,
or consider a pattern matching anonymous function: `\{ case (param1, ..., param3) => ... \}
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
^ 

3 errors
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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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1.1359 idna 2.10

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A library to support the Internationalised Domain Names in Applications
(IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```python
import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}  
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
            'Programming Language :: Python :: 3',
            'Programming Language :: Python :: 3.4',
            'Programming Language :: Python :: 3.5',
            'Programming Language :: Python :: 3.6',
            'Programming Language :: Python :: 3.7',
            'Programming Language :: Python :: 3.8',
            'Programming Language :: Python :: Implementation :: CPython',
            'Programming Language :: Python :: Implementation :: PyPy',
            'Topic :: Internet :: Name Service (DNS)',
            'Topic :: Software Development :: Libraries :: Python Modules',
        ]
    }

    setup(**arguments)
```

'Topic :: Utilities',
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

1.1360 qdox 1.12

1.1361 perl-file-temp 0.23.01-3.el7
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  jar/org/springframework/asm/Type.java
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  jar/org/springframework/asm/FieldWriter.java
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  jar/org/springframework/asm/Edge.java
* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-
  jar/org/springframework/asm/FieldVisitor.java
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* /opt/ws_local/PERMITS_SQL/1072735584_1595111289.37/0/spring-core-4-3-22-release-sources-2-jar/org/springframework/core/io/InputStreamSource.java
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* [https://github.com/eclipse-ee4j/jaxrs-api](https://github.com/eclipse-ee4j/jaxrs-api)

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/* lib/font/fontfile/gunzip.c
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Validation Schema with validate.py

Using the Validator class

:Authors: `Michael Foord`_, `Nicola Larosa`_, `Mark Andrews`_
:Version: Validate 1.0.1
:Date: 2010/01/09
:Homepage: `Validate Homepage`_
:PyPI Entry: `Validate on Python Packaging Index <http://pypi.python.org/pypi/validate>`_
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.. _Mailing List: http://lists.sourceforge.net/lists/listinfo/configobj-develop
.. _Michael Foord: fuzzyman@voidspace.org.uk
.. _Nicola Larosa: nico@teknico.net
Introduction
============

Validation is used to check that supplied values conform to a specification.

The value can be supplied as a string, e.g. from a config file. In this case
the check will also *convert* the value to the required type. This allows you
to add validation as a transparent layer to access data stored as strings. The
validation checks that the data is correct *and* converts it to the expected
type.

Checks are also strings, and are easy to write. One generic system can be used
to validate information from different sources via a single consistent
mechanism.

Checks look like function calls, and map to function calls. They can include
parameters and keyword arguments. These arguments are passed to the relevant
function by the `Validator` instance, along with the value being checked.

The syntax for checks also allows for specifying a default value. This default
value can be `None`, no matter what the type of the check. This can be used
to indicate that a value was missing, and so holds no useful value.

Functions either return a new value, or raise an exception. See `Validator
Exceptions` for the low down on the exception classes that `validate.py`
defines.

Some standard functions are provided, for basic data types; these come built
into every validator. Additional checks are easy to write: they can be provided
when the `Validator` is instantiated, or added afterwards.

Validate was primarily written to support ConfigObj, but is designed to be
applicable to many other situations.

For support and bug reports please use the ConfigObj `Mailing List`.

.. _ConfigObj: http://www.voidspace.org.uk/python/configobj.html
Downloading
===============

The current version is **1.0.1**, dated 9th January 2010.

You can get obtain validate in the following ways:

Files
-----

* validate.py from Voidspace

* configobj.zip from Voidspace - See the homepage of ConfigObj for the latest version and download links.

  This contains validate.py and `this document` (As well as ConfigObj and the ConfigObj documentation).

* The latest development version can be obtained from the `Subversion Repository`.

Documentation
--------------

*configobj.zip* contains `this document`.

* You can view `this document` online as the `Validate Homepage`.

.. _configobj.py: http://www.voidspace.org.uk/cgi-bin/voidspace/download/configobj.py
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.. _Sourceforge: http://sourceforge.net/projects/configobj
.. _validate: http://www.voidspace.org.uk/python/validate.html

The standard functions
-----------------------

The standard functions come built-in to every `Validator` instance. They work with the following basic data types:

* integer
* float
* boolean
* string
* ip_addr
plus lists of these datatypes.

Adding additional checks is done through coding simple functions.

The full set of standard checks are:

:integer: matches integer values (including negative). Takes optional 'min' and 'max' arguments:

    integer()
    integer(3, 9)    # any value from 3 to 9
    integer(min=0) # any positive value
    integer(max=9)

:float: matches float values

    Has the same parameters as the integer check.

:boolean: matches boolean values: ``True`` or ``False``.

    Acceptable string values for True are:

        true, on, yes, 1

    Acceptable string values for False are:

        false, off, no, 0

    Any other value raises an error.

:string: matches any string. Takes optional keyword args 'min' and 'max' to specify min and max length of string.

:ip_addr: matches an Internet Protocol address, v.4, represented by a dotted-quad string, i.e. '1.2.3.4'.

:list: matches any list. Takes optional keyword args 'min', and 'max' to specify min and max sizes of the list. The list checks always return a list.

:force_list: matches any list, but if a single value is passed in will coerce it into a list containing that value. Useful for configobj if the user forgot the trailing comma to turn a single value into a list.

:tuple: matches any list. This check returns a tuple rather than a list.

:int_list: Matches a list of integers. Takes the same arguments as list.
::float_list': Matches a list of floats. Takes the same arguments as list.

::bool_list': Matches a list of boolean values. Takes the same arguments as list.

::string_list': Matches a list of strings. Takes the same arguments as list.

::ip_addr_list': Matches a list of IP addresses. Takes the same arguments as list.

::mixed_list': Matches a list with different types in specific positions.
List size must match the number of arguments.

Each position can be one of:

    int, str, boolean, float, ip_addr

So to specify a list with two strings followed by two integers, you write the check as:

    mixed_list(str, str, int, int)

::pass': matches everything: it never fails and the value is unchanged. It is also the default if no check is specified.

::option': matches any from a list of options.
   You specify this test with:

    option('option 1', 'option 2', 'option 3')

The following code will work without you having to specifically add the functions yourself.

.. code-block:: python

    from validate import Validator
    
    #
    vtor = Validator()
    newval1 = vtor.check('integer', value1)
    newval2 = vtor.check('boolean', value2)
    # etc ...

.. note::

    Of course, if these checks fail they raise exceptions. So you should wrap them in `try...except` blocks. Better still, use ConfigObj for a higher level interface.
Using Validator

Using ``Validator`` is very easy. It has one public attribute and one public method.

Shown below are the different steps in using ``Validator``.

The only additional thing you need to know, is about `Writing check functions`_.

Instantiate

----------

.. code-block:: python

    from validate import Validator
    vtor = Validator()

or even :

.. code-block:: python

    from validate import Validator
    #
    fdict = {
        'check_name1': function1,
        'check_name2': function2,
        'check_name3': function3,
    }
    #
    vtor = Validator(fdict)

The second method adds a set of your functions as soon as your validator is created. They are stored in the ``vtor.functions`` dictionary. The 'key' you give them in this dictionary is the name you use in your checks (not the original function name).

Dictionary keys/functions you pass in can override the built-in ones if you want.

Adding functions

----------

The code shown above, for adding functions on instantiation, has exactly the
same effect as the following code:

```python
from validate import Validator
#
vtor = Validator()
vtor.functions['check_name1'] = function1
vtor.functions['check_name2'] = function2
vtor.functions['check_name3'] = function3
```

```
vtor.functions`` is just a dictionary that maps names to functions, so we could also have called ``vtor.functions.update(fdict)``.

Writing the check
-----------------

As we've heard, the checks map to the names in the ``functions`` dictionary. You've got a full list of 'The standard functions' and the arguments they take.

If you're using ``Validator`` from ConfigObj, then your checks will look like:

```python
keyword = int_list(max=6)
```

but the check part will be identical.

The check method
-----------------

If you're not using ``Validator`` from ConfigObj, then you'll need to call the ``check`` method yourself.

If the check fails then it will raise an exception, so you'll want to trap that. Here's the basic example:

```python
from validate import Validator, ValidateError
#
vtor = Validator()
check = "integer(0, 9)"
value = 3
try:
    newvalue = vtor.check(check, value)
except ValidateError:
```
print 'Check Failed.'
else:
    print 'Check passed.'

.. caution::

    Although the value can be a string, if it represents a list it should already have been turned into a list of strings.

Default Values
~~~~~~~~~~~~~~

Some values may not be available, and you may want to be able to specify a default as part of the check.

You do this by passing the keyword ``missing=True`` to the ``check`` method, as well as a ``default=value`` in the check. (Constructing these checks is done automatically by ConfigObj: you only need to know about the ``default=value`` part):

.. code-block:: python

    check1 = 'integer(default=50)'
    check2 = 'option("val 1", "val 2", "val 3", default="val 1")'

    assert vtor.check(check1, '', missing=True) == 50
    assert vtor.check(check2, '', missing=True) == "val 1"

If you pass in ``missing=True`` to the check method, then the actual value is ignored. If no default is specified in the check, a ``ValidateMissingValue`` exception is raised. If a default is specified then that is passed to the check instead.

If the check has ``default=None`` (case sensitive) then `vtor.check` will *always* return ``None`` (the object). This makes it easy to tell your program that this check contains no useful value when missing, i.e. the value is optional, and may be omitted without harm.

.. note::

    As of version 0.3.0, if you specify  
    `default=None` (note the quote marks around ``None``) then it will be interpreted as the string ``'None'``.
List Values

It's possible that you would like your default value to be a list. It's even possible that you will write your own check functions - and would like to pass them keyword arguments as lists from within the check.

To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the "default" value. This makes checks look something like:

```python
checkname(default=list('val1', 'val2', 'val3'))
```

get_default_value

``Validator`` instances have a `get_default_value` method. It takes a `check` string (the same string you would pass to the `check` method) and returns the default value, converted to the right type. If the check doesn't define a default value then this method raises a `KeyError`.

If the `check` has been seen before then it will have been parsed and cached already, so this method is not expensive to call (however the conversion is done each time).

Validator Exceptions

.. note::

If you only use Validator through ConfigObj, it traps these Exceptions for you. You will still need to know about them for writing your own check functions.

`vtor.check` indicates that the check has failed by raising an exception. The appropriate error should be raised in the check function.

The base error class is `ValidateError`. All errors (except for `VdtParamError`) raised are sub-classes of this.

If an unrecognised check is specified then `VdtUnknownCheckError` is raised.

There are also `VdtTypeError` and `VdtValueError`.

If incorrect parameters are passed to a check function then it will (or should)
raise `VdtParamError`. As this indicates *programmer* error, rather than an error in the value, it is a subclass of `SyntaxError` instead of `ValidateError`.

.. note::

   This means it *won't* be caught by ConfigObj - but propagated instead.

If the value supplied is the wrong type, then the check should raise `VdtTypeError`, e.g. the check requires the value to be an integer (or representation of an integer) and something else was supplied.

If the value supplied is the right type, but an unacceptable value, then the check should raise `VdtValueError`, e.g. the check requires the value to be an integer (or representation of an integer) less than ten and a higher value was supplied.

Both `VdtTypeError` and `VdtValueError` are initialised with the incorrect value. In other words you raise them like this:

```
raise VdtTypeError(value)
#
raise VdtValueError(value)
```

`VdtValueError` has the following subclasses, which should be raised if they are more appropriate.

* `VdtValueTooSmallError`
* `VdtValueTooBigError`
* `VdtValueTooShortError`
* `VdtValueTooLongError`

Writing check functions

Writing check functions is easy.

The check function will receive the value as its first argument, followed by any other parameters and keyword arguments.

If the check fails, it should raise a `VdtTypeError` or a `VdtValueError` (or an appropriate subclass).

All parameters and keyword arguments are *always* passed as strings. (Parsed from the check string).
The value might be a string (or list of strings) and need converting to the right type - alternatively it might already be a list of integers. Our function needs to be able to handle either.

If the check passes then it should return the value (possibly converted to the right type).

And that's it!

Example
-------

Here is an example function that requires a list of integers. Each integer must be between 0 and 99.

It takes a single argument specifying the length of the list. (Which allows us to use the same check in more than one place). If the length can't be converted to an integer then we need to raise ``VdtParamError``.

Next we check that the value is a list. Anything else should raise a ``VdtTypeError``. The list should also have 'length' entries. If the list has more or less entries then we will need to raise a ``VdtValueTooShortError`` or a ``VdtValueTooLongError``.

Then we need to check every entry in the list. Each entry should be an integer between 0 and 99, or a string representation of an integer between 0 and 99. Any other type is a ``VdtTypeError``, any other value is a ``VdtValueError`` (either too big, or too small).

```python
def special_list(value, length):
    """
    Check that the supplied value is a list of integers, with 'length' entries, and each entry between 0 and 99.
    """
    # length is supplied as a string
    # we need to convert it to an integer
    try:
        length = int(length)
    except ValueError:
        raise VdtParamError('length', length)
    
    # Check the supplied value is a list
    if not isinstance(value, list):
        raise VdtTypeError(value)
    ```
# check the length of the list is correct
if len(value) > length:
    raise VdtValueTooLongError(value)
elif len(value) < length:
    raise VdtValueTooShortError(value)
#
# Next, check every member in the list
# converting strings as necessary
out = []
for entry in value:
    if not isinstance(entry, (str, unicode, int)):
        # a value in the list
        # is neither an integer nor a string
        raise VdtTypeError(value)
    elif isinstance(entry, (str, unicode)):
        if not entry.isdigit():
            raise VdtTypeError(value)
    else:
        entry = int(entry)
    if entry < 0:
        raise VdtValueTooSmallError(value)
    elif entry > 99:
        raise VdtValueTooBigError(value)
    out.append(entry)
#
# if we got this far, all is well
# return the new list
return out

If you are only using validate from ConfigObj then the error type (*TooBig*, *TooSmall*, etc) is lost - so you may only want to raise `VdtValueError`
.

.. caution::

If your function raises an exception that isn't a subclass of
``ValidateError`` then ConfigObj won't trap it. This means validation will fail.

This is why our function starts by checking the type of the value. If we are passed the wrong type (e.g. an integer rather than a list) we get a
``VdtTypeError`` rather than bombing out when we try to iterate over the value.

If you are using validate in another circumstance you may want to create your
own subclasses of ``ValidateError`` which convey more specific information.
Known Issues
============

The following parses and then blows up. The resulting error message is confusing:

```
```

This is because it parses as `checkname(default="list(1, 2, 3, 4)`.
That isn't actually unreasonable, but the error message won't help you work out what has happened.

TODO
=====

* A regex check function?
* A timestamp check function? (Using the ```parse``` function from ```DateUtil``` perhaps).

ISSUES
======

.. note::

Please file any bug reports to `Michael Foord` or the ConfigObj `Mailing List`.

If we could pull tuples out of arguments, it would be easier to specify arguments for 'mixed_lists'.

CHANGELOG
==========

2009/10/25 - Version 1.0.1
--------------------------

* BUGFIX: Fixed compatibility with Python 2.3.

2009/04/13 - Version 1.0.0
--------------------------

* BUGFIX: can now handle multiline strings.
* Addition of 'force_list' validation option.

As the API is stable and there are no known bugs or outstanding feature requests I am marking this 1.0.
2008/02/24 - Version 0.3.2
------------------------

BUGFIX: Handling of None as default value fixed.

2008/02/05 - Version 0.3.1
------------------------

BUGFIX: Unicode checks no longer broken.

2008/02/05 - Version 0.3.0
------------------------

Improved performance with a parse cache.

New `get_default_value` method. Given a check it returns the default value (converted to the correct type) or raises a `KeyError` if the check doesn't specify a default.

Added 'tuple' check and corresponding 'is_tuple' function (which always returns a tuple).

BUGFIX: A quoted 'None' as a default value is no longer treated as None, but as the string 'None'.

BUGFIX: We weren't unquoting keyword arguments of length two, so an empty string didn't work as a default.

BUGFIX: Strings no longer pass the 'is_list' check. Additionally, the list checks always return lists.

A couple of documentation bug fixes.

Removed CHANGELOG from module.

2007/02/04   Version 0.2.3
------------------------

Release of 0.2.3

2006/12/17   Version 0.2.3-alpha1
------------------------

By Nicola Larosa
Fixed validate doc to talk of `boolean` instead of `bool`; changed the `is_bool` function to `is_boolean` (Sourceforge bug #1531525).

2006/04/29 Version 0.2.2
-----------------------------

Addressed bug where a string would pass the `is_list` test. (Thanks to Konrad Wojas.)

2005/12/16 Version 0.2.1
-----------------------------

Fixed bug so we can handle keyword argument values with commas.

We now use a list constructor for passing list values to keyword arguments (including `default`):

```python
default=list("val", "val", "val")
```

Added the `__test__` test.

Moved a function call outside a try...except block.

2005/08/18 Version 0.2.0
-----------------------------

Updated by `Michael Foord` and `Nicola Larosa`

Does type conversion as well.

2005/02/01 Version 0.1.0
-----------------------------

Initial version developed by `Michael Foord` and Mark Andrews.

Found in path(s):
* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N41O/configobj-4.7.2.zip-cosi-expand-archive-mfhSEs8B/configobj-4.7.2/docs/validate.txt

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

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

Reading and Writing Config Files
Introduction

**ConfigObj** is a simple but powerful config file reader and writer: an *ini file round tripper*. Its main feature is that it is very easy to use, with a straightforward programmer's interface and a simple syntax for config files. It has lots of other features though:

* Nested sections (subsections), to any level
* List values
* Multiple line values
* String interpolation (substitution)
* Integrated with a powerful validation system
- including automatic type checking/conversion
- repeated sections
- and allowing default values

* When writing out config files, ConfigObj preserves all comments and the order of members and sections
* Many useful methods and options for working with configuration files (like the 'reload' method)
* Full Unicode support

For support and bug reports please use the ConfigObj `Mailing List`_ or the issue tracker on the `Google Code Homepage`_.

**Downloading**

The current version is **4.7.2**, dated 27th February 2010. ConfigObj 4 is stable and mature. We still expect to pick up a few bugs along the way though [#]_. You can get ConfigObj in the following ways:

* configobj.py_ from Voidspace

  ConfigObj has no external dependencies. This file is sufficient to access all the functionality except Validation_.

* configobj.zip_ from Voidspace

  This also contains validate.py_ and `this document`_.

* validate.py_ from Voidspace

**Installing**

ConfigObj has a source distribution `on PyPI <http://pypi.python.org/pypi/configobj/>`_. If you unzip the archive you can install it with::

    setup.py install

Alternatively, you can install with easy install or pip::

    easy_install configobj

**Documentation**
*configobj.zip* also contains `this document`_.

* You can view `this document`_ online at the `ConfigObj Homepage`_.

**Development Version**

It is sometimes possible to get the latest *development version* of ConfigObj from the Subversion Repository maintained on the `Google Code Homepage`_.

.. _configobj.py: http://www.voidspace.org.uk/downloads/configobj.py
.. _configobj.zip: http://www.voidspace.org.uk/downloads/configobj-4.7.2.zip
.. _validate.py: http://www.voidspace.org.uk/downloads/validate.py
.. _this document:
.. _configobj homepage: http://www.voidspace.org.uk/python/configobj.html

**ConfigObj in the Real World**

**ConfigObj** is widely used. Projects using it include:

* `Bazaar <http://bazaar-ng.org>`_.

  Bazaar is a Python distributed [acro;VCS;Version Control System].
  ConfigObj is used to read `bazaar.conf` and `branches.conf`.

* `Chandler <http://chandler.osafoundation.org/>`_.

  A Python and `wxPython <http://www.wxpython.org>`_ Personal Information Manager, being developed by the `OSAFoundation <http://www.osafoundation.org/>`_.

* `matplotlib <http://matplotlib.sourceforge.net/>`_.

  A 2D plotting library.

* `IPython <http://ipython.scipy.org/moin/>`_.

  IPython is an enhanced interactive Python shell. IPython uses ConfigObj in a module called 'TConfig' that combines it with enthought `Traits <http://code.enthought.com/trait/>`_ and `tconfig <http://ipython.scipy.org/ipython/ipython/browser/ipython/branches/saw/sandbox/tconfig>`_.

* `Elisa - the Fluendo Mediacenter <http://elisa.fluendo.com/>`_
Elisa is an open source cross-platform media center solution designed to be simple for people not particularly familiar with computers.

Getting Started
================

The outstanding feature of using ConfigObj is simplicity. Most functions can be performed with single line commands.

Reading a Config File
----------------------

The normal way to read a config file, is to give ConfigObj the filename :

```python
from configobj import ConfigObj
config = ConfigObj(filename)
```

You can also pass the config file in as a list of lines, or a `StringIO` instance, so it doesn't matter where your config data comes from.

You can then access members of your config file as a dictionary. Subsections will also be dictionaries.

```python
from configobj import ConfigObj
config = ConfigObj(filename)
#
value1 = config['keyword1']
value2 = config['keyword2']
#
section1 = config['section1']
value3 = section1['keyword3']
value4 = section1['keyword4']
#
# you could also write
value3 = config['section1']['keyword3']
value4 = config['section1']['keyword4']
```

Writing a Config File
----------------------
Creating a new config file is just as easy as reading one. You can specify a filename when you create the ConfigObj, or do it later [#].

If you *don't* set a filename, then the `write` method will return a list of lines instead of writing to file. See the `write` method for more details.

Here we show creating an empty ConfigObj, setting a filename and some values, and then writing to file:

```python
from configobj import ConfigObj
config = ConfigObj()
config.filename = filename
#
config['keyword1'] = value1
config['keyword2'] = value2
#
config['section1'] = {}
config['section1']['keyword3'] = value3
config['section1']['keyword4'] = value4
#
section2 = {
    'keyword5': value5,
    'keyword6': value6,
    'sub-section': {
        'keyword7': value7
    }
}
config['section2'] = section2
#
config['section3'] = {}
config['section3']['keyword 8'] = [value8, value9, value10]
config['section3']['keyword 9'] = [value11, value12, value13]
#
config.write()
```

.. caution::

Keywords and section names can only be strings [#]. Attempting to set anything else will raise a `ValueError`.

See `String Interpolation and List Values` for an important note on using lists in combination with `String Interpolation`. 

---

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 55267
Config Files
-----------

The config files that ConfigObj will read and write are based on the 'INI' format. This means it will read and write files created for `ConfigParser` [#].

Keywords and values are separated by an `'='`, and section markers are between square brackets. Keywords, values, and section names can be surrounded by single or double quotes. Indentation is not significant, but can be preserved.

Subsections are indicated by repeating the square brackets in the section marker. You nest levels by using more brackets.

You can have list values by separating items with a comma, and values spanning multiple lines by using triple quotes (single or double).

For full details on all these see `the config file format`_. Here's an example to illustrate::

```
# This is the 'initial_comment'
# Which may be several lines
keyword1 = value1
 'keyword 2' = 'value 2'

 [ "section 1" ]
 # This comment goes with keyword 3
 keyword 3 = value 3
 'keyword 4' = value4, value 5, 'value 6'

[[ sub-section ]]  # an inline comment
 # sub-section is inside "section 1"
 'keyword 5' = 'value 7'
 'keyword 6' = "A multiline value, that spans more than one line :-)
The line breaks are included in the value."

[[[ sub-sub-section ]]]
 # sub-sub-section is *in* 'sub-section'
 # which is in 'section 1'
 'keyword 7' = 'value 8'

[section 2]  # an inline comment
 keyword8 = "value 9"
 keyword9 = value10  # an inline comment
 # The 'final_comment'
 # Which also may be several lines
```
ConfigObj specifications
====================================

.. code-block:: python

    config = ConfigObj(infile=None, options=None, configspec=None, encoding=None,
                       interpolation=True, raise_errors=False, list_values=True,
                       create_empty=False, file_error=False, stringify=True,
                       indent_type=None, default_encoding=None, unrepr=False,
                       write_empty_values=False, _inspec=False)

Many of the keyword arguments are available as attributes after the config file has been parsed.

.. note::

    New in ConfigObj 4.7.0: Instantiating ConfigObj with
    an ``options`` dictionary is now deprecated. To modify code that used to
do this simply unpack the dictionary in the constructor call:

    .. code-block:: python

        config = ConfigObj(filename, **options)

ConfigObj takes the following arguments (with the default values shown):

* **infile:** `None`

  You don't need to specify an infile. If you omit it, an empty ConfigObj will be created. `infile` *can* be:

* Nothing. In which case the `filename` attribute of your ConfigObj will be `None`. You can set a filename at any time.

* A filename. What happens if the file doesn't already exist is determined by the options `file_error` and `create_empty`. The filename will be preserved as the `filename` attribute. This can be changed at any time.

* A list of lines. Any trailing newlines will be removed from the lines. The `filename` attribute of your ConfigObj will be `None`.

* A `StringIO` instance or file object, or any object with a `read` method. The `filename` attribute of your ConfigObj will be `None` [#]_.

* A dictionary. You can initialise a ConfigObj from a dictionary [#]_. The `filename` attribute of your ConfigObj will be `None`. All keys must be
strings. In this case, the order of values and sections is arbitrary.

* `raise_errors`: `False`

When parsing, it is possible that the config file will be badly formed. The default is to parse the whole file and raise a single error at the end. You can set `raise_errors = True` to have errors raised immediately. See the exceptions_ section for more details.

Altering this value after initial parsing has no effect.

* `list_values`: `True`

If `True` (the default) then list values are possible. If `False`, the values are not parsed for lists.

If `list_values = False` then single line values are not quoted or unquoted when reading and writing.

Changing this value affects whether single line values will be quoted or not when writing.

* `create_empty`: `False`

If this value is `True` and the file specified by `infile` doesn't exist, ConfigObj will create an empty file. This can be a useful test that the filename makes sense: an impossible filename will cause an error.

Altering this value after initial parsing has no effect.

* `file_error`: `False`

If this value is `True` and the file specified by `infile` doesn't exist, ConfigObj will raise an `IOError`.

Altering this value after initial parsing has no effect.

* `interpolation`: `True`

Whether string interpolation is switched on or not. It is on (`True`) by default.

You can set this attribute to change whether string interpolation is done when values are fetched. See the `String Interpolation` section for more details.

New in ConfigObj 4.7.0: Interpolation will also be done in list values.

* `configspec`: `None`
If you want to use the validation system, you supply a configspec. This is effectively a type of config file that specifies a check for each member. This check can be used to do type conversion as well as check that the value is within your required parameters.

You provide a configspec in the same way as you do the initial file: a filename, or list of lines, etc. See the validation_ section for full details on how to use the system.

When parsed, every section has a `configspec` with a dictionary of configspec checks for *that section*.

* `stringify`: `True`

If you use the validation scheme, it can do type checking *and* conversion for you. This means you may want to set members to integers, or other non-string values.

If `stringify` is set to `True` (default) then non-string values will be converted to strings when you write the config file. The validation_ process converts values from strings to the required type.

If `stringify` is set to `False`, attempting to set a member to a non-string value [#] will raise a `TypeError` (no type conversion is done by validation).

* `indent_type`: `''`

Indentation is not significant; it can however be present in the input and output config. Any combination of tabs and spaces may be used: the string will be repeated for each level of indentation. Typical values are: `''` (no indentation), `''   ` (indentation with four spaces, the default), `''	` (indentation with one tab).

If this option is not specified, and the ConfigObj is initialised with a dictionary, the indentation used in the output is the default one, that is, four spaces.

If this option is not specified, and the ConfigObj is initialised with a list of lines or a file, the indentation used in the first indented line is selected and used in all output lines. If no input line is indented, no output line will be either.

If this option *is* specified, the option value is used in the output config, overriding the type of indentation in the input config (if any).

* `encoding`: `None`
By default **ConfigObj** does not decode the file/strings you pass it into Unicode [#]. If you want your config file as Unicode (keys and members) you need to provide an encoding to decode the file with. This encoding will also be used to encode the config file when writing.

You can change the encoding attribute at any time.

Any characters in your strings that can't be encoded with the specified encoding will raise a `UnicodeEncodeError`.

```
.. note::

    `UTF16` encoded files will automatically be detected and decoded, even if `encoding` is `None`.

    This is because it is a 16-bit encoding, and ConfigObj will mangle it (split characters on byte boundaries) if it parses it without decoding.
```

* `default_encoding`: `None`

When using the `write` method, **ConfigObj** uses the `encoding` attribute to encode the Unicode strings. If any members (or keys) have been set as byte strings instead of Unicode, these must first be decoded to Unicode before outputting in the specified encoding.

`default_encoding`, if specified, is the encoding used to decode byte strings in the **ConfigObj** before writing. If this is `None`, then the Python default encoding (`sys.defaultencoding` - usually ASCII) is used.

For most Western European users, a value of `latin-1` is sensible.

`default_encoding` is *only* used if an `encoding` is specified.

Any characters in byte-strings that can't be decoded using the `default_encoding` will raise a `UnicodeDecodeError`.

* `unrepr`: `False`

The `unrepr` option reads and writes files in a different mode. This allows you to store and retrieve the basic Python data-types using config files.

This uses Python syntax for lists and quoting. See `unrepr mode` for the full details.

* `write_empty_values`: `False`
If `'write_empty_values` is `'True``, empty strings are written as empty values. See `Empty Values`_ for more details.

* `_inspec`: `'False`'

Used internally by ConfigObj when parsing configspec files. If you are creating a ConfigObj instance from a configspec file you must pass True for this argument as well as `'list_values=False`".

Methods
-------

The ConfigObj is a subclass of an object called `Section`, which is itself a subclass of `dict`, the builtin dictionary type. This means it also has **all** the normal dictionary methods.

In addition, the following `Section Methods`_ may be useful:

* `restore_default`
* `restore_defaults`
* `walk`
* `merge`
* `dict`
* `as_bool`
* `as_float`
* `as_int`
* `as_list`

Read about Sections_ for details of all the methods.

.. hint::

    The *merge* method of sections is a recursive update.

You can use this to merge sections, or even whole ConfigObjs, into each other.

You would typically use this to create a default ConfigObj and then merge in user settings. This way users only need to specify values that are different from the default. You can use configspecs and validation to achieve the same thing of course.

The public methods available on ConfigObj are:

* `write`
* 'validate'
* 'reset'
* 'reload'

write
~~~~~~

.. code-block:: python

    write(file_object=None)

This method writes the current ConfigObj and takes a single, optional argument [#]_.

If you pass in a file like object to the `write` method, the config file will be written to this. (The only method of this object that is used is its `write` method, so a `StringIO` instance, or any other file like object will work.)

Otherwise, the behaviour of this method depends on the `filename` attribute of the ConfigObj.

`filename`

ConfigObj will write the configuration to the file specified.

`None`

`write` returns a list of lines. (Not `'
'` terminated)

First the 'initial_comment' is written, then the config file, followed by the 'final_comment'. Comment lines and inline comments are written with each key/value.

validate
~~~~~~~

.. code-block:: python

    validate(validator, preserve_errors=False, copy=False)

.. code-block:: python

    # filename is the config file
    # filename2 is the configspec
    # (which could also be hardcoded into your program)
    config = ConfigObj(filename, configspec=filename2)

---
from validate import Validator
val = Validator()
test = config.validate(val)
if test == True:
    print 'Succeeded.'

The validate method uses the `validate` <http://www.voidspace.org.uk/python/validate.html>` module to do the validation.

This method validates the ConfigObj against the configspec. By doing type conversion as well it can abstract away the config file altogether and present the config *data* to your application (in the types it expects it to be).

If the `configspec` attribute of the ConfigObj is `None`, it raises a `ValueError`.

If the `stringify_` attribute is set, this process will convert values to the type defined in the configspec.

The validate method uses checks specified in the configspec and defined in the `Validator` object. It is very easy to extend.

The configspec looks like the config file, but instead of the value, you specify the check (and any default value). See the validation_ section for details.

.. hint:

The system of configspecs can seem confusing at first, but is actually quite simple and powerful. The best guide to them is this article on ConfigObj:

```
* `An Introduction to ConfigObj`
```

The `copy` parameter fills in missing values from the configspec (default values), *without* marking the values as defaults. It also causes comments to be copied from the configspec into the config file. This allows you to use a configspec to create default config files. (Normally default values aren't written out by the `write` method.)

As of ConfigObj 4.3.0 you can also pass in a ConfigObj instance as your configspec. This is especially useful if you need to specify the encoding of your configspec file. When you read your configspec file, you *must* specify `list_values=False`. If you need to support hashes inside the configspec values then you must also pass in `_inspec=True`. This is because configspec files actually use a different syntax to config files and inline comment support
must be switched off to correctly read configspec files with hashes in the values.

```python
from configobj import ConfigObj
configspec = ConfigObj(configspecfilename, encoding='UTF8',
                        list_values=False, _inspec=True)
config = ConfigObj(filename, configspec=configspec)
```

Return Value
-------------

By default, the validate method either returns `True` (everything passed) or a dictionary of `True` / `False` representing pass/fail. The dictionary follows the structure of the ConfigObj.

If a whole section passes then it is replaced with the value `True`. If a whole section fails, then it is replaced with the value `False`.

If a value is missing, and there is no default in the check, then the check automatically fails.

The `validate` method takes an optional keyword argument `preserve_errors`. If you set this to `True`, instead of getting `False` for failed checks you get the actual error object from the `validate` module. This usually contains useful information about why the check failed.

See the `flatten_errors` function for how to turn your results dictionary into a useful list of error messages.

Even if `preserve_errors` is `True`, missing keys or sections will still be represented by a `False` in the results dictionary.

Mentioning Default Values
-------------------------------

In the check in your configspec, you can specify a default to be used - by using the `default` keyword. E.g. ::

```python
key1 = integer(0, 30, default=15)
key2 = integer(default=15)
key3 = boolean(default=True)
key4 = option('Hello', 'Goodbye', 'Not Today', default='Not Today')
```

If the configspec check supplies a default and the value is missing in the
config, then the default will be set in your ConfigObj. (It is still passed to the `Validator` so that type conversion can be done: this means the default value must still pass the check.)

ConfigObj keeps a record of which values come from defaults, using the `defaults` attribute of sections_. Any key in this list isn't written out by the `write` method. If a key is set from outside (even to the same value) then it is removed from the `defaults` list.

.. note:

Even if all the keys in a section are in the defaults list, the section marker is still written out.

There is additionally a special case default value of `None`. If you set the default value to `None` and the value is missing, the value will always be set to `None`. As the other checks don't return `None` (unless you implement your own that do), you can tell that this value came from a default value (and was missing from the config file). It allows an easy way of implementing optional values. Simply check (and ignore) members that are set to `None`.

.. note::

If `stringify_` is `False` then `default=None` returns `' '` instead of `None`. This is because setting a value to a non-string raises an error if `stringify` is unset.

The default value can be a list. See `List Values` for the way to do this.

Writing invalid default values is a *guaranteed* way of confusing your users. Default values **must** pass the check.

### Mentioning Repeated Sections and Values

In the configspec it is possible to cause *every* sub-section in a section to be validated using the same configspec. You do this with a section in the configspec called `__many__`. Every sub-section in that section has the `__many__` configspec applied to it (without you having to explicitly name them in advance).

Your `__many__` section can have nested subsections, which can also include `__many__` type sections.

You can also specify that all values should be validated using the same configspec, by having a member with the name `__many__`. If you want to use repeated values
along with repeated sections then you can call one of them `___many___` (triple underscores).

Sections with repeated sections or values can also have specifically named sub-sections or values. The `___many___` configspec will only be used to validate entries that don't have an explicit configspec.

See `Repeated Sections` for examples.

#### Mentioning SimpleVal

If you just want to check if all members are present, then you can use the `SimpleVal` object that comes with ConfigObj. It only fails members if they are missing.

Write a configspec that has all the members you want to check for, but set every section to `''`

```python
val = SimpleVal()
test = config.validate(val)
if test is True:
    print 'Succeeded.'
```

#### Mentioning copy Mode

As discussed in `Mentioning Default Values`, you can use a configspec to supply default values. These are marked in the ConfigObj instance as defaults, and *not* written out by the `write` mode. This means that your users only need to supply values that are different from the defaults.

This can be inconvenient if you *do* want to write out the default values, for example to write out a default config file.

If you set `copy=True` when you call validate, then no values are marked as defaults. In addition, all comments from the configspec are copied into your ConfigObj instance. You can then call `write` to create your config file.

There is a limitation with this. In order to allow `String Interpolation` to work within configspecs, `DEFAULT` sections are not processed by validation; even in copy mode.
reload

If a ConfigObj instance was loaded from the filesystem, then this method will reload it. It will also reuse any configspecc you supplied at instantiation (including reloading it from the filesystem if you passed it in as a filename).

If the ConfigObj does not have a filename attribute pointing to a file, then a `ReloadError` will be raised.

reset

This method takes no arguments and doesn't return anything. It restores a ConfigObj instance to a freshly created state.

Attributes

A ConfigObj has the following attributes:

* indent_type
* interpolation
* stringify
* BOM
* initial_comment
* final_comment
* list_values
* encoding
* default_encoding
* unrepr
* write_empty_values
* newlines

.. note::

   This doesn't include *comments*, *inline_comments*, *defaults*, or *configspec*. These are actually attributes of Sections.

It also has the following attributes as a result of parsing. They correspond to options when the ConfigObj was created, but changing them has no effect.

* raise_errors
* create_empty
* file_error
interpolation

~~~~~~~~~~~~~~

`ConfigObj` can perform string interpolation in a *similar* way to
``ConfigParser``. See the `String Interpolation`_ section for full details.

If ``interpolation`` is set to ``False``, then interpolation is *not* done when
you fetch values.

stringify

~~~~~~~~~

If this attribute is set (``True``) then the validate_ method changes the
values in the `ConfigObj`. These are turned back into strings when write_ is
called.

If stringify is unset (``False``) then attempting to set a value to a non
string (or a list of strings) will raise a ``TypeError``.

BOM

~~~

If the initial config file *started* with the UTF8 Unicode signature (known
slightly incorrectly as the BOM - Byte Order Mark), or the UTF16 BOM, then
this attribute is set to ``True``. Otherwise it is ``False``.

If it is set to ``True`` when ``write`` is called then, if ``encoding`` is set
to ``None`` *or* to ``utf_8`` (and variants) a UTF BOM will be written.

For UTF16 encodings, a BOM is *always* written.

initial_comment

~~~~~~~~~~~~~~

This is a list of lines. If the `ConfigObj` is created from an existing file, it
will contain any lines of comments before the start of the members.

If you create a new `ConfigObj`, this will be an empty list.

The write method puts these lines before it starts writing out the members.

final_comment
This is a list of lines. If the ConfigObj is created from an existing file, it will contain any lines of comments after the last member.

If you create a new ConfigObj, this will be an empty list.

The `write` method puts these lines after it finishes writing out the members.

`list_values`

This attribute is `True` or `False`. If set to `False` then values are not parsed for list values. In addition single line values are not unquoted.

This allows you to do your own parsing of values. It exists primarily to support the reading of the configspec_ - but has other use cases.

For example you could use the `LineParser` from the `listquote` module <http://www.voidspace.org.uk/python/listquote.html#lineparser>_ to read values for nested lists.

Single line values aren't quoted when writing - but multiline values are handled as normal.

.. caution::

   Because values aren't quoted, leading or trailing whitespace can be lost. This behaviour was changed in version 4.0.1. Prior to this, single line values might have been quoted; even with `list_values=False`. This means that files written by earlier versions of ConfigObj *could* now be incompatible and need the quotes removing by hand.

`encoding`

This is the encoding used to encode the output, when you call `write`. It must be a valid encoding `recognised by Python <http://docs.python.org/lib/standard-encodings.html>_`.

If this value is `None` then no encoding is done when `write` is called.

`default_encoding`

If encoding is set, any byte-strings in your ConfigObj instance (keys or members) will first be decoded to Unicode using the encoding specified by the
``default_encoding`` attribute. This ensures that the output is in the encoding specified.

If this value is ``None`` then ``sys.defaultencoding`` is used instead.

unrepr
~~~~~~

Another boolean value. If this is set, then `repr(value)` is used to write values. This writes values in a slightly different way to the normal ConfigObj file syntax.

This preserves basic Python data-types when read back in. See `unrepr mode` for more details.

write_empty_values
~~~~~~~~~~~~~~~~~~

Also boolean. If set, values that are an empty string ('''') are written as empty values. See `Empty Values` for more details.

newlines
~~~~~~~

When a config file is read, ConfigObj records the type of newline separators in the file and uses this separator when writing. It defaults to ```None```, and ConfigObj uses the system default (`os.sep`) if write is called without newlines having been set.

The Config File Format
~~~~~~~~~~~~~~~~~~~~~~

You saw an example config file in the `Config Files` section. Here is a fuller specification of the config files used and created by ConfigObj.

The basic pattern for keywords is:

```
# comment line
# comment line
keyword = value # inline comment
```

Both keyword and value can optionally be surrounded in quotes. The equals sign is the only valid divider.
Values can have comments on the lines above them, and an inline comment after them. This, of course, is optional. See the comments_ section for details.

If a keyword or value starts or ends with whitespace, or contains a quote mark or comma, then it should be surrounded by quotes. Quotes are not necessary if whitespace is surrounded by non-whitespace.

Values can also be lists. Lists are comma separated. You indicate a single member list by a trailing comma. An empty list is shown by a single comma:

```plaintext
keyword1 = value1, value2, value3
keyword2 = value1, # a single member list
keyword3 = , # an empty list
```

Values that contain line breaks (multi-line values) can be surrounded by triple quotes. These can also be used if a value contains both types of quotes. List members cannot be surrounded by triple quotes:

```plaintext
keyword1 = ''' A multi line value
on several
lines'''' # with a comment
keyword2 = '''I won't be "afraid".'''
#
keyword3 = '""" A multi line value
on several
lines"""" # with a comment
keyword4 = '""""I won't be "afraid".""""
```

.. warning::

There is no way of safely quoting values that contain both types of triple quotes.

A line that starts with a '#', possibly preceded by whitespace, is a comment.

New sections are indicated by a section marker line. That is the section name in square brackets. Whitespace around the section name is ignored. The name can be quoted with single or double quotes. The marker can have comments before it and an inline comment after it:

```plaintext
# The First Section
[ section name 1 ] # first section
keyword1 = value1

# The Second Section
[ "section name 2" ] # second section
keyword2 = value2
```
Any subsections (sections that are *inside* the current section) are designated by repeating the square brackets before and after the section name. The number of square brackets represents the nesting level of the sub-section. Square brackets may be separated by whitespace; such whitespace, however, will not be present in the output config written by the ``write`` method.

Indentation is not significant, but can be preserved. See the description of the ``indent_type`` option, in the `ConfigObj specifications`_ chapter, for the details.

A *NestingError* will be raised if the number of the opening and the closing brackets in a section marker is not the same, or if a sub-section's nesting level is greater than the nesting level of its parent plus one.

In the outer section, single values can only appear before any sub-section. Otherwise they will belong to the sub-section immediately before them::

    # initial comment
    keyword1 = value1
    keyword2 = value2

    [section 1]
    keyword1 = value1
    keyword2 = value2

    [[[sub-section]]]
    # this is in section 1
    keyword1 = value1
    keyword2 = value2

    [[[nested section]]]
    # this is in sub section
    keyword1 = value1
    keyword2 = value2

    [[[sub-section2]]]
    # this is in section 1 again
    keyword1 = value1
    keyword2 = value2

    [[[sub-section3]]]
    # this is also in section 1, indentation is misleading here
    keyword1 = value1
    keyword2 = value2

    # final comment

When parsed, the above config file produces the following data structure:
.. code-block:: python

    ConfigObj({
        'keyword1': 'value1',
        'keyword2': 'value2',
        'section 1': {
            'keyword1': 'value1',
            'keyword2': 'value2',
            'sub-section': {
                'keyword1': 'value1',
                'keyword2': 'value2',
                'nested section': {
                    'keyword1': 'value1',
                    'keyword2': 'value2',
                },
            },
            'sub-section2': {
                'keyword1': 'value1',
                'keyword2': 'value2',
            },
            'sub-section3': {
                'keyword1': 'value1',
                'keyword2': 'value2',
            },
        },
    })

Sections are ordered: note how the structure of the resulting ConfigObj is in the same order as the original file.

.. note::

    In ConfigObj 4.3.0 *empty values* became valid syntax. They are read as the empty string. There is also an option/attribute (``write_empty_values``) to allow the writing of these.

    This is mainly to support 'legacy' config files, written from other applications. This is documented under 'Empty Values'_.

    `unrepr mode`_ introduces *another* syntax variation, used for storing basic Python datatypes in config files.

Sections
======
Every section in a ConfigObj has certain properties. The ConfigObj itself also has these properties, because it too is a section (sometimes called the *root section*).

``Section`` is a subclass of the standard new-class dictionary, therefore it has **all** the methods of a normal dictionary. This means you can `update` and `clear` sections.

.. note::

You create a new section by assigning a member to be a dictionary.

The new `Section` is created from the dictionary, but isn't the same thing as the dictionary. (So references to the dictionary you use to create the section aren't references to the new section).

Note the following.

.. code-block:: python

    config = ConfigObj()
    vals = {'key1': 'value 1',
            'key2': 'value 2'}
    config['vals'] = vals
    config['vals'] == vals
    True
    config['vals'] is vals
    False

If you now change `vals`, the changes won't be reflected in `config['vals']`.

A section is ordered, following its `scalars` and `sections` attributes documented below. This means that the following dictionary attributes return their results in order.

* `__iter__`

  More commonly known as `for member in section:`.

* `__repr__` and `__str__`

  Any time you print or display the ConfigObj.

* `items`

* `iteritems`
* 'iterkeys'

* 'itervalues'

* 'keys'

* 'popitem'

* 'values'

Section Attributes
--------------------

* main

A reference to the main ConfigObj.

* parent

A reference to the 'parent' section, the section that this section is a member of.

On the ConfigObj this attribute is a reference to itself. You can use this to walk up the sections, stopping when `section.parent is section`.

* depth

The nesting level of the current section.

If you create a new ConfigObj and add sections, 1 will be added to the depth level between sections.

* defaults

This attribute is a list of scalars that came from default values. Values that came from defaults aren't written out by the `write` method. Setting any of these values in the section removes them from the defaults list.

* default_values

This attribute is a dictionary mapping keys to the default values for the keys. By default it is an empty dictionary and is populated when you validate the ConfigObj.

* scalars, sections
These attributes are normal lists, representing the order that members, single values and subsections appear in the section. The order will either be the order of the original config file, or the order that you added members.

The order of members in this lists is the order that `write` creates in the config file. The `scalars` list is output before the `sections` list.

Adding or removing members also alters these lists. You can manipulate the lists directly to alter the order of members.

.. warning::

   If you alter the `scalars`, `sections`, or `defaults` attributes so that they no longer reflect the contents of the section, you will break your ConfigObj.

See also the `rename` method.

* comments

   This is a dictionary of comments associated with each member. Each entry is a list of lines. These lines are written out before the member.

* inline_comments

   This is another dictionary of comments associated with each member. Each entry is a string that is put inline with the member.

* configspec

   The configspec attribute is a dictionary mapping scalars to checks. A check defines the expected type and possibly the allowed values for a member.

   The configspec has the same format as a config file, but instead of values it has a specification for the value (which may include a default value). The validate method uses it to check the config file makes sense. If a configspec is passed in when the ConfigObj is created, then it is parsed and broken up to become the `configspec` attribute of each section.

   If you didn't pass in a configspec, this attribute will be `None` on the root section (the main ConfigObj).

   You can set the configspec attribute directly on a section.
See the validation_ section for full details of how to write configspecs.

* extra_values

By default an empty list. After validation_ this is populated with any members of the section that don't appear in the configspec (i.e. they are additional values). Rather than accessing this directly it may be more convenient to get all the extra values in a config file using the get_extra_values_ function.

New in ConfigObj 4.7.0.

Section Methods
---------------

* **dict**

This method takes no arguments. It returns a deep copy of the section as a dictionary. All subsections will also be dictionaries, and list values will be copies, rather than references to the original [#]_.

* **rename**

  `rename(oldkey, newkey)`

This method renames a key, without affecting its position in the sequence.

* **merge**

  `merge(indict)`

This method is a *recursive update* method. It allows you to merge two config files together.

You would typically use this to create a default ConfigObj and then merge in user settings. This way users only need to specify values that are different from the default.

For example:

```python
.. code-block:: python

    # def_cfg contains your default config settings
    # user_cfg contains the user settings
    cfg = ConfigObj(def_cfg)
    usr = ConfigObj(user_cfg)
    #
    cfg.merge(usr)
```
cfg now contains a combination of the default settings and the user settings.

The user settings will have overwritten any of the default ones.

**walk**

This method can be used to transform values and names. See `walking a section` for examples and explanation.

**as_bool**

``as_bool(key)`

Returns `True` if the key contains a string that represents `True`, or is the `True` object.

Returns `False` if the key contains a string that represents `False`, or is the `False` object.

Raises a `ValueError` if the key contains anything else.

Strings that represent `True` are (not case sensitive):

true, yes, on, 1

Strings that represent `False` are:

false, no, off, 0

**as_int**

``as_int(key)`

This returns the value contained in the specified key as an integer.

It raises a `ValueError` if the conversion can't be done.

**as_float**

``as_float(key)`

This returns the value contained in the specified key as a float.
It raises a ``ValueError`` if the conversion can't be done.

**as_list**

``as_list(key)`

This returns the value contained in the specified key as a list.

If it isn't a list it will be wrapped as a list so that you can guarantee the returned value will be a list.

**restore_default**

``restore_default(key)`

Restore (and return) the default value for the specified key.

This method will only work for a ConfigObj that was created with a configspec and has been validated.

If there is no default value for this key, ``KeyError`` is raised.

**restore_defaults**

``restore_defaults()``

Recursively restore default values to all members that have them.

This method will only work for a ConfigObj that was created with a configspec and has been validated.

It doesn't delete or modify entries without default values.

Walking a Section

.. note::

   The walk method allows you to call a function on every member/name.

.. code-block:: python

   walk(function, raise_errors=True,
``walk`` is a method of the ``Section`` object. This means it is also a method of ConfigObj.

It walks through every member and calls a function on the keyword and value. It walks recursively through subsections.

It returns a dictionary of all the computed values.

If the function raises an exception, the default is to propagate the error, and stop. If ``raise_errors=False`` then it sets the return value for that keyword to ``False`` instead, and continues. This is similar to the way validation works.

Your function receives the arguments ``(section, key)``. The current value is then ``section[key]``. Any unrecognised keyword arguments you pass to walk, are passed on to the function.

Normally ``walk`` just recurses into subsections. If you are transforming (or checking) names as well as values, then you want to be able to change the names of sections. In this case set ``call_on_sections`` to ``True``. Now, on encountering a sub-section, *first* the function is called for the *whole* sub-section, and *then* it recurses into it's members. This means your function must be able to handle receiving dictionaries as well as strings and lists.

If you are using the return value from ``walk`` and ``call_on_sections``, note that walk discards the return value when it calls your function.

.. caution::

You can use ``walk`` to transform the names of members of a section but you mustn't add or delete members.

Examples
-------

You can use this for transforming all values in your ConfigObj. For example you might like the nested lists from ConfigObj 3. This was provided by the listquote module. You could switch off the parsing for list values (``list_values=False``) and use listquote to parse every value.

Another thing you might want to do is use the Python escape codes in your values. You might be *used* to using ``\n`` for line feed and ``\t`` for tab. Obviously we'd need to decode strings that come from the config file (using the escape codes). Before writing out we'll need to put the escape codes back in.
As an example we'll write a function to use with walk, that encodes or decodes values using the `string-escape` codec.

The function has to take each value and set the new value. As a bonus we'll create one function that will do decode *or* encode depending on a keyword argument.

We don't want to work with section names, we're only transforming values, so we can leave `call_on_sections` as `False`. This means the two datatypes we have to handle are strings and lists, we can ignore everything else. (We'll treat tuples as lists as well).

We're not using the return values, so it doesn't need to return anything, just change the values if appropriate.

```python
.. code-block:: python

def string_escape(section, key, encode=False):
    
    A function to encode or decode using the 'string-escape' codec.
    To be passed to the walk method of a ConfigObj.
    By default it decodes.
    To encode, pass in the keyword argument `encode=True`.
    
    val = section[key]
    # is it a type we can work with
    # NOTE: for platforms where Python > 2.2
    # you can use basestring instead of (str, unicode)
    if not isinstance(val, (str, unicode, list, tuple)):
        # no !
        return
    elif isinstance(val, (str, unicode)):
        # it's a string !
        if not encode:
            section[key] = val.decode('string-escape')
        else:
            section[key] = val.encode('string-escape')
    else:
        # it must be a list or tuple!
        # we'll be lazy and create a new list
        newval = []
        # we'll check every member of the list
        for entry in val:
            if isinstance(entry, (str, unicode)):
                if not encode:
                    # encoding
                    newval.append(entry.encode('string-escape'))
                else:
                    # decoding
                    newval.append(entry.decode('string-escape'))
        section[key] = newval
```
newval.append(entry.decode('string-escape'))
else:
    newval.append(entry.encode('string-escape'))
else:
    newval.append(entry)

# done !
section[key] = newval

# assume we have a ConfigObj called `config`
#
# To decode
config.walk(string_escape)
#
# To encode.
# Because `walk` doesn't recognise the `encode` argument
# it passes it to our function.
config.walk(string_escape, encode=True)

Here's a simple example of using `walk` to transform names and values. One
usecase of this would be to create a *standard* config file with placeholders
for section and keynames. You can then use walk to create new config files
and change values and member names :

.. code-block:: python

    # We use 'XXXX' as a placeholder
    config = ''
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
    [XXXXsection1]
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
    [XXXXsection2]
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
    [[[XXXXsection1]]]
    XXXXkey1 = XXXXvalue1
    XXXXkey2 = XXXXvalue2
    XXXXkey3 = XXXXvalue3
    ''.splitlines()
    cfg = ConfigObj(config)
    #
def transform(section, key):
    val = section[key]
newkey = key.replace('XXXX', 'CLIENT1')
section.rename(key, newkey)
if isinstance(val, (tuple, list, dict)):
    pass
else:
    val = val.replace('XXXX', 'CLIENT1')
section[newkey] = val

#
cfg.walk(transform, call_on_sections=True)
print cfg
ConfigObj({'CLIENT1key1': 'CLIENT1value1', 'CLIENT1key2': 'CLIENT1value2',
    'CLIENT1key3': 'CLIENT1value3',
    'CLIENT1section1': {'CLIENT1key1': 'CLIENT1value1',
        'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3'},
    'CLIENT1section2': {'CLIENT1key1': 'CLIENT1value1',
        'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3',
        'CLIENT1section1': {'CLIENT1key1': 'CLIENT1value1',
            'CLIENT1key2': 'CLIENT1value2', 'CLIENT1key3': 'CLIENT1value3'}}})

Exceptions
==========

There are several places where ConfigObj may raise exceptions (other than because of bugs).

1) If a configspec filename you pass in doesn't exist, or a config file
   filename doesn't exist *and* `file_error=True`, an `IOError` will be
   raised.

2) If you try to set a non-string key, or a non string value when
   `stringify=False`, a `TypeError` will be raised.

3) A badly built config file will cause parsing errors.

4) A parsing error can also occur when reading a configspec.

5) In string interpolation you can specify a value that doesn't exist, or
   create circular references (recursion).

   Number 5 (which is actually two different types of exceptions) is documented
   in `String Interpolation`_.

   *This* section is about errors raised during parsing.

   The base error class is `ConfigObjError`. This is a subclass of
   `SyntaxError`, so you can trap for `SyntaxError` without needing to
directly import any of the ConfigObj exceptions.
The following other exceptions are defined (all deriving from `ConfigObjError`):

* `NestingError`

  This error indicates either a mismatch in the brackets in a section marker, or an excessive level of nesting.

* `ParseError`

  This error indicates that a line is badly written. It is neither a valid `key = value` line, nor a valid section marker line, nor a comment line.

* `DuplicateError`

  The keyword or section specified already exists.

* `ConfigspecError`

  An error occurred whilst parsing a configspec.

* `UnreprError`

  An error occurred when parsing a value in `unrepr mode`.

* `ReloadError`

  `reload` was called on a ConfigObj instance that doesn't have a valid filename attribute.

When parsing a configspec, ConfigObj will stop on the first error it encounters. It will raise a `ConfigspecError`. This will have an `error` attribute, which is the actual error that was raised.

Behaviour when parsing a config file depends on the option `raise_errors`. If ConfigObj encounters an error while parsing a config file:

If `raise_errors=True` then ConfigObj will raise the appropriate error and parsing will stop.

If `raise_errors=False` (the default) then parsing will continue to the end and *all* errors will be collected.

If `raise_errors` is False and multiple errors are found a `ConfigObjError` is raised. The error raised has a `config` attribute, which is the parts of the ConfigObj that parsed successfully. It also has an attribute `errors`, which is a list of *all* the errors raised. Each entry in the list is an
instance of the appropriate error type. Each one has the following attributes (useful for delivering a sensible error message to your user):

* ``line``: the original line that caused the error.
* ``line_number``: its number in the config file.
* ``message``: the error message that accompanied the error.

If only one error is found, then that error is re-raised. The error still has the ``config`` and ``errors`` attributes. This means that your error handling code can be the same whether one error is raised in parsing, or several.

It also means that in the most common case (a single error) a useful error message will be raised.

.. note::

One wrongly written line could break the basic structure of your config file. This could cause every line after it to flag an error, so having a list of all the lines that caused errors may not be as useful as it sounds.

Validation
==========

.. hint::

The system of configspecs can seem confusing at first, but is actually quite simple and powerful. The best reference is my article on ConfigObj:

* `An Introduction to ConfigObj`_

Validation is done through a combination of the configspec and a Validator object. For this you need *validate.py* [#]. See downloading if you don't have a copy.

Validation can perform two different operations:

1) Check that a value meets a specification. For example, check that a value is an integer between one and six, or is a choice from a specific set of options.

2) It can convert the value into the type required. For example, if one of your values is a port number, validation will turn it into an integer for you.
So validation can act as a transparent layer between the datatypes of your application configuration (boolean, integers, floats, etc) and the text format of your config file.

```
configspec
---------
```

The `validate` method checks members against an entry in the configspec. Your configspec therefore resembles your config file, with a check for every member.

In order to perform validation you need a `Validator` object. This has several useful built-in check functions. You can also create your own custom functions and register them with your Validator object.

Each check is the name of one of these functions, including any parameters and keyword arguments. The configspecs look like function calls, and they map to function calls.

The basic datatypes that an un-extended Validator can test for are:

- boolean values (True and False)
- integers (including minimum and maximum values)
- floats (including min and max)
- strings (including min and max length)
- IP addresses (v4 only)

It can also handle lists of these types and restrict a value to being one from a set of options.

An example configspec is going to look something like:

```
port = integer(0, 100)
user = string(max=25)
mode = option('quiet', 'loud', 'silent')
```

You can specify default values, and also have the same configspec applied to several sections. This is called `repeated sections`.

For full details on writing configspecs, please refer to the `validate.py documentation`.

.. important::

Your configspec is read by ConfigObj in the same way as a config file.

That means you can do interpolation *within* your configspec.
In order to allow this, checks in the 'DEFAULT' section (of the root level of your configspec) are *not* used.

If you want to use a configspec *without* interpolation being done in it you can create your configspec manually and switch off interpolation:

.. code-block:: python

    from configobj import ConfigObj

    configs = ConfigObj(spec_filename, interpolation=False, list_values=False,
                        _inspec=True)
    conf = ConfigObj(config_filename, configspec=configspec)

If you need to specify the encoding of your configspec, then you can pass in a ConfigObj instance as your configspec. When you read your configspec file, you *must* specify `'list_values=False'`. If you need to support hashes in configspec values then you must also pass in `'_inspec=True'`.

.. code-block:: python

    from configobj import ConfigObj
    configs = ConfigObj(configspecfilename, encoding='UTF8',
                        list_values=False, _inspec=True)
    conf = ConfigObj(filename, configspec=configspec)

.. _validate.py documentation: http://www.voidspace.org.uk/python/validate.html

Type Conversion

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

By default, validation does type conversion. This means that if you specify `'integer'` as the check, then calling validate_ will actually change the value to an integer (so long as the check succeeds).

It also means that when you call the write_ method, the value will be converted back into a string using the `str` function.

To switch this off, and leave values as strings after validation, you need to set the stringify_ attribute to `False`. If this is the case, attempting to set a value to a non-string will raise an error.

Default Values

-----------

You can set a default value in your check. If the value is missing from the
config file then this value will be used instead. This means that your user only has to supply values that differ from the defaults.

If you *don't* supply a default then for a value to be missing is an error, and this will show in the `return value` from validate.

Additionally you can set the default to be ``None``. This means the value will be set to ``None`` (the object) *whichever check is used*. (It will be set to ``''`` rather than ``None`` if `stringify_` is ``False``). You can use this to easily implement optional values in your config files. ::

```python
port = integer(0, 100, default=80)
user = string(max=25, default=0)
mode = option('quiet', 'loud', 'silent', default='loud')
nick = string(default=None)
```

.. note::

Because the default goes through type conversion, it also has to pass the check.

Note that ``default=None`` is case sensitive.

List Values
~~~~~~~~~~~

It's possible that you will want to specify a list as a default value. To avoid confusing syntax with commas and quotes you use a list constructor to specify that keyword arguments are lists. This includes the `default` value. This makes checks look something like::

```python
checkname(default=list('val1', 'val2', 'val3'))
```

This works with all keyword arguments, but is most useful for default values.

Repeated Sections
-----------------

Repeated sections are a way of specifying a configspec for a section that should be applied to all unspecified subsections in the same section.

The easiest way of explaining this is to give an example. Suppose you have a config file that describes a dog. That dog has various attributes, but it can also have many fleas. You don't know in advance how many fleas there will be, or what they will be called, but you want each flea validated against the same configspec.
We can define a section called *fleas*. We want every flea in that section (every sub-section) to have the same configspec applied to it. We do this by defining a single section called ``__many__``. ::

```python
dog
  name = string(default=Rover)
  age = float(0, 99, default=0)

[fleas]
  [__many__]
    bloodsucker = boolean(default=True)
    children = integer(default=10000)
    size = option(small, tiny, micro, default=tiny)
```

Every flea on our dog will now be validated using the ``__many__`` configspec.

``__many__`` sections can have sub-sections, including their own ``__many__`` sub-sections. Defaults work in the normal way in repeated sections.

Repeated Values
---------------

As well as using ``__many__`` to validate unspecified sections you can use it to validate values. For example, to specify that all values in a section should be integers::

```python
[section]
  __many__ = integer
```

If you want to use repeated values alongside repeated sections you can call one ``__many__`` and the other ``___many___`` (with three underscores).

Copy Mode
---------

Because you can specify default values in your configspec, you can use ConfigObj to write out default config files for your application.

However, normally values supplied from a default in a configspec are *not* written out by the ``write`` method.

To do this, you need to specify ``copy=True`` when you call validate. As well as not marking values as default, all the comments in the configspec file will be copied into your ConfigObj instance.
.. code-block:: python

    from configobj import ConfigObj
    from validate import Validator
    vdt = Validator()
    config = ConfigObj(configspec='default.ini')
    config.filename = 'new_default.ini'
    config.validate(vdt, copy=True)
    config.write()

If you need to support hashes in the configspec values then you must create
it with ``_inspec=True``. This has the side effect of switching off the parsing
of inline comments, meaning that they won't be copied into the new config file.
(ConfigObj syntax is slightly different from configspec syntax and the parser
can't support both inline comments and hashes in configspec values.)

Validation and Interpolation
-----------------------------

String interpolation and validation don't play well together. When validation
changes type it sets the value. If the value uses interpolation, then the
interpolation reference would normally be overwritten. Calling ``write`` would
then use the absolute value and the interpolation reference would be lost.

As a compromise - if the value is unchanged by validation then it is not reset.
This means strings that pass through validation unmodified will not be
overwritten. If validation changes type - the value has to be overwritten, and
any interpolation references are lost.

Extra Values
----------

After validation the ``extra_values`` member of every section that is listed in
the configspec will be populated with the names of members that are in the
config file but not in the configspec.

If you are reporting configuration errors to your user this information can be
useful, for example some missing entries may be due to misspelt entries that
appear as extra values.

See the get_extra_values_ function

New in ConfigObj 4.7.0.
You may not need a full validation process, but still want to check if all the expected values are present.

Provided as part of the ConfigObj module is the `SimpleVal` object. This has a dummy `test` method that always passes.

The only reason a test will fail is if the value is missing. The return value from `validate` will either be `True`, meaning all present, or a dictionary with `False` for all missing values/sections.

To use it, you still need to pass in a valid configspec when you create the ConfigObj, but just set all the values to `''`. Then create an instance of `SimpleVal` and pass it to the `validate` method.

As a trivial example if you had the following config file:

```
# config file for an application
port = 80
protocol = http
domain = voidspace
top_level_domain = org.uk
```

You would write the following configspec:

```
port = ''
protocol = ''
domain = ''
top_level_domain = ''
```

```python
config = ConfigObj(filename, configspec=configspec)
val = SimpleVal()
test = config.validate(val)
if test == True:
    print 'All values present.'
elif test == False:
    print 'No values present!' 
else:
    for entry in test:
        if test[entry] == False:
            print '"%s" missing.' % entry
```
Empty values
============

Many config files from other applications allow empty values. As of version 4.3.0, ConfigObj will read these as an empty string.

A new option/attribute has been added (``write_empty_values``) to allow ConfigObj to write empty strings as empty values.

.. code-block:: python

    from configobj import ConfigObj
    cfg = ""
    key =
    key2 = # a comment
    ".splitlines()
    config = ConfigObj(cfg)
    print config
    ConfigObj({'key': '', 'key2': ''})

    config.write_empty_values = True
    for line in config.write():
        print line

    key =
    key2 =   # a comment

unrepr mode
============

The ``unrepr`` option allows you to store and retrieve the basic Python data-types using config files. It has to use a slightly different syntax to normal ConfigObj files. Unsurprisingly it uses Python syntax.

This means that lists are different (they are surrounded by square brackets), and strings *must* be quoted.

The types that ``unrepr`` can work with are:

| strings, lists tuples
| None, True, False
| dictionaries, integers, floats
| longs and complex numbers

You can't store classes, types or instances.
``unrepr`` uses ``repr(object)`` to write out values, so it currently doesn't check that you are writing valid objects. If you attempt to read an unsupported value, ConfigObj will raise a `configobj.UnknownType` exception.

Values that are triple quoted cased. The triple quotes are removed before converting. This means that you can use triple quotes to write dictionaries over several lines in your config files. They won't be written like this though.

If you are writing config files by hand, for use with `unrepr`, you should be aware of the following differences from normal ConfigObj syntax:

| List : ``['A List', 'With', 'Strings']`` |
| Strings : ``"Must be quoted."`` |
| Backslash : ``"The backslash must be escaped \"``

These all follow normal Python syntax.

In unrepr mode *inline comments* are not saved. This is because lines are parsed using the `compiler package <http://docs.python.org/lib/compiler.html>`_, which discards comments.

String Interpolation
====================

.. note::

String interpolation can slow down (slightly) the fetching of values from your config object. If you aren't using interpolation and it is performance critical then create your instance with `interpolation=False`.

ConfigObj allows string interpolation *similar* to the way `ConfigParser` or `string.Template` work. The value of the `interpolation` attribute determines which style of interpolation you want to use. Valid values are "ConfigParser" or "Template" (case-insensitive, so "configparser" and "template" will also work). For backwards compatibility reasons, the value "True" is also a valid value for the "interpolation" attribute, and will select "ConfigParser"-style interpolation. At some undetermined point in the future, that default may change to "Template"-style interpolation.

For `ConfigParser`-style interpolation, you specify a value to be substituted by including `%(name)s` in the value.

For `Template`-style interpolation, you specify a value to be substituted by including `$(cl)name$(cr)` in the value. Alternately, if 'name' is a valid Python identifier (i.e., is composed of nothing but alphanumeric characters,
plus the underscore character), then the braces are optional and the value can be written as ``$name``.

Note that ``ConfigParser``-style interpolation and ``Template``-style interpolation are mutually exclusive; you cannot have a configuration file that's a mix of one or the other. Pick one and stick to it. ``Template``-style interpolation is simpler to read and write by hand, and is recommended if you don't have a particular reason to use ``ConfigParser``-style.

Interpolation checks first the current section to see if ``name`` is the key to a value. ('name' is case sensitive).

If it doesn't find it, next it checks the 'DEFAULT' sub-section of the current section.

If it still doesn't find it, it moves on to check the parent section and the parent section's 'DEFAULT' subsection, and so on all the way up to the main section.

If the value specified isn't found in any of these locations, then a `MissingInterpolationOption` error is raised (a subclass of `ConfigObjError`).

If it is found then the returned value is also checked for substitutions. This allows you to make up compound values (for example directory paths) that use more than one default value. It also means it's possible to create circular references. If there are any circular references which would cause an infinite interpolation loop, an `InterpolationLoopError` is raised.

Both of these errors are subclasses of `InterpolationError`, which is a subclass of `ConfigObjError`.

String interpolation and validation don't play well together. This is because validation overwrites values - and so may erase the interpolation references. See `Validation and Interpolation`_. (This can only happen if validation has to *change* the value).

New in ConfigObj 4.7.0: String interpolation is now done in members of list values.

**String Interpolation and List Values**

Since version 4.7 string interpolation is done on string members of list values. If interpolation changes any members of the list then what you get back is a *copy* of the list rather than the original list.
This makes fetching list values slightly slower when interpolation is on, it also means that if you mutate the list changes won't be reflected in the original list:

```
.. code-block:: python

>>> c = ConfigObj()
>>> c['foo'] = 'boo'
>>> c['bar'] = ['%(foo)s']
>>> c['bar'][
    'boo']
>>> c['bar'].append('fish')
>>> c['bar'][
    'boo']
```

Instead of mutating the list you must create a new list and reassign it.

Comments
========

Any line that starts with a `#`, possibly preceded by whitespace, is a comment.

If a config file starts with comments then these are preserved as the `initial_comment_`.

If a config file ends with comments then these are preserved as the `final_comment_`.

Every key or section marker may have lines of comments immediately above it. These are saved as the `comments` attribute of the section. Each member is a list of lines.

You can also have a comment inline with a value. These are saved as the `inline_comments` attribute of the section, with one entry per member of the section.

Subsections (section markers in the config file) can also have comments.

See `Section Attributes` for more on these attributes.

These comments are all written back out by the `write` method.

`flatten_errors`

```
.. code-block:: python
```
flatten_errors(cfg, res)

Validation_ is a powerful way of checking that the values supplied by the user make sense.

The validate_ method returns a results dictionary that represents pass or fail for each value. This doesn't give you any information about *why* the check failed.

``flatten_errors`` is an example function that turns a results dictionary into a flat list, that only contains values that *failed*.

``cfg`` is the ConfigObj instance being checked, ``res`` is the results dictionary returned by ``validate``.

It returns a list of keys that failed. Each member of the list is a tuple:

```
([list of sections...], key, result)
```

If ``validate`` was called with ``preserve_errors=False`` (the default) then ``result`` will always be ``False``.

*list of sections* is a flattened list of sections that the key was found in.

If the section was missing then key will be ``None``.

If the value (or section) was missing then ``result`` will be ``False``.

If ``validate`` was called with ``preserve_errors=True`` and a value was present, but failed the check, then ``result`` will be the exception object returned. You can use this as a string that describes the failure.

For example:

*The value "3" is of the wrong type*.

Example Usage
-------------

The output from ``flatten_errors`` is a list of tuples.

Here is an example of how you could present this information to the user.

.. code-block:: python
vtor = validate.Validator()
# ini is your config file - cs is the configspec
cfg = ConfigObj(ini, configspec=cs)
res = cfg.validate(vtor, preserve_errors=True)
for entry in flatten_errors(cfg, res):
    # each entry is a tuple
    section_list, key, error = entry
    if key is not None:
        section_list.append(key)
    else:
        section_list.append('[missing section]')
    section_string = ', '.join(section_list)
    if error == False:
        error = 'Missing value or section.'
    print section_string, ' = ', error

get_extra_values
================

.. code-block:: python

    get_extra_values(conf)

New in ConfigObj 4.7.0.

Find all the values and sections not in the configspec from a validated
ConfigObj.

``get_extra_values`` returns a list of tuples where each tuple represents
either an extra section, or an extra value.

The tuples contain two values, a tuple representing the section the value
is in and the name of the extra values. For extra values in the top level
section the first member will be an empty tuple. For values in the 'foo'
section the first member will be ``(('foo',)``. For members in the 'bar'
subsection of the 'foo' section the first member will be ``(('foo', 'bar'))``.

Extra sections will only have one entry. Values and subsections inside
an extra section aren't listed separately.

NOTE: If you call ``get_extra_values`` on a ConfigObj instance that hasn't
been validated it will return an empty list.

Example Usage
The output from `get_extra_values` is a list of tuples.

Here is an example of how you could present this information to the user.

```python
vtor = validate.Validator()
# ini is your config file - cs is the configspec
cfg = ConfigObj(ini, configspec=cs)
cfg.validate(vtor, preserve_errors=True)

for sections, name in get_extra_values(cfg):
    # this code gets the extra values themselves
    the_section = cfg
    for section in sections:
        the_section = cfg[section]

    # the_value may be a section or a value
    the_value = the_section[name]

    section_or_value = 'value
    if isinstance(the_value, dict):
        # Sections are subclasses of dict
        section_or_value = 'section'

    section_string = ', '.join(sections) or "top level"
    print 'Extra entry in section: %s. Entry %r is a %s' % (section_string, name, section_or_value)
```

CREDITS
-------

ConfigObj 4 is written by (and copyright) `Michael Foord`_ and `Nicola Larosa`_.

Particularly thanks to Nicola Larosa for help on the config file spec, the validation system and the doctests.

*validate.py* was originally written by Michael Foord and Mark Andrews.

Thanks to many others for input, patches and bugfixes.
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=======

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TODO
====
Better support for configuration from multiple files, including tracking where the original file came from and writing changes to the correct file.

Make `newline` a keyword argument (as well as an attribute) ?

`UTF16` encoded files, when returned as a list of lines, will have the BOM at the start of every line. Should this be removed from all but the first line ?

Option to set warning type for unicode decode ? (Defaults to strict).

A method to optionally remove uniform indentation from multiline values. (do as an example of using `walk` - along with string-escape)

Should the results dictionary from validate be an ordered dictionary if `odict <http://www.voidspace.org.uk/python/odict.html>`_ is available ?

Implement some of the sequence methods (which include slicing) from the newer `odict` ?

Preserve line numbers of values (and possibly the original text of each value).

**ISSUES**

.. note::

Please file any bug reports to `Michael Foord` or the `ConfigObj` `Mailing List`.

There is currently no way to specify the encoding of a configspec file.

As a consequence of the changes to configspec handling in version 4.6.0, when you create a ConfigObj instance and provide a configspec, the configspec attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the configspec attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in configspecs I had to turn off the parsing of inline comments in configspecs. This will only affect you if you are using `copy=True` when validating and expecting inline comments to be copied from the configspec into the ConfigObj instance (all other comments will be copied as usual).

If you *create* the configspec by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines) then you should pass in `__inspec=True` to the constructor to allow hashes in values. This is the magic that switches off inline comment parsing.
When using `copy` mode for validation, it won't copy `DEFAULT` sections. This is so that you *can* use interpolation in configspec files. This is probably true even if interpolation is off in the configspec.

You can't have a keyword with the same name as a section (in the same section). They are both dictionary keys - so they would overlap.

ConfigObj doesn't quote and unquote values if `list_values=False`. This means that leading or trailing whitespace in values will be lost when writing. (Unless you manually quote).

Interpolation checks first the current section, then the 'DEFAULT' subsection of the current section, before moving on to the current section's parent and so on up the tree.

Does it matter that we don't support the `:` divider, which is supported by `ConfigParser`?

String interpolation and validation don't play well together. When validation changes type it sets the value. This will correctly fetch the value using interpolation - but then overwrite the interpolation reference. If the value is unchanged by validation (it's a string) - but other types will be.

CHANGELOG
==========

This is an abbreviated changelog showing the major releases up to version 4. From version 4 it lists all releases and changes.

2010/02/27 - Version 4.7.2
--------------------------

* BUGFIX: Restore Python 2.3 compatibility
* BUGFIX: Members that were lists were being returned as copies due to interpolation introduced in 4.7. Lists are now only copies if interpolation changes a list member.
* BUGFIX: `pop` now does interpolation in list values as well.
* BUGFIX: where interpolation matches a section name rather than a value it is ignored instead of raising an exception on fetching the item.
* BUGFIX: values that use interpolation to reference members that don't exist can now be repr'd.
* BUGFIX: Fix to avoid writing `\r\r\n` on Windows when given a file opened in text write mode (`w`).
See `String Interpolation and List Values`_ for information about the problem with lists and interpolation.

2010/02/06 - Version 4.7.1
------------------------------

* Fix bug in options deprecation warning added in 4.7.0

2010/01/09 - Version 4.7.0
------------------------------

* Minimum supported version of Python is now 2.3
* ~25% performance improvement thanks to Christian Heimes
* String interpolation now works in list value members
* After validation any additional entries not in the configspec are listed in the `extra_values` section member
* Addition of the `get_extra_values` function for finding all extra values in a validated ConfigObj instance
* Deprecated the use of the `options` dictionary in the ConfigObj constructor and added explicit keyword arguments instead. Use `\.\^options` if you want to initialise a ConfigObj instance from a dictionary
* Constructing a ConfigObj from an existing ConfigObj instance now preserves the order of values and sections from the original instance in the new one
* BUGFIX: Checks that failed validation would not populate `default_values` and `restore_default_value()` wouldn't work for those entries
* BUGFIX: `clear` now clears `defaults`
* BUGFIX: empty values in list values were accidentally valid syntax. They now raise a `ParseError`. e.g. "value = 1, , 2"  
* BUGFIX: Change to the result of a call to `validate` when `preserve_errors` is True. Previously sections where *all* values failed validation would return False for the section rather than preserving the errors. False will now only be returned for a section if it is missing
* Distribution includes version 1.0.1 of validate.py
* Removed `__revision__` and `__docformat__`

2009/04/13 - Version 4.6.0
------------------------------

* Pickling of ConfigObj instances now supported (thanks to Christian Heimes)
* Hashes in configspects are now allowed (see note below)
* Replaced use of hasattr (which can swallow exceptions) with getattr
* `__many__` in configspects can refer to scalars (ordinary values) as well as sections
* You can use `__many__` (three underscores!) where you want to use `__many__` as well
* You can now have normal sections inside configspec sections that use `__many__`
* You can now create an empty ConfigObj with a configspec, programmatically set values and then validate
* A section that was supplied as a value (or vice-versa) in the actual config file would cause an exception during validation (the config file is still broken of course, but it is now handled gracefully)
* Added `as_list` method
* Removed the deprecated `istrue`, `encode` and `decode` methods
* Running test_configobj.py now also runs the doctests in the configobj module

As a consequence of the changes to configspec handling, when you create a ConfigObj instance and provide a configspec, the configspec attribute is only set on the ConfigObj instance - it isn't set on the sections until you validate. You also can't set the configspec attribute to be a dictionary. This wasn't documented but did work previously.

In order to fix the problem with hashes in configspecs I had to turn off the parsing of inline comments in configspecs. This will only affect you if you are using `copy=True` when validating and expecting inline comments to be copied from the configspec into the ConfigObj instance (all other comments will be copied as usual).

If you *create* the configspec by passing in a ConfigObj instance (usual way is to pass in a filename or list of lines) then you should pass in `_inspec=True` to the constructor to allow hashes in values. This is the magic that switches off inline comment parsing.

2008/06/27 - Version 4.5.3
--------------------------
BUGFIX: fixed a problem with `copy=True` when validating with configspecs that use `__many__` sections.

2008/02/05 - Version 4.5.2
--------------------------
Distribution updated to include version 0.3.2 of validate_. This means that `None` as a default value in configspecs works.

2008/02/05 - Version 4.5.1
--------------------------
Distribution updated to include version 0.3.1 of validate_. This means that Unicode configspecs now work.

2008/02/05 - Version 4.5.0
--------------------------
ConfigObj will now guarantee that files will be written terminated with a newline.
ConfigObj will no longer attempt to import the `validate` module, until/unless you call `ConfigObj.validate` with `preserve_errors=True`. This makes it faster to import.

New methods `restore_default` and `restore_defaults`. `restore_default` resets an entry to its default value (and returns that value). `restore_defaults` resets all entries to their default value. It doesn't modify entries without a default value. You must have validated a ConfigObj (which populates the `default_values` dictionary) before calling these methods.

BUGFIX: Proper quoting of keys, values and list values that contain hashes (when writing). When `list_values=False`, values containing hashes are triple quoted.

Added the `reload` method. This reloads a ConfigObj from file. If the filename attribute is not set then a `ReloadError` (a new exception inheriting from `IOError`) is raised.

BUGFIX: Files are read in with 'rb' mode, so that native/non-native line endings work!

Minor efficiency improvement in `unrepr` mode.

Added missing docstrings for some overridden dictionary methods.

Added the `reset` method. This restores a ConfigObj to a freshly created state.

Removed old CHANGEOLOG file.

---

2007/02/04 - Version 4.4.0
--------------------------
Official release of 4.4.0

2006/12/17 - Version 4.3.3-alpha4
---------------------------------
By Nicola Larosa

Allowed arbitrary indentation in the `indent_type` parameter, removed the `NUM_INDENT_SPACES` and `MAX_INTERPOL_DEPTH` (a leftover) constants, added indentation tests (including another docutils workaround, sigh), updated the documentation.

By Michael Foord

Made the import of `compiler` conditional so that `ConfigObj` can be used

2006/12/17 - Version 4.3.3-alpha3
---------------------------------

By Nicola Larosa

Added a missing `\self.` in the _handle_comment method and a related test, per Sourceforge bug #1523975.

2006/12/09 - Version 4.3.3-alpha2
---------------------------------

By Nicola Larosa

Changed interpolation search strategy, based on this patch by Robin Munn: http://sourceforge.net/mailarchive/message.php?msg_id=17125993

2006/12/09 - Version 4.3.3-alpha1
---------------------------------

By Nicola Larosa

Added Template-style interpolation, with tests, based on this patch by Robin Munn: http://sourceforge.net/mailarchive/message.php?msg_id=17125991 (awful archives, bad Sourceforge, bad).

2006/06/04 - Version 4.3.2
--------------------------

By Nicola Larosa

Changed error handling, if parsing finds a single error then that error will be re-raised. That error will still have an `\errors` and a `\config` attribute.

Fixed bug where `\n` terminated files could be truncated.

Bugfix in `\unrepr` mode, it couldn't handle `#` in values. (Thanks to Philippe Normand for the report.)

As a consequence of this fix, ConfigObj doesn't now keep inline comments in `\unrepr` mode. This is because the parser in the `compiler package` doesn't keep comments.

Error messages are now more useful. They tell you the number of parsing errors
and the line number of the first error. (In the case of multiple errors.)

Line numbers in exceptions now start at 1, not 0.

Errors in `unrepr` mode are now handled the same way as in the normal mode. The errors stored will be an `UnreprError`.

2006/04/29 - Version 4.3.1
--------------------------

Added `validate.py` back into `configobj.zip`. (Thanks to Stewart Midwinter)

Updated to `validate.py` 0.2.2.

Preserve tuples when calling the `dict` method. (Thanks to Gustavo Niemeyer.)

Changed `__repr__` to return a string that contains `ConfigObj({ ... })`.

Change so that an options dictionary isn't modified by passing it to ConfigObj. (Thanks to Artarious.)

Added ability to handle negative integers in `unrepr`. (Thanks to Kevin Dangoor.)

2006/03/24 - Version 4.3.0
--------------------------

Moved the tests and the CHANGELOG (etc) into a separate file. This has reduced the size of `configobj.py` by about 40%.

Added the `unrepr` mode to reading and writing config files. Thanks to Kevin Dangoor for this suggestion.

Empty values are now valid syntax. They are read as an empty string `''`. (`key = '', or `key = # comment``)

`validate` now honours the order of the configspec.

Added the `copy` mode to validate. Thanks to Louis Cordier for this suggestion.

Fixed bug where files written on windows could be given `\r\n` line terminators.

Fixed bug where last occurring comment line could be interpreted as the
final comment if the last line isn't terminated.

Fixed bug where nested list values would be flattened when `write` is called. Now sub-lists have a string representation written instead.

Deprecated `encode` and `decode` methods instead.

You can now pass in a ConfigObj instance as a configspec (remember to read the configspec file using `list_values=False`).

Sorted footnotes in the docs.

2006/02/16 - Version 4.2.0

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

Removed `''BOM_UTF8''` from `''__all__''`.

The `''BOM''` attribute has become a boolean. (Defaults to `''False''`.) It is *only* `''True''` for the `''UTF16/UTF8''` encodings.

File like objects no longer need a `''seek''` attribute.

Full unicode support added. New options/attributes `''encoding''`, `''default_encoding''`.

ConfigObj no longer keeps a reference to file like objects. Instead the `''write''` method takes a file like object as an optional argument. (Which will be used in preference of the `''filename''` attribute if that exists as well.)

utf16 files decoded to unicode.

If `''BOM''` is `''True''`, but no encoding specified, then the utf8 BOM is written out at the start of the file. (It will normally only be `''True''` if the utf8 BOM was found when the file was read.)

Thanks to Aaron Bentley for help and testing on the unicode issues.

File paths are *not* converted to absolute paths, relative paths will remain relative as the `''filename''` attribute.

Fixed bug where `''final_comment''` wasn't returned if `''write''` is returning a list of lines.

Deprecated `''istrue''`, replaced it with `''as_bool''`.

Added `''as_int''` and `''as_float''`.
2005/12/14 - Version 4.1.0
--------------------------

Added ``merge``, a recursive update.

Added ``preserve_errors`` to ``validate`` and the ``flatten_errors`` example function.

Thanks to Matthew Brett for suggestions and helping me iron out bugs.

Fixed bug where a config file is *all* comment, the comment will now be "initial_comment" rather than "final_comment".

Validation no longer done on the 'DEFAULT' section (only in the root level). This allows interpolation in configspecs.

Also use the new list syntax in validate_0.2.1. (For configspecs).

2005/12/02 - Version 4.0.2
--------------------------

Fixed bug in ``create_empty``. Thanks to Paul Jimenez for the report.

2005/11/05 - Version 4.0.1
--------------------------

Fixed bug in ``Section.walk`` when transforming names as well as values.

Added the ``istru`` method. (Fetches the boolean equivalent of a string value).

Fixed ``list_values=False`` - they are now only quoted/unquoted if they are multiline values.

List values are written as ``item, item`` rather than ``item,item``.

2005/10/17 - Version 4.0.0
--------------------------

**ConfigObj 4.0.0 Final**

Fixed bug in ``setdefault``. When creating a new section with setdefault the reference returned would be to the dictionary passed in *not* to the new
section. Bug fixed and behaviour documented.

Obscure typo/bug fixed in ``write``. Wouldn't have affected anyone though.

2005/09/09 - Version 4.0.0 beta 5
-----------------------------
Removed ``PositionError``.

Allowed quotes around keys as documented.

Fixed bug with commas in comments. (matched as a list value)

2005/09/07 - Version 4.0.0 beta 4
-----------------------------
Fixed bug in ``__delitem__``. Deleting an item no longer deletes the``inline_comments`` attribute.

Fixed bug in initialising ConfigObj from a ConfigObj.

Changed the mailing list address.

2005/08/28 - Version 4.0.0 beta 3
-----------------------------
Interpolation is switched off before writing out files.

Fixed bug in handling ``StringIO`` instances. (Thanks to report from Gustavo Niemeyer.)

Moved the doctests from the ``__init__`` method to a separate function.
(For the sake of IDE calltips).

2005/08/25 - Version 4.0.0 beta 2
-----------------------------
Amendments to *validate.py*.

First public release.

2005/08/21 - Version 4.0.0 beta 1
-----------------------------
Reads nested subsections to any depth.

Multiline values.

Simplified options and methods.

New list syntax.

Faster, smaller, and better parser.

Validation greatly improved. Includes:

* type conversion
* default values
* repeated sections

Improved error handling.

Plus lots of other improvements.

2004/05/24 - Version 3.0.0

Several incompatible changes: another major overhaul and change. (Lots of improvements though).

Added support for standard config files with sections. This has an entirely new interface: each section is a dictionary of values.

Changed the update method to be called writein: update clashes with a dict method.

Made various attributes keyword arguments, added several.

Configspects and orderlists have changed a great deal.

Removed support for adding dictionaries: use update instead.

Now subclasses a new class called caselessDict. This should add various dictionary methods that could have caused errors before.

It also preserves the original casing of keywords when writing them back out.

Comments are also saved using a `caselessDict`.

Using a non-string key will now raise a `TypeError` rather than converting
the key.

Added an exceptions keyword for *much* better handling of errors.

Made `createempty=False` the default.

Now checks indict *and* any keyword args. Keyword args take precedence over indict.

``', '.', '=', ':', '' and '"' are now all valid dividers where the keyword is unquoted.

ConfigObj now does no type checking against configspec when you set items.

delete and add methods removed (they were unnecessary).

Docs rewritten to include all this gumph and more; actually ConfigObj is *really* easy to use.

Support for stdout was removed.

A few new methods added.

Charmap is now incorporated into ConfigObj.

2004/03/14 - Version 2.0.0 beta
-----------------------------

Re-written it to subclass dict. My first forays into inheritance and operator overloading.

The config object now behaves like a dictionary.

I've completely broken the interface, but I don't think anyone was really using it anyway.

This new version is much more 'classy'.

It will also read straight from/to a filename and completely parse a config file without you *having* to supply a config spec.

Uses listparse, so can handle nested list items as values.

No longer has getval and setval methods: use normal dictionary methods, or add and delete.
Version 1.0.5 has a couple of bugfixes as well as a couple of useful additions over previous versions.

Since 1.0.0 the buildconfig function has been moved into this distribution, and the methods reset, verify, getval and setval have been added.

A couple of bugs have been fixed.

Origins
-------

ConfigObj originated in a set of functions for reading config files in the `atlantibots <http://www.voidspace.org.uk/atlantibots/>`_ project. The original functions were written by Rob McNeur.

Footnotes
=========

.. [#] And if you discover any bugs, let us know. We'll fix them quickly.

.. [#] If you specify a filename that doesn't exist, ConfigObj will assume you are creating a new one. See the *create_empty* and *file_error* options.

.. [#] They can be byte strings (*ordinary* strings) or Unicode.

.. [#] Except we don't support the RFC822 style line continuations, nor `:` as a divider.

.. [#] This is a change in ConfigObj 4.2.0. Note that ConfigObj doesn't call the seek method of any file like object you pass in. You may want to call `file_object.seek(0)` yourself, first.

.. [#] A side effect of this is that it enables you to copy a ConfigObj:

.. code-block:: python

    # only copies members
    # not attributes/comments
    config2 = ConfigObj(config1)
Since ConfigObj 4.7.0 the order of members and sections will be preserved when copying a ConfigObj instance.

.. [#] Other than lists of strings.

.. [#] The exception is if it detects a ``UTF16`` encoded file which it must decode before parsing.

.. [#] The method signature shows that this method takes two arguments. The second is the section to be written. This is because the ``write`` method is called recursively.

.. [#] The dict method doesn't actually use the deepcopy mechanism. This means if you add nested lists (etc) to your ConfigObj, then the dictionary returned by dict may contain some references. For all *normal* ConfigObjs it will return a deepcopy.

.. [#] Passing ``(section, key)`` rather than ``(value, key)`` allows you to change the value by setting ``section[key] = newval``. It also gives you access to the *rename* method of the section.

.. [#] Minimum required version of *validate.py* 0.2.0.

.. _listquote: http://www.voidspace.org.uk/python/modules.shtml#listquote
.. _Nicola Larosa: http://www.teknico.net

Found in path(s):
* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N41O/configobj-4.7.2.zip-cosi-expand-archive-mfhSEs8B/configobj-4.7.2/docs/configobj.txt

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* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N4I0/configobj-4.7.2.zip-cosi-expand-archive-mfhSEs8B/configobj-4.7.2/tests/test_configobj.py

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* /opt/cola/permits/1176988944_1625002789.91/0/python-configobj-4.7.2-7.el7-1.src.rpm-cosi-expand-archive-1Fs1N4I0/configobj-4.7.2.zip-cosi-expand-archive-mfhSEs8B/configobj-4.7.2/tests/test_configobj.py

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
## Flags for position independent code
SHAREDLIBCFLAGS = -fpic
SHAREDLIBCXXFLAGS = -fpic
SHAREDLIBCPPFLAGS = -Dpic

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

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

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

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

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC.O = ao

## Compilation rules
%.$(STATIC.O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%..o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC.O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%..o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$G...$<\n| sed \"\s\(\*\)\,\o\[\:"A.o $@ : /g" > $@;\n| -s $@ ]\| rm -f $@
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$G...$<\n| sed \"\s\(\*\)\,\o\[\:"A.o $@ : /g" > $@;\n
[ -s $@ ] || rm -f $@

## Versioned libraries rules

%.SO.$(SO_TARGET_VERSION_MAJOR): %.SO.$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%
%.SO: %.SO.$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {+F}.$(SO).$(SO_TARGET_VERSION) $@

## End FreeBSD-specific setup

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major
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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Built-By: gil
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1.1395 nss-softokn 3.53.1-6.el7_9

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/spnego_mach.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
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lib/libgss/g_inquire_context.c
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- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
- lib/gssapi/mechglue/g_imp_sec_context.c
- lib/gssapi/mechglue/g_init_sec_context.c
- lib/gssapi/mechglue/g_initialize.c
- lib/gssapi/mechglue/g_inquire_context.c
- lib/gssapi/mechglue/g_inquire_cred.c
- lib/gssapi/mechglue/g_inquire_names.c
- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c
- lib/gssapi/mechglue/g_rel_name.c
- lib/gssapi/mechglue/g_rel_oid_set.c
- lib/gssapi/mechglue/g_seal.c
- lib/gssapi/mechglue/g_sign.c
- lib/gssapi/mechglue/g_store_cred.c
- lib/gssapi/mechglue/g_unseal.c
- lib/gssapi/mechglue/g_userok.c
- lib/gssapi/mechglue/g_utils.c
- lib/gssapi/mechglue/g_verify.c
- lib/gssapi/mechglue/gssd_pname_to_uid.c
- lib/gssapi/mechglue/mglueP.h
and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
- lib/kdb/kdb_log.h
- lib/krb5/error_tables/kdb5_err.et
- slave/kpropd_rpc.c
- slave/kproplog.c

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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That's all there is to it!
1.1407 coverage 3.6b3

1.1407.1 Available under license :
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: coverage
Version: 3.6b3
Summary: Code coverage measurement for Python
Home-page: http://nedbatchelder.com/code/coverage/3.6b3
Author: Ned Batchelder and others
Author-email: ned@nedbatchelder.com
License: BSD
Description: Coverage.py measures code coverage, typically during test execution. It uses the code analysis tools and tracing hooks provided in the Python standard library to determine which lines are executable, and which have been executed.

Coverage.py runs on Pythons 2.3 through 3.3, and PyPy 1.9.

Documentation is at `nedbatchelder.com <http://nedbatchelder.com/code/coverage/3.6b3>`_. Code repository and issue tracker are at `bitbucket.org <http://bitbucket.org/ned/coveragepy>`_.

New in 3.6: ``--fail-under``, and >20 bugs closed.

New in 3.5: Branch coverage exclusions, keyboard shortcuts in HTML report.

New in 3.4: Better control over source to measure, and unexecuted files can be reported.

New in 3.3: .coveragerc files.

New in 3.2: Branch coverage!
Keywords: code coverage testing
Platform: UNKNOWN
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Classifier: Topic :: Software Development :: Quality Assurance
Classifier: Topic :: Software Development :: Testing
Classifier: Development Status :: 4 - Beta

Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage.egg-info/PKG-
INFO
*/
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/PKG-INFO
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* Date: Thu Oct 14 23:10:06 2010 -0400
*/

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* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage/htmlfiles/jquery-1.4.3.min.js
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* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/coverage/__init__.py
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/ * Copyright (c) 2010
 * @author Laurence Wheway
 * Dual licensed under the MIT (http://www.opensource.org/licenses/mit-license.php)
and GPL (http://www.opensource.org/licenses/gpl-license.php) licenses.

@version 1.2.0
*/

Found in path(s):
* /opt/cola/permits/1154616852_161867912.55/0/coverage-3.6b3-tar-gz/coverage-3.6b3/coverage/htmlfiles/jquery.isonscreen.js
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/*
* jQuery Hotkeys Plugin
* Copyright 2010, John Resig
* Dual licensed under the MIT or GPL Version 2 licenses.
* Based upon the plugin by Tzury Bar Yochay:
* http://github.com/tzuryby/hotkeys
* Original idea by:
*/

Found in path(s):
* /opt/cola/permits/1154616852_161867912.55/0/coverage-3.6b3-tar-gz/coverage-3.6b3/coverage/htmlfiles/jquery.hotkeys.js
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* QUnit - A JavaScript Unit Testing Framework
* http://docs.jquery.com/QUnit
* Copyright (c) 2011 John Resig, Jörn Zaefferer
* Dual licensed under the MIT (MIT/LICENSE.txt)
* or GPL (GPL/LICENSE.txt) licenses.
*/

Found in path(s):
* /opt/cola/permits/1154616852_161867912.55/0/coverage-3.6b3-tar-gz/coverage-3.6b3/test/qunit/qunit.css
No license file was found, but licenses were detected in source scan.

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* http://docs.jquery.com/QUnit
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* or GPL (GPL-LICENSE.txt) licenses.
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* Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
* Date: 5/15/2008
* @projectDescription Advanced and extensible data dumping for Javascript.
* @version 1.0.0
* @author Ariel Flesler
* @link {http://flesler.blogspot.com/2008/05/jsdump-prety-dump-of-any-javascript.html}
*/
/*
* Javascript Diff Algorithm
* By John Resig (http://ejohn.org/)
* Modified by Chu Alan ”sprite”
*
* Released under the MIT license.
*
* More Info:
* http://ejohn.org/projects/javascript-diff-algorithm/
*
* Usage: QUnit.diff(expected, actual)
*
* QUnit.diff("the quick brown fox jumped over", "the quick fox jumps over") == "the quick <del>brown </del> fox <del>jumped </del><ins>jumps </ins> over"
*/

Found in path(s):
* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/test/qunit/qunit.js
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/ *
* jQuery Templates Plugin 1.0.0pre
* http://github.com/jquery/jquery-tmpl
* Requires jQuery 1.4.2
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* /opt/cola/permits/1154616852_1618867912.55/0/coverage-3-6b3-tar-gz/coverage-3.6b3/test/qunit/jquery.tmpl.min.js
1.1408 libvisual 0.4.0-16.el7

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* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ClassInfo.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/DotName.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/IndexWriter.java
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* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/TypeVariable.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/WildcardType.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodInternal.java
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* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ClassExtendsTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/UnresolvedTypeVariable.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/TypeVariable.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodInternal.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/MethodParameterTypeTarget.java
* /opt/ws_local/PERMITS_SQL/1063930911_1593103343.43/0/jandex-2-1-3-final-sources-jar/org/jboss/jandex/ClassExtendsTypeTarget.java
*/
1.1411 commons-lang3 3.5

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piet
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez, Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frédric  
Hein, Jochen  
Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keecci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frédric  
Margeviüus, Algimantas
1.1428 realm 0.16.1-11.el7

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1.1432 python-pyblock 0.53-6.el7

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#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
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src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
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  jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/ws_local/PERMITS_SQL/1068459527_1594389742.22/0/netty-transport-native-epoll-4-1-46-final-sources-1-
  jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068459527_1594389742.22/0/netty-transport-native-epoll-4-1-46-final-sources-1-
  jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068459527_1594389742.22/0/netty-transport-native-epoll-4-1-46-final-sources-1-
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  jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1068459527_1594389742.22/0/netty-transport-native-epoll-4-1-46-final-sources-1-
  jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
1.1443 rasdaemon 0.4.1-35.el7

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 */

/**
 * Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
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 */
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That's all there is to it!

1.1448 pkg-config 0.27.1-4.el7

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

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Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.1449 perl-storable 2.45 3.el7

1.1450 perl-file-path 2.09-2.el7

1.1451 sil-abyssinica-fonts 1.200-6.el7
1.1451.1 Available under license:

No license file was found, but licenses were detected in source scan.

FONTLOG
Abyssinica SIL font family
==========================

This file provides detailed information on the Abyssinica SIL font. This information should be distributed along with the Abyssinica SIL font and any derivative works.

Basic Font Information
-----------------------

Abyssinica SIL has a single face - regular.

The goal for this product was to provide a single Unicode-based font
that would contain a comprehensive inventory of glyphs needed for almost any
Ethiopic-based writing system. In addition, there is provision for other
Latin characters and symbols. This font makes use of state-of-the-art font
technologies to support the need to position arbitrary combinations of
*Ethiopic* base glyphs and combining marks optimally. It also supports
almost 200 kerning pairs. This version of the font also supports 14 Stylistic
Sets (OpenType) or Features (Graphite) which make glyph alternates available
for a number of Ethiopic and punctuation characters. See
AbyssinicaSILFontFeatures.pdf for details on applications which support
Stylistic Sets and how to access them.

One font from this typeface family is included in this release:

* Abyssinica SIL Regular

ChangeLog
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(This should list both major and minor changes, most recent first.)

13 December 2010 (Lorna Priest) Abyssinica SIL version 1.200
- Updated for Unicode 6.0 (U+AB00..U+AB2F)
- Added Stylistic Sets and Graphite Features
- does not include AAT support

1 June 2006 (Jonathan Kew)
- AAT source added

25 May 2006 (SIL NRSI team) Abyssinica SIL version 1.0
- First version released under the SIL Open Font License

Information for Contributors
----------------------------

The release of Abyssinica SIL version 1.0 under the OFL license provides a
means for people to contribute to the project. For information on what
you're allowed to change or modify, consult the OFL and OFL-FAQ. The OFL-FAQ
also gives a very general rationale regarding why you would want to
contribute to the project.

Anyone can make their own modified version of Abyssinica SIL (using a different
name), but SIL International will continue to maintain and develop the
canonical version of the Abyssinica SIL font. As the package maintainer, we
warmly welcome contributions. Here are some things to keep in mind:

Format: We are open to contributions in various formats, but if you want to
maximise the chances of us including your work, please make it available to
us (via email or a URL) as either a FontLab database (preferred) or a PostScript Type 1 (or OT-CFF) font.

Source files: We're including the FontLab database used in developing the font. The font, however, was not solely built from this FontLab database, so a simple "Generate Font" will not give you an identical result. The database is provided not as canonical source but as an aid to anyone who might find it useful to have access to it. For those who may find them useful, we are also providing the Graphite GDL file (ETKernComb.gdl), VOLT project files (Abyssinica_SIL.vtp, AboveMarks.vtg, Kern.vtl, Mark.vtl) and an AAT perl script (abyssinica-aat.pl - this is run with the .ttf and .xml files as input, and writes the actual table source, then runs one of Apple's font tools to compile the tables and add them to the .ttf. (So it can only be run on a Mac, with the Apple tools installed.)).

Copyright attribution: If you submit something for inclusion in the main Abyssinica SIL fonts, we will ask you to affirm that it is your original work, and ask you to assign the copyright of your work to SIL International. This is to ensure that future releases can be made under improved versions of the OFL without needing to track you down for further permission. This follows the same principle used by the FSF. Keep in mind that we are a not-for-profit organization committed to free/libre and open source software, and that any contributions incorporated in the fonts will always be available under the OFL or a similar license.

Quality: Because we want to be able to guarantee a high level of quality for the primary Abyssinica SIL font, we will review submissions carefully. Please don't be discouraged if we do not include a submission for this reason, or ask you to make specific revisions.

Types of contributions: If you wish to make a contribution - a set of additional glyphs, scripts, code, etc. - please contact us before you do any work to see if it is a contribution we currently need. Every addition adds to the complexity of the project and needs to be carefully planned. This also avoids two people working on the same type of addition at the same time.

When submissions will be included: We do not have a current timetable for when an updated font will be released.

Acknowledgements

(Here is where contributors can be acknowledged. If you make modifications be sure to add your name (N), email (E), web-address (W) and description (D). This list is sorted by last name in alphabetical order.)

N: Walt Agee, Victor Gaultney, Lorna Priest / Daniel Yacob, Kjell Magne Yri
E: fonts@sil.org
The Abyssinica SIL project is maintained by SIL International.

For more information please visit the Abyssinica SIL page on SIL International's Computers and Writing systems website:
http://scripts.sil.org/AbyssinicaSIL

Or send an email to <fonts AT sil DOT org>

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README
Abyssinica SIL Release 1.200
December 2010
===================================

Thank you for your interest in the Abyssinica SIL font.
We hope you find it useful!

Abyssinica SIL provides glyphs for a wide range of Ethiopic and Latin.
Please read the online documentation to see what ranges are supported.

Abyssinica SIL is released under the SIL Open Font License.
Abyssinica SIL is a trademark of SIL International.

See the OFL and OFL-FAQ for details of the SIL Open Font License.
See the FONTLOG for information on this and previous releases.
See the AbyssinicaSILFontFeatures.pdf or the Abyssinica SIL FAQ (http://scripts.sil.org/AbyssinicaSIL_Support) for frequently asked questions and their answers.
TIPS
====

We cannot afford to offer free technical support. The font has, however, been through some testing on various platforms to be sure it works in most situations. In particular, it has been tested and shown to work on Windows XP, Windows Vista and Windows 7.

If you do find a problem, please do report it to <sil_fonts AT sil DOT org>. We can't guarantee any direct response, but will try to fix reported bugs in future versions. Make sure you read through the Abyssinica SIL FAQ (http://scripts.sil.org/AbyssinicaSIL_Support).

Many problems can be solved, or at least explained, through an understanding of the encoding and use of the fonts. Here are some basic hints:

Encoding:
The fonts are encoded according to Unicode, so your application must support Unicode text in order to access letters other than the standard alphabet. Most Windows applications provide basic Unicode support. You will, however, need some way of entering Unicode text into your document.

Keyboarding:
Abyssinica SIL can be used with any Unicode Ethiopic keyboarding program. However, we have included a Keyman keyboard which you will need to download separately (SILEthiopicKeymanKbd.kmp). You will need to install the Keyman program (www.tavultesoft.com) prior to installing the Keyman keyboard. Please read the documentation (readme.html) which comes with the keyboard to learn the keyboard sequences.

This keyboard is also provided for use with KMFL. Please read the documentation (readme.html) which comes with the keyboard to learn the keyboard sequences.

Another method of entering some symbols is provided by a few applications such as Adobe InDesign. They can display a glyph palette that shows all the glyphs (symbols) in a font and allow you to enter them by clicking on the glyph you want.

Rendering:
This font is designed to work with any of three advanced font technologies, Graphite or OpenType. To take advantage of the advanced typographic capabilities of this font, you must be using applications that provide an adequate level of support for Graphite or OpenType. See "Applications that provide an adequate level of support for SIL Unicode Roman fonts" (http://scripts.sil.org/Complex_AdLvSup).
INSTALLATION AND CONFIGURATION

If you are not sure how to install the fonts, please see:
http://scripts.sil.org/DecompressUtil for instructions on font installations on various operating systems.

CONTACT

For more information please visit the Abyssinica SIL page on SIL International’s Computers and Writing systems website:
http://scripts.sil.org/AbyssinicaSIL

Or send an email to <sil_fonts AT sil DOT org>

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This license is copied below, and is also available with a FAQ at:
http://scripts.sil.org/OFL

SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007

PREAMBLE
The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply
to any document created using the fonts or their derivatives.

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License:        OFL

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* /opt/cola/permits/1145074469_1619428807.71/0/sil-abyssinica-fonts-1.200-6.el7-1.src.rpm-cosi-expand-archive-MJzrIQEQ/sil-abyssinica-fonts.spec
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OFL FAQ - Frequently Asked Questions about the SIL Open Font License (OFL)
Version 1.1-update2 - 23 August 2010
(See http://scripts.sil.org/OFL for updates)

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4 LICENSING YOUR ORIGINAL FONTS UNDER THE OFL
5 CHOOSING RESERVED FONT NAMES
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1 USING AND DISTRIBUTING FONTS LICENSED UNDER THE OFL

1.1 Can I use the fonts for a book or other print publication?
Yes. You can mention the font and author in the book's colophon if you wish, but that is not required.

1.2 Can the fonts be included with Free/Libre and Open Source Software collections such as GNU/Linux and BSD distributions?
Yes! Fonts licensed under the OFL can be freely included alongside other software under FLOSS (Free/Libre and Open Source Software) licenses. Since fonts are typically aggregated with, not merged into, existing software, there is little need to be concerned about incompatibility with existing software licenses. You may also repackage the fonts and the accompanying components in a .rpm or .deb package and include them in distribution CD/DVDs and online repositories. (Also see section 5.9 about rebuilding from source.)

1.3 I want to distribute the fonts with my program. Does this mean my program also has to be Free/Libre and Open Source Software?
No. Only the portions based on the Font Software are required to be released under the OFL. The intent of the license is to allow aggregation or bundling with software under restricted licensing as well.

1.4 Can I sell a software package that includes these fonts?
Yes, you can do this with both the Original Version and a Modified Version of the fonts. Examples of bundling made possible by the OFL would include: word processors, design and publishing applications, training and educational software, games and entertainment software, mobile device applications, etc.

1.5 Can I include the fonts on a CD of freeware or commercial fonts?
Yes, as long some other font or software is also on the disk, so the OFL font is not sold by itself.

1.6 Why won't the OFL let me sell the fonts alone?
The intent is to keep people from making money by simply redistributing the fonts. The only people who ought to profit directly from the fonts should be the original authors, and those authors have kindly given up potential direct income to distribute their fonts under the OFL. Please honour and respect their contribution!

1.7 What about sharing OFL fonts with friends on a CD, DVD or USB stick?
You are very welcome to share open fonts with friends, family and colleagues through removable media. Just remember to include the full font package, including any copyright notices and licensing information as available in OFL.txt. In the case where you sell the font, it has to come bundled with software.

1.8 Can I host the fonts on a web site for others to use?
Yes, as long as you make the full font package available. In most cases it may be best to point users to the main site that distributes the Original Version so they always get the most recent stable and complete version. See also discussion of webfonts in Section 2.

1.9 Can I host the fonts on a server for use over our internal network?
Yes. If the fonts are transferred from the server to the client computer by means that allow them to be used even if the computer is no longer attached to the network, the full package (copyright notices, licensing information, etc.) should be included.
1.10 Does the full OFL license text always need to accompany the font?
The only situation in which an OFL font can be distributed without the text of the OFL (either in a separate file or in
font metadata), is when a font is embedded in a document or bundled within a program. In the case of metadata
included within a font, it is legally sufficient to include only a link to the text of the OFL on
http://scripts.sil.org/OFL, but we strongly recommend against this. Most modern font formats include metadata
fields that will accept the full OFL text, and full inclusion increases the likelihood that users will understand and
properly apply the license.

1.11 What do you mean by 'embedding'? How does that differ from other means of distribution?
By 'embedding' we mean inclusion of the font in a document or file in a way that makes extraction (and
redistribution) difficult or clearly discouraged. In many cases the names of embedded fonts might also not be
obvious to those reading the document, the font data format might be altered, and only a subset of the font - only the
glyphs required for the text - might be included. Any other means of delivering a font to another person is
considered 'distribution', and needs to be accompanied by any copyright notices and licensing information available
in OFL.txt.

1.12 So can I embed OFL fonts in my document?
Yes, either in full or a subset. The restrictions regarding font modification and redistribution do not apply, as the
font is not intended for use outside the document.

1.13 Does embedding alter the license of the document itself?
No. Referencing or embedding an OFL font in any document does not change the license of the document itself. The
requirement for fonts to remain under the OFL does not apply to any document created using the fonts and their
derivatives. Similarly, creating any kind of graphic using a font under OFL does not make the resulting artwork
subject to the OFL.

1.14 If OFL fonts are extracted from a document in which they are embedded (such as a PDF file), what can be
done with them? Is this a risk to author(s)?
The few utilities that can extract fonts embedded in a PDF will typically output limited amounts of outlines - not a
complete font. To create a working font from this method is much more difficult and time consuming than finding
the source of the original OFL font. So there is little chance that an OFL font would be extracted and redistributed
inappropriately through this method. Even so, copyright laws address any misrepresentation of authorship. All Font
Software released under the OFL and marked as such by the author(s) is intended to remain under this license
regardless of the distribution method, and cannot be redistributed under any other license. We strongly discourage
any font extraction - we recommend directly using the font sources instead - but if you extract font outlines from a
document, please be considerate: use your common sense and respect the work of the author(s) and the licensing
model.

1.15 What about distributing fonts with a document? Within a compressed folder structure? Is it distribution,
bundling or embedding?
Certain document formats may allow the inclusion of an unmodified font within their file structure which consists of
a compressed folder containing the various resources forming the document (such as pictures and thumbnails).
Including fonts within such a structure is understood as being different from embedding but rather similar to
bundling (or mere aggregation) which the license explicitly allows. In this case the font is conveyed unchanged
whereas embedding a font usually transforms it from the original format. The OFL does not allow anyone to extract
the font from such a structure to then redistribute it under another license. The explicit permission to redistribute and
embed does not cancel the requirement for the Font Software to remain under the license chosen by its author(s).
1.16 What about ebooks shipping with open fonts?
The requirements differ depending on whether the fonts are linked, embedded or distributed (bundled or aggregated). Some ebook formats use web technologies to do font linking via @font-face, others are designed for font embedding, some use fonts distributed with the document or reading software, and a few rely solely on the fonts already present on the target system. The license requirements depend on the type of inclusion as discussed in 1.15.

1.17 Can Font Software released under the OFL be subject to URL-based access restrictions methods or DRM (Digital Rights Management) mechanisms?
Yes, but these issues are out-of-scope for the OFL. The license itself neither encourages their use nor prohibits them since such mechanisms are not implemented in the components of the Font Software but through external software. Such restrictions are put in place for many different purposes corresponding to various usage scenarios. One common example is to limit potentially dangerous cross-site scripting attacks. However, in the spirit of libre/open fonts and unrestricted writing systems, we strongly encourage open sharing and reuse of OFL fonts, and the establishment of an environment where such restrictions are unnecessary. Note that whether you wish to use such mechanisms or you prefer not to, you must still abide by the rules set forth by the OFL when using fonts released by their authors under this license. Derivative fonts must be licensed under the OFL, even if they are part of a service for which you charge fees and/or for which access to source code is restricted. You may not sell the fonts on their own - they must be part of a larger software package, bundle or subscription plan. For example, even if the OFL font is distributed in a software package or via an online service using a DRM mechanism, the user would still have the right to extract that font, use, study, modify and redistribute it under the OFL.

1.18 I've come across a font released under the OFL. How can I easily get more information about the Original Version? How can I know where it stands compared to the Original Version or other Modified Versions?
Consult the copyright statement(s) in the license for ways to contact the original authors. Consult the FONTLOG for information on how the font differs from the Original Version, and get in touch with the various contributors via the information in the acknowledgement section. Please consider using the Original Versions of the fonts whenever possible.

1.19 What do you mean in condition 4? Can you provide examples of abusive promotion / endorsement / advertisement vs. normal acknowledgement?
The intent is that the goodwill and reputation of the author(s) should not be used in a way that makes it sound like the original author(s) endorse or approve of a specific Modified Version or software bundle. For example, it would not be right to advertise a word processor by naming the author(s) in a listing of software features, or to promote a Modified Version on a web site by saying "designed by ...". However, it would be appropriate to acknowledge the author(s) if your software package has a list of people who deserve thanks. We realize that this can seem to be a grey area, but the standard used to judge an acknowledgement is that if the acknowledgement benefits the author(s) it is allowed, but if it primarily benefits other parties, or could reflect poorly on the author(s), then it is not.

2 USING OFL FONTS FOR WEBPAGES AND ONLINE WEBFONT SERVICES

2.1 Can I make webpages using these fonts?
Yes! Go ahead! Using CSS (Cascading Style Sheets) is recommended. Your three best options:
- referring directly in your stylesheet to open fonts which may be available on the user's system
- providing links to download the full package of the font - either from your own website or from elsewhere - so users can install it themselves
- using @font-face to distribute the font directly to browsers. This is recommended and explicitly allowed by the
licensing model because it is distribution. The font file itself is distributed with other components of the webpage. It is not embedded in the webpage but referenced through a web address which will cause the browser to retrieve and use the corresponding font to render the webpage (see 1.11 and 1.15 for details related to embedding fonts into documents). As you take advantage of the @font-face cross-platform standard, be aware that webfonts are often tuned for a web environment and not intended for installation and use outside a browser. The reasons in favour of using webfonts are to allow design of dynamic text elements instead of static graphics, to make it easier for content to be localized and translated, indexed and searched, and all this with cross-platform open standards without depending on restricted extensions or plugins. You should check the CSS cascade (the order in which fonts are being called or delivered to your users) when testing.

2.2 Can I make and use WOFF (Web Open Font Format) versions of OFL fonts?
Yes, but you need to be careful. A change in font format normally is considered modification, and Reserved Font Names (RFNs) cannot be used. Because of the design of the WOFF format, however, it is possible to create a WOFF version that is not considered modification, and so would not require a name change. You are allowed to create, use and distribute a WOFF version of an OFL font without changing the font name, but only if:

- the original font data remains unchanged except for WOFF compression, and
- WOFF-specific metadata is either omitted altogether or present and includes, unaltered, the contents of all equivalent metadata in the original font.

If the original font data or metadata is changed, or the WOFF-specific metadata is incomplete, the font must be considered a Modified Version, the OFL restrictions would apply and the name of the font must be changed: any RFNs cannot be used and copyright notices and licensing information must be included and cannot be deleted or modified. You must come up with a unique name - we recommend one corresponding to your domain or your particular web application. Be aware that only the original author(s) can use RFNs. This is to prevent collisions between a derivative tuned to your audience and the original upstream version and so to reduce confusion.

Please note that most WOFF conversion tools and online services do not meet the two requirements listed above, and so their output must be considered a Modified Version. So be very careful and check to be sure that the tool or service you’re using is compressing unchanged data and completely and accurately reflecting the original font metadata.

2.3 What about other webfont formats such as EOT/EOTLite/CWT/etc.?
In most cases these formats alter the original font data more than WOFF, and do not completely support appropriate metadata, so their use must be considered modification and RFNs may not be used.

2.4 Can I make OFL fonts available through webfont online services?
Yes, you are welcome to include OFL fonts in online webfont services as long as you properly meet all the conditions of the license. The origin and open status of the font should be clear among the other fonts you are hosting. Authorship, copyright notices and license information must be sufficiently visible to your users or subscribers so they know where the font comes from and the rights granted by the author(s). Make sure the font file contains the needed copyright notice(s) and licensing information in its metadata. Please double-check the accuracy of every field to prevent contradictory information. Other font formats, including EOT/EOTLite/CWT and superior alternatives like WOFF, already provide fields for this information. Remember that if you modify the font within your library or convert it to another format for any reason the OFL restrictions apply and you need to change the names accordingly. Please respect the author’s wishes as expressed in the OFL and do not misrepresent original designers and their work. Don’t lump quality open fonts together with dubious freeware or public domain fonts. Consider how you can best work with the original designers and foundries, support their efforts and generate
goodwill that will benefit your service. (See 1.17 for details related to URL-based access restrictions methods or DRM mechanisms).

2.5 Can I make and publish CMS themes or templates that use OFL fonts? Can I include the fonts themselves in the themes or templates? Can I sell the whole package?
Yes, you are very welcome to integrate open fonts into themes and templates for your preferred CMS and make them more widely available. Be aware that you can only sell the fonts and your CMS add-on as part of a software bundle. (See 1.4 for details and examples about selling bundles).

2.6 Some webfont formats and services provide ways of "optimising" the font for a particular website or web application; is that allowed?
Yes, it is permitted, but remember that these optimised versions are Modified Versions and so must follow OFL requirements like appropriate renaming. Also you need to bear in mind the other important parameters beyond compression, speed and responsiveness: you need to consider the audience of your particular website or web application, as choosing some optimisation parameters may turn out to be less than ideal for them. Subsetting by removing certain glyphs or features may seriously limit functionality of the font in various languages used by your users. It may also introduce degradation of quality in the rendering or specific bugs on the various platforms compared to the original font. In other words, remember that one person's optimised font may be another person's missing feature. Various advanced typographic features are also available through CSS and may provide the desired effects without the need to modify the font.

3 MODIFYING OFL-LICENSED FONTS

3.1 Can I change the fonts? Are there any limitations to what things I can and cannot change?
You are allowed to change anything, as long as such changes do not violate the terms of the license. In other words, you are not allowed to remove the copyright statement(s) from the font, but you could put additional information into it that covers your contribution.

3.2 I have a font that needs a few extra glyphs - can I take them from an OFL licensed font and copy them into mine?
Yes, but if you distribute that font to others it must be under the OFL, and include the information mentioned in condition 2 of the license.

3.3 Can I charge people for my additional work? In other words, if I add a bunch of special glyphs and/or OpenType/Graphite code, can I sell the enhanced font?
Not by itself. Derivative fonts must be released under the OFL and cannot be sold by themselves. It is permitted, however, to include them in a larger software package (such as text editors, office suites or operating systems), even if the larger package is sold. In that case, you are strongly encouraged, but not required, to also make that derived font easily and freely available outside of the larger package.

3.4 Can I pay someone to enhance the fonts for my use and distribution?
Yes. This is a good way to fund the further development of the fonts. Keep in mind, however, that if the font is distributed to others it must be under the OFL. You won't be able to recover your investment by exclusively selling the font, but you will be making a valuable contribution to the community. Please remember how you have benefited from the contributions of others.

3.5 I need to make substantial revisions to the font to make it work with my program. It will be a lot of work, and a
big investment, and I want to be sure that it can only be distributed with my program. Can I restrict its use?
No. If you redistribute a Modified Version of the font it must be under the OFL. You may not restrict it in any way
beyond what the OFL permits and requires. This is intended to ensure that all released improvements to the fonts
become available to everyone. But you will likely get an edge over competitors by being the first to distribute a
bundle with the enhancements. Again, please remember how you have benefited from the contributions of others.

3.6 Do I have to make any derivative fonts (including extended source files, build scripts, documentation, etc.)
publicly available?
No, but please consider sharing your improvements with others. You may find that you receive in return more than
what you gave.

3.7 If a trademark is claimed in the OFL font, does that trademark need to remain in modified fonts?
Yes, any trademark notices must remain in any derivative fonts to respect trademark laws, but you may add any
additional trademarks you claim, officially registered or not. For example if an OFL font called "Foo" contains a
notice that "Foo is a trademark of Acme", then if you rename the font to "Bar" when creating a Modified Version,
the new trademark notice could say "Foo is a trademark of Acme Inc. - Bar is a trademark of Roadrunner
Technologies Ltd.". Trademarks work alongside the OFL and are not subject to the terms of the licensing agreement.
Please refer to the appropriate trademark laws.

4 LICENSING YOUR ORIGINAL FONTS UNDER THE OFL

4.1 Can I use the SIL OFL for my own fonts?
Yes! We heartily encourage everyone to use the OFL to distribute their own original fonts. It is a carefully
constructed license that allows great freedom along with enough artistic integrity protection for the work of the
authors as well as clear rules for other contributors and those who redistribute the fonts. The licensing model is used
successfully by various organisations, both for-profit and not-for-profit, to release fonts of varying levels of scope
and complexity.

4.2 What do I have to do to apply the OFL to my font?
If you want to release your fonts under the OFL, we recommend you do the following:

4.2.1 Put your copyright and Reserved Font Names information at the beginning of the main OFL.txt file in place of
the dedicated placeholders. Include this file in your release package.

4.2.2 Put your copyright and the OFL text with Reserved Font Names into your font files (the copyright and license
fields). A link to the OFL text on the OFL web site is an acceptable (but not recommended) alternative. Also add
this information to any other components (build scripts, glyph databases, documentation, test files, etc). Depending
on the format of your fonts and sources, you can use template human-readable headers or machine-readable
metadata.

4.2.3 Write an initial FONTLOG.txt for your font and include it in the release package.

4.2.4 Include the relevant practical documentation on the license by including the OFL-FAQ.txt in your package.

4.3 Will you make my font OFL for me?
We won't do the work for you. We can, however, try to answer your questions, unfortunately we do not have the
resources to review and check your font packages for correct use of the OFL.
4.4 Will you distribute my OFL font for me?
No, although if the font is of sufficient quality and general interest we may include a link to it on our partial list of OFL fonts on the OFL web site. You may wish to consider other open font catalogs or hosting services, such as the Unifont Font Guide (http://unifont.org/fontguide), The League of Movable Type (http://theleagueofmovabletype.com), Kernest (http://kernest.com/) or the Open Font Library (http://openfontlibrary.org/), which despite the name has no direct relationship to the OFL or SIL. We do not endorse any particular catalog or hosting service - it is your responsibility to determine if the service is right for you.

4.5 Why should I use the OFL for my fonts?
- to meet needs for fonts that can be modified to support minority languages
- to provide a legal and clear way for people to respect your work but still use it (and reduce piracy)
- to involve others in your font project
- to enable your fonts to be expanded with new weights and improved writing system/language support
- to allow more technical font developers to add features to your design (such as OpenType and Graphite support)
- to renew the life of an old font lying on your hard drive with no business model
- to allow your font to be included in Libre Software operating systems like Ubuntu
- to give your font world status and wide, unrestricted distribution
- to educate students about quality typeface and font design
- to expand your test base and get more useful feedback
- to extend your reach to new markets when users see your metadata and go to your website
- to get your font more easily into one of the webfont online services
- to attract attention for your commercial fonts
- to make money through webfont services
- to make money by bundling fonts with applications
- to make money adjusting and extending existing open fonts
- to get a better chance that foundations/NGOs/charities/companies who commission fonts will pick you
- to be part of a sharing design and development community
- to give back and contribute to a growing body of font sources

5 CHOOSING RESERVED FONT NAMES

5.1 What are Reserved Font Names?
These are font names, or portions of font names, that the author has chosen to reserve for use only with the Original Version of the font, or for Modified Version(s) created by the original author.

5.2 Why can't I use the Reserved Font Names in my derivative font names? I'd like people to know where the design came from.
The best way to acknowledge the source of the design is to thank the original authors and any other contributors in the files that are distributed with your revised font (although no acknowledgement is required). The FONTLOG is a natural place to do this. Reserved Font Names ensure that the only fonts that have the original names are the unmodified Original Versions. This allows designers to maintain artistic integrity while allowing collaboration to happen. It eliminates potential confusion and name conflicts. When choosing a name, be creative and avoid names that reuse almost all the same letters in the same order or sound like the original. It will help everyone if Original Versions and Modified Versions can easily be distinguished from one another and from other derivatives. Any substitution and matching mechanism is outside the scope of the license.
5.3 What do you mean by “primary name as presented to the user”? Are you referring to the font menu name? Yes, this applies to the font menu name and other mechanisms that specify a font in a document. It would be fine, however, to keep a text reference to the original fonts in the description field, in your modified source file or in documentation provided alongside your derivative as long as no one could be confused that your modified source is the original. But you cannot use the Reserved Font Names in any way to identify the font to the user (unless the Copyright Holder(s) allow(s) it through a separate agreement). Users who install derivatives (Modified Versions) on their systems should not see any of the original Reserved Font Names in their font menus, for example. Again, this is to ensure that users are not confused and do not mistake one font for another and so expect features only another derivative or the Original Version can actually offer.

5.4 Am I not allowed to use any part of the Reserved Font Names? You may not use individual words from the Reserved Font Names, but you would be allowed to use parts of words, as long as you do not use any word from the Reserved Font Names entirely. We do not recommend using parts of words because of potential confusion, but it is allowed. For example, if "Foobar" was a Reserved Font Name, you would be allowed to use "Foo" or "bar", although we would not recommend it. Such an unfortunate choice would confuse the users of your fonts as well as make it harder for other designers to contribute.

5.5 So what should I, as an author, identify as Reserved Font Names? Original authors are encouraged to name their fonts using clear, distinct names, and only declare the unique parts of the name as Reserved Font Names. For example, the author of a font called "Foobar Sans" would declare "Foobar" as a Reserved Font Name, but not "Sans", as that is a common typographical term, and may be a useful word to use in a derivative font name. Reserved Font Names should also be single words. A font called "Flowing River" should have Reserved Font Names "Flowing" and "River", not "Flowing River". You also need to be very careful about reserving font names which are already linked to trademarks (whether registered or not) which you do not own.

5.6 Do I, as an author, have to identify any Reserved Font Names? No, but we strongly encourage you to do so. This is to avoid confusion between your work and Modified Versions.

5.7 Are any names (such as the main font name) reserved by default? No. That is a change to the license as of version 1.1. If you want any names to be Reserved Font Names, they must be specified after the copyright statement(s).

5.8 Is there any situation in which I can use Reserved Font Names for a Modified Version? The Copyright Holder(s) can give certain trusted parties the right to use any of the Reserved Font Names through separate written agreements. For example, even if "Foobar" is a RFN, you could write up an agreement to give company "XYZ" the right to distribute a modified version with a name that includes "Foobar". This allows for freedom without confusion.

5.9 Do font rebuilds require a name change? Do I have to change the name of the font when my packaging workflow includes a full rebuild from source? Yes, all rebuilds which change the font data and the smart code are Modified Versions and the requirements of the OFL apply: you need to respect what the Author(s) have chosen in terms of Reserved Font Names. However if a package (or installer) is simply a wrapper or a compressed structure around the final font - leaving them intact on the inside - then no name change is required. Please get in touch with the author(s) and copyright holder(s) to inquire about the presence of font sources beyond the final font file(s) and the recommended build path. That build path may very well be non-trivial and hard to reproduce accurately by the maintainer. If a full font build path is made available by the upstream author(s) please be aware that any regressions and changes you may introduce when doing a rebuild for packaging purposes is your responsibility as a package maintainer since you are effectively creating a
separate branch. You should make it very clear to your users that your rebuilt version is not the canonical one from upstream.

5.10 Can I add other Reserved Font Names when making a derivative font?
Yes. List your additional Reserved Font Names after your additional copyright statement, as indicated with example placeholders at the top of the OFL.txt file. Be sure you do not remove any exiting RFNs but only add your own.

6 ABOUT THE FONTLOG

6.1 What is this FONTLOG thing exactly?
It has three purposes: 1) to provide basic information on the font to users and other developers, 2) to document changes that have been made to the font or accompanying files, either by the original authors or others, and 3) to provide a place to acknowledge authors and other contributors. Please use it!

6.2 Is the FONTLOG required?
It is not a requirement of the license, but we strongly recommend you have one.

6.3 Am I required to update the FONTLOG when making Modified Versions?
No, but users, designers and other developers might get very frustrated with you if you don't. People need to know how derivative fonts differ from the original, and how to take advantage of the changes, or build on them. There are utilities that can help create and maintain a FONTLOG, such as the FONTLOG support in FontForge.

6.4 What should the FONTLOG look like?
It is typically a separate text file (FONTLOG.txt), but can take other formats. It commonly includes these four sections:

- brief header describing the FONTLOG itself and name of the font family
- Basic Font Information - description of the font family, purpose and breadth
- ChangeLog - chronological listing of changes
- Acknowledgements - list of authors and contributors with contact information

It could also include other sections, such as: where to find documentation, how to make contributions, information on contributing organizations, source code details, and a short design guide. See Appendix A for an example FONTLOG.

7 MAKING CONTRIBUTIONS TO OFL PROJECTS

7.1 Can I contribute work to OFL projects?
In many cases, yes. It is common for OFL fonts to be developed by a team of people who welcome contributions from the wider community. Contact the original authors for specific information on how to participate in their projects.

7.2 Why should I contribute my changes back to the original authors?
It would benefit many people if you contributed back in response to what you've received. Your contributions and improvements to the fonts and other components could be a tremendous help and would encourage others to contribute as well and 'give back'. You will then benefit from other people's contributions as well. Sometimes
maintaining your own separate version takes more effort than merging back with the original. Be aware that any contributions, however, must be either your own original creation or work that you own, and you may be asked to affirm that clearly when you contribute.

7.3 I've made some very nice improvements to the font. Will you consider adopting them and putting them into future Original Versions?
Most authors would be very happy to receive such contributions. Keep in mind that it is unlikely that they would want to incorporate major changes that would require additional work on their end. Any contributions would likely need to be made for all the fonts in a family and match the overall design and style. Authors are encouraged to include a guide to the design with the fonts. It would also help to have contributions submitted as patches or clearly marked changes - the use of smart source revision control systems like subversion, svk, mercurial, git or bzr is a good idea. Please follow the recommendations given by the author(s) in terms of preferred source formats and configuration parameters for sending contributions. If this is not indicated in a FONTLOG or other documentation of the font, consider asking them directly. Examples of useful contributions are bug fixes, additional glyphs, stylistic alternates (and the smart font code to access them) or improved hinting. Keep in mind that some kinds of changes (esp. hinting) may be technically difficult to integrate.

7.4 How can I financially support the development of OFL fonts?
It is likely that most authors of OFL fonts would accept financial contributions - contact them for instructions on how to do this. Such contributions would support future development. You can also pay for others to enhance the fonts and contribute the results back to the original authors for inclusion in the Original Version.

8 ABOUT THE LICENSE ITSELF

8.1 I see that this is version 1.1 of the license. Will there be later changes?
Version 1.1 is the first minor revision of the OFL. We are confident that version 1.1 will meet most needs, but are open to future improvements. Any revisions would be for future font releases, and previously existing licenses would remain in effect. No retroactive changes are possible, although the Copyright Holder(s) can re-release the font under a revised OFL. All versions will be available on our web site: http://scripts.sil.org/OFL.

8.2 Does this license restrict the rights of the Copyright Holder(s)?
No. The Copyright Holder(s) still retain(s) all the rights to their creation; they are only releasing a portion of it for use in a specific way. For example, the Copyright Holder(s) may choose to release a 'basic' version of their font under the OFL, but sell a restricted 'enhanced' version. Only the Copyright Holder(s) can do this.

8.3 Is the OFL a contract or a license?
The OFL is a license and not a contract and so does not require you to sign it to have legal validity. By using, modifying and redistributing components under the OFL you indicate that you accept the license.

8.4 I really like the terms of the OFL, but want to change it a little. Am I allowed to take ideas and actual wording from the OFL and put them into my own custom license for distributing my fonts?
We strongly recommend against creating your very own unique open licensing model. Using a modified or derivative license will likely cut you off - along with the font(s) under that license - from the community of designers using the OFL, potentially expose you and your users to legal liabilities, and possibly put your work and rights at risk. The OFL went though a community and legal review process that took years of effort, and that review is only applicable to an unmodified OFL. The text of the OFL has been written by SIL (with review and consultation from the community) and is copyright (c) 2005-2010 SIL International. You may re-use the ideas and wording (in
part, not in whole) in another non-proprietary license provided that you call your license by another unambiguous name, that you do not use the preamble, that you do not mention SIL and that you clearly present your license as different from the OFL so as not to cause confusion by being too similar to the original. If you feel the OFL does not meet your needs for an open license, please contact us.

8.5 Can I translate the license and the FAQ into other languages? 
SIL certainly recognises the need for people who are not familiar with English to be able to understand the OFL and its use. Making the license very clear and readable has been a key goal for the OFL, but we know that people understand their own language best.

If you are an experienced translator, you are very welcome to translate the OFL and OFL-FAQ so that designers and users in your language community can understand the license better. But only the original English version of the license has legal value and has been approved by the community. Translations do not count as legal substitutes and should only serve as a way to explain the original license. SIL - as the author and steward of the license for the community at large - does not approve any translation of the OFL as legally valid because even small translation ambiguities could be abused and create problems.

SIL gives permission to publish unofficial translations into other languages provided that they comply with the following guidelines:

- Put the following disclaimer in both English and the target language stating clearly that the translation is unofficial:

“This is an unofficial translation of the SIL Open Font License into <language_name>. It was not published by SIL International, and does not legally state the distribution terms for fonts that use the OFL. A release under the OFL is only valid when using the original English text. However, we recognize that this unofficial translation will help users and designers not familiar with English to better understand and use the OFL. We encourage designers who consider releasing their creation under the OFL to read the OFL-FAQ in their own language if it is available. Please go to http://scripts.sil.org/OFL for the official version of the license and the accompanying OFL-FAQ."

- Keep your unofficial translation current and update it at our request if needed, for example if there is any ambiguity which could lead to confusion.

If you start such a unofficial translation effort of the OFL and OFL-FAQ please let us know.

9 ABOUT SIL INTERNATIONAL

9.1 Who is SIL International and what do they do? 
SIL serves language communities worldwide, building their capacity for sustainable language development, by means of research, translation, training and materials development. SIL makes its services available to all without regard to religious belief, political ideology, gender, race, or ethnic background. SIL’s members and volunteers share a Christian commitment.

9.2 What does this have to do with font licensing? 
The ability to read, write, type and publish in one’s own language is one of the most critical needs for millions of people around the world. This requires fonts that are widely available and support lesser-known languages. SIL develops - and encourages others to develop - a complete stack of writing systems implementation components available under open licenses. This open stack includes input methods, smart fonts, smart rendering libraries and
smart applications. There has been a need for a common open license that is specifically applicable to fonts and related software (a crucial component of this stack), so SIL developed the SIL Open Font License with the help of the Free/Libre and Open Source Software community.

9.3 How can I contact SIL?
Our main web site is: http://www.sil.org/
Our site about complex scripts is: http://scripts.sil.org/
Information about this license (and contact information) is at: http://scripts.sil.org/OFL

APPENDIX A - FONTLOG EXAMPLE

Here is an example of the recommended format for a FONTLOG, although other formats are allowed.

-----
FONTLOG for the GlobalFontFamily fonts

This file provides detailed information on the GlobalFontFamily Font Software. This information should be distributed along with the GlobalFontFamily fonts and any derivative works.

Basic Font Information

GlobalFontFamily is a Unicode typeface family that supports all languages that use the Latin script and its variants, and could be expanded to support other scripts.

NewWorldFontFamily is based on the GlobalFontFamily and also supports Greek, Hebrew, Cyrillic and Armenian.

More specifically, this release supports the following Unicode ranges...
This release contains...
Documentation can be found at...
To contribute to the project...

ChangeLog

1 August 2008 (Tom Parker) GlobalFontFamily version 1.2.1
- Tweaked the smart font code (Branch merged with trunk version)
- Provided improved build and debugging environment for smart behaviours

7 February 2007 (Pat Johnson) NewWorldFontFamily Version 1.3
- Added Greek and Cyrillic glyphs

7 March 2006 (Fred Foobar) NewWorldFontFamily Version 1.2
- Tweaked contextual behaviours

1 Feb 2005 (Jane Doe) NewWorldFontFamily Version 1.1
- Improved build script performance and verbosity
- Extended the smart code documentation
- Corrected minor typos in the documentation
- Fixed position of combining inverted breve below (U+032F)
- Added OpenType/Graphite smart code for Armenian
- Added Armenian glyphs (U+0531 -> U+0587)
- Released as “NewWorldFontFamily”

1 Jan 2005 (Joe Smith) GlobalFontFamily Version 1.0
- Initial release

Acknowledgements

If you make modifications be sure to add your name (N), email (E), web-address (if you have one) (W) and description (D). This list is in alphabetical order.

N: Jane Doe
E: jane@university.edu
W: http://art.university.edu/projects/fonts
D: Contributor - Armenian glyphs and code

N: Fred Foobar
E: fred@foobar.org
W: http://foobar.org
D: Contributor - misc Graphite fixes

N: Pat Johnson
E: pat@fontstudio.org
W: http://pat.fontstudio.org
D: Designer - Greek & Cyrillic glyphs based on Roman design

N: Tom Parker
E: tom@company.com
W: http://www.company.com/tom/projects/fonts
D: Engineer - original smart font code

N: Joe Smith
E: joe@fontstudio.org
W: http://joe.fontstudio.org
D: Designer - original Roman glyphs

Fontstudio.org is an not-for-profit design group whose purpose is...
Foobar.org is a distributed community of developers...
Company.com is a small business who likes to support community designers...
University.edu is a renowned educational institution with a strong design department...

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Found in path(s):
1.1452 joda-convert 1.2

1.1452.1 Available under license:

=============================================================================  
= NOTICE file corresponding to section 4d of the Apache License Version 2.0 =  
=============================================================================  

This product includes software developed by  
Joda.org (http://www.joda.org/).

Apache License  
Version 2.0, January 2004  
http://www.apache.org/licenses/  

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"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

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"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

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granted to You under this License for that Work shall terminate as of the date such litigation is filed.

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Mesa 3-D graphics library
Version: 7.0

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/**
 * <p>
 * Creates a new WebUserDataPermission with the specified name and actions.
 * </p>
 *
 * <p>
 * The name contains a URLPatternSpec that identifies the web resources to which the permissions applies. The syntax
 * of a URLPatternSpec is as follows:
 * </p>
 *<pre>
URLPatternList ::= URLPattern | URLPatternList colon URLPattern
*

URLPatternSpec ::= null | URLPattern | URLPattern colon URLPatternList
*

</pre>
*
*
* <p>
* A null URLPatternSpec is translated to the default URLPattern, "/", by the permission constructor. The empty
* string is an exact URLPattern, and may occur anywhere in a URLPatternSpec that an exact URLPattern may
* occur. The
* first URLPattern in a URLPatternSpec may be any of the pattern types, exact, path-prefix, extension, or default
* as
* defined in the Java Servlet Specification). When a URLPatternSpec includes a URLPatternList, the patterns of the
* URLPatternList identify the resources to which the permission does NOT apply and depend on the pattern type and
* value of the first pattern as follows:
* <ul>
* <li>No pattern may exist in the URLPatternList that matches the first pattern.</li>
* </ul>
* If the first pattern is a path-prefix pattern, only exact patterns matched by the first pattern and path-prefix patterns matched by, but different from, the first pattern may occur in the URLPatternList.

* If the first pattern is an extension pattern, only exact patterns that are matched by the first pattern and path-prefix patterns may occur in the URLPatternList.

* If the first pattern is the default pattern, "/", any pattern except the default pattern may occur in the URLPatternList.

* If the first pattern is an exact pattern a URLPatternList must not be present in the URLPatternSpec.

The actions parameter contains a comma separated list of HTTP methods that may be followed by a transportType separated from the HTTP method by a colon.

* ExtensionMethod ::= any token as defined by RFC 2616
  (that is, 1*[any CHAR except CTLs or separators])

* HTTPMethod ::= "GET" | "POST" | "PUT" | "DELETE" | "HEAD" |
  "OPTIONS" | "TRACE" | ExtensionMethod

* HTTPMethodList ::= HTTPMethod | HTTPMethodList comma HTTPMethod

* HTTPMethodExceptionList ::= exclamationPoint HTTPMethodList

* HTTPMethodSpec ::= emptyString | HTTPMethodExceptionList |
  HTTPMethodList

* transportType ::= "INTEGRAL" | "CONFIDENTIAL" | "NONE"

* actions ::= null | HTTPMethodSpec |
  HTTPMethodSpec colon transportType

If duplicates occur in the HTTPMethodSpec they must be eliminated by the permission constructor.

An empty string HTTPMethodSpec is a shorthand for a List containing all the possible HTTP methods.

An actions string without a transportType is a shorthand for a actions string with the value "NONE" as its TransportType.
A granted permission representing a transportType of "NONE", indicates that the associated resources may be accessed using any connection type.

@permission

- the URLPatternSpec that identifies the application specific web resources to which the permission pertains. All URLPatterns in the URLPatternSpec are relative to the context path of the deployed web application module, and the same URLPattern must not occur more than once in a URLPatternSpec. A null URLPatternSpec is translated to the default URLPattern, "/", by the permission constructor. All colons occurring within the URLPattern elements of the URLPatternSpec must be represented in escaped encoding.
- as defined in RFC 2396.
- @param name
- identifies the HTTP methods and transport type to which the permission pertains. If the value passed through this parameter is null or the empty string, then the permission is constructed with actions corresponding to all the possible HTTP methods and transportType "NONE".

Returns a canonical String representation of the actions of this WebUserDataPermission. The canonical form of the actions of a WebUserDataPermission is described by the following syntax description.

ExtensionMethod ::= any token as defined by RFC 2616
 legis, [\[any CHAR except CTLs or separators\]]
HTTPMethod ::= "GET" | "POST" | "PUT" | "DELETE" | "HEAD" |
"OPTIONS" | "TRACE" | ExtensionMethod
HTTPMethodList ::= HTTPMethod | HTTPMethodList comma HTTPMethod
HTTPMethodExceptionList ::= exclamationPoint HTTPMethodList
HTTPMethodSpec ::= emptyString | HTTPMethodExceptionList | HTTPMethodList
transportType ::= "INTEGRAL" | "CONFIDENTIAL" | "NONE"
actions ::= null | HTTPMethodList | HTTPMethodSpec colon transportType
*/

If the permission's HTTP methods include the entire HTTP method set and the permission's transport type is "INTEGRAL" or "CONFIDENTIAL", the HTTP methods shall be represented in the canonical form by an empty string HTTPMethodSpec. If the permission's HTTP methods include the entire HTTP method set and the permission's
transport
* type is not "INTEGRAL" or "CONFIDENTIAL", the canonical actions value shall be the null value.
* </p>
*
* <p>
* If the permission's methods do not include the entire HTTP method set, duplicates must be eliminated and the
* remaining elements must be sorted into ascending lexical order. The resulting HTTPMethodList must be
* included in
* the canonical form, and if the permission's transport type is not "INTEGRAL" or "CONFIDENTIAL", the
canonical
* actions value must be exactly the resulting HTTPMethodList.
* </p>
*
* @return a String containing the canonicalized actions of this WebUserDataPermission (or the null value).
*/

Found in path(s):
* /opt/cola/permits/1123626722_1610730002.44/0/jboss-jacc-api-1-4-spec-1-0-2-final-sources-1-
jar/javax/security/jacc/WebUserDataPermission.java

1.1456 nettle 2.7.1-8.el7
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1.1473 xorg-x11-font-utils 7.5-21.el7

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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/builtins/telnet/ConnectionFilter.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/console/ScriptEngine.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/builtins/Builtins.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/terminal/impl/jna/JnaSupportImpl.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/terminal/spi/JansiSupport.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/console/CommandRegistry.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/builtins/SystemRegistryImpl.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/builtins/SystemRegistry.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/terminal/spi/CompletionsSupport.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/builtins/InetAddress.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/interpreter/CompletionConfig.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/builtins/TTop.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources.jar/org/jline/utils/Log.java

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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/console/ConfigurationPath.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/Candidate.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/completer/ArgumentCompleter.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/Status.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/LineReader.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/TerminalBuilder.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/InfoCmp.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/utils/AttributedCharSequence.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/builtins/Tmux.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/SyntaxError.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/terminal/impl/jansi/osx/OsXNativePty.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/SimpleMaskingCallback.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/org/jline/reader/impl/BufferImpl.java
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* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/utils/StyleResolver.java
* /opt/cola/permits/1095753885_1601493809.25/0/jline-3-15-0-sources-jar/jline/utils/DefaultHistory.java

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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
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no_esc_ctlc, xsb, xb
no_pad_char, npc, NP
non_dest_scroll_region, ndscr, ND
non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
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label_width, lw, lw
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lines_of_memory, lm, lm
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exit_shadow_mode, rshm, ZU
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exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
fixed_pause, pause, PA
flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
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init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, Ic
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
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key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kctab, kt
key_c1, kc1, K4
key_c3, kc3, K5
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key_il, kill1, kA
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key_sprint, kPRT, %f
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key_sredo, kRDO, %g
key_srepl, kRPL, %h
key_sright, kRIT, %i
key_sresume, kRES, %j
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key_ssuspend, kSPD, !2
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key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
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keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, 10
lab_f1, lf1, 11
lab_f10, lf10, la
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lab_f3, lf3, 13
lab_f4, lf4, 14
lab_f5, lf5, 15
lab_f6, lf6, 16
lab_f7, lf7, 17
lab_f8, lf8, 18
lab_f9, lf9, 19
label_format, fln, Lf
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scroll_forward, ind, sf
scroll_reverse, ri, sr
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set_bottom_margin_parm, smgbp, Zl
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set_top_margin, smgt, Zo
set_top_margin_parm, smgtp, Zp
set_window, wind, wi
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start_char_set_def, scsd, Zr
stop_bit_image, rbim, Zs
stop_char_set_def, rcsd, Zt
subscript_characters, subcs, Zu
superscript_characters, supcs, Zv
tab, ht, ta
tabbed, ht, ta
tone, tone, TO
underline_char, uc, uc
up_half_line, hu, hu
user0, u0, u0
user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
wait_tone, wait, WA
xoff_character, xoffc, XF
xon_character, xonc, XN
zero_motion, zerom, Zx
alt_scancode_esc, scesa, S8
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The MariaDB packages were initialy made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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 Python interface to tdb.

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  jar/org/drools/rule/BaseAnnotatedAsset.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
  jar/org/drools/agent/impl/FailureDetectingSystemEventListener.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
  jar/org/drools/reteoo/WindowNode.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
  jar/org/drools/fluent/impl/ReflectiveMatcherAssertCommand.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
  jar/org/drools/reteoo/WindowTupleList.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
  jar/org/drools/world/impl/WorldImpl.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
  jar/org/drools/reteoo/Unlinkable.java

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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
  jar/org/drools/factmodel/EnumLiteralDefinition.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
  jar/org/drools/factmodel/EnumLiteralDefinition.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/factmodel/traits/TraitFactory.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/factmodel/traits/Thing.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/factmodel/ClassBuilderFactory.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/factmodel/traits/TraitClassBuilderImpl.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/factmodel/traits/TraitPropertyWrapperClassBuilder.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/factmodel/BuildUtils.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/factmodel/traits/TraitMapPropertyWrapperClassBuilderImpl.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/audit/event/RuleFlowVariableLogEvent.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/debug/AccumulateNodeVisitor.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/reteoo/builder/FromBuilder.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/time/impl/CalendarUtils.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/reteoo/builder/FromBuilder.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/event/knowledgebase/impl/BeforeRuleRemovedEventImpl.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/time/impl/CalendarUtils.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/reteoo/ReteooRuleBuilderFactory.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/event/knowledgebase/impl/BeforeRuleRemovedEventImpl.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/impl/KnowledgeBaseFactoryServiceImpl.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/common/ObjectTypeConfigurationRegistry.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/ClassObjectFilter.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/process/instance/WorkItemHandler.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/reteoo/RuleRemovalContext.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/base/DefaultConsequenceExceptionHandler.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/base/extractors/MVELDateClassFieldReader.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/time/impl/IntervalTimer.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/base/CalendarsImpl.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/rule/MVELDialectRuntimeData.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/base/InternalViewChangedEventListener.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/index/ConcurrentRightTupleList.java
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jar/org/drools/marshalling/impl/MarshallerProviderImpl.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/reteoo/AsyncSingleLeftTupleSinkAdapter.java
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jar/org/drools/event/knowledgebase/impl/BeforeKnowledgePackageAddedEventImpl.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
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jar/org/drools/command/runtime/rule/ClearAgendaCommand.java
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*/opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/FileManager.java
*/opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/ClassUtils.java
*/opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/debug/DefaultNodeInfo.java
*/opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/marshalling/impl/RuleBaseNodes.java
*/opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/runtime/help/impl/CommandsList.java
*/opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/definitions/rule/impl/RuleImpl.java
*/opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/agent/HttpClientImpl.java
*/opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/marshalling/impl/PersisterHelper.java
*/opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/reteoo/builder/AccumulateBuilder.java
*/opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/base/extractors/BaseDoubleClassFieldWriter.java
*/opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/rule/QueryElement.java
jar/org/drools/command/runtime/rule/GetFactHandlesCommand.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/event/rule/impl/ObjectUpdatedEventImpl.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/runtime/help/impl/ParameterContainer.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/spi/Salience.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/factmodel/Fact.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/event/rule/impl/SerializableRuleFlowGroup.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/reteoo/ModifyPreviousTuples.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/core/util/IteratorChain.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/reteoo/builder/ForallBuilder.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/reteoo/AccumulateNode.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/reteoo/LeftTupleMemory.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/core/util/DroolsStreamUtils.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-
jar/org/drools/base/JavaFactRegistryEntry.java

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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/common/QueryElementFactHandle.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/WorkingMemoryEntryPoint.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/base/extractors/BaseBooleanClassFieldWriter.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/ArrayIterator.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/facttemplates/FactTemplateFieldExtractor.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/io/impl/UrlResource.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/common/RuleBasePartitionId.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/base/extractors/BaseCharClassFieldReader.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/mvel/MVELCompilationUnit.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/agent/FileScanner.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/base/extractors/BaseLongClassFieldReader.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/ThreadSafeJavaIteratorAdapter.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/base/extractors/MVELNumberClassFieldReader.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/spi/GlobalExporter.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/process/instance/WorkItem.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/debug/RightInputAdapterNodeVisitor.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/facttemplates/Fact.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/base/evaluators/SetEvaluatorsDefinition.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/time/JobContext.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/base/FieldAccessor.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/marshalling/impl/IdentityPlaceholderResolverStrategy.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/time/impl/PointInTimeTrigger.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/process/core/WorkDefinitionExtension.java
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* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/RightTupleRBTree.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/LeftTupleRBTree.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/rule/DefaultLogicTransformerFactory.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/rule/LogicTransformerFactory.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/RBTree.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/RightTupleRBTree.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/LeftTupleRBTree.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/rule/DefaultLogicTransformerFactory.java
* /opt/cola/permits/1198997404_1637274328.85/0/drools-core-5-6-0-final-sources-jar/org/drools/core/util/RightTupleRBTree.java
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* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-jar/org/osgi/resource/Wire.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-jar/org/osgi/resource/Wiring.java

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/**
**
** Test if a given requirement should be wired in the resolve operation. If
** this method returns { @code false }, then the resolver should ignore this
** requirement during the resolve operation.
**
** @param requirement The Requirement to test. Must not be { @code null }.
** @return { @code true } if the requirement should be considered as part of
** the resolve operation.
*/

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* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources.jar/org/jboss/osgi/resolver/XElement.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources.jar/org/jboss/osgi/resolver/XResourceBuilderFactory.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources.jar/org/jboss/osgi/resolver/XEnvironment.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources.jar/org/jboss/osgi/resolver/spi/ResourceIndexComparator.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources.jar/org/jboss/osgi/resolver/XBundleRevisionBuilderFactory.java
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* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources.jar/org/jboss/osgi/resolver/XAttributeSupport.java
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  jar/org/osgi/resource/Requirement.java
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  jar/org/osgi/framework/wiring/BundleRevisions.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3.0.1-final-redhat-1-sources-
  jar/org/osgi/service/resolver/ResolutionException.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3.0.1-final-redhat-1-sources-
  jar/org/osgi/resource/Capability.java

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  jar/org/osgi/framework/namespace/ExecutionEnvironmentNamespace.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3.0.1-final-redhat-1-sources-
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* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-jar/org/osgi/util/tracker/ServiceTracker.java

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* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-jar/org/osgi/util/tracker/BundleTrackerCustomizer.java
* /opt/cola/permits/1192071542_1637274321.66/0/jbosgi-resolver-api-3-0-1-final-redhat-1-sources-jar/org/osgi/util/tracker/AbstractTracked.java
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1.1486 pygobject 2.28.6-11.el7

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html
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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
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1.1507 rpcbind 0.2.0-48.el7

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1.1508 open-ldap 2.4.44-23.el7_9

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1.1511 python-ipaddress 1.0.16-2.el7

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1.1512 libxml 2.9.1-6.el7.5

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1.1513 mousetweaks 3.12.0-1.el7

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.1516 kerberos 1.19.2
1.1516.1 Available under license:

[ NOTE: MIT has only incorporated the mechglue and spnego change, and not the incremental propagation changes. The filenames are different between the Sun and MIT sources. The actual MIT filenames appear in the top-level README file. Original text of Sun's LICENSE file follows. ]

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```
cmd/krb5/iprop/iprop.x
    cmd/krb5/iprop/iprop_hdr.h
    cmd/krb5/kadmin/server/ipropd_svc.c
    cmd/krb5/kproplog/kproplog.c
    cmd/krb5/slave/kpropd_rpc.c
    lib/gss_mechs/mech_krb5/et/kdb5_err.c
    lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
    lib/gss_mechs/mech_spnego/mach/spnego_mech.c
    lib/krb5/kadm5/kadm_host_srv_names.c
    lib/krb5/kdb/kdb_convert.c
    lib/krb5/kdb/kdb_hdr.h
    lib/krb5/kdb/kdb_log.c
    lib/krb5/kdb/kdb_log.h
    lib/libgss/g_accept_sec_context.c
    lib/libgss/g_acquire_cred.c
    lib/libgss/g_canon_name.c
    lib/libgss/g_compare_name.c
    lib/libgss/g_context_time.c
    lib/libgss/g_delete_sec_context.c
    lib/libgss/g_dsp_name.c
    lib/libgss/g_dsp_status.c
    lib/libgss/g_dup_name.c
    lib/libgss/g_exp_sec_context.c
    lib/libgss/g_export_name.c
    lib/libgss/g_glue.c
    lib/libgss/g_imp_name.c
    lib/libgss/g_imp_sec_context.c
    lib/libgss/g_init_sec_context.c
    lib/libgss/g_initialize.c
    lib/libgss/g_inquire_context.c
    lib/libgss/g_inquire_cred.c
    lib/libgss/g_inquire_names.c
    lib/libgss/g_process_context.c
    lib/libgss/g_rel_buffer.c
    lib/libgss/g_rel_cred.c
```
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g Utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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If distribution of object code is made by offering access to copy
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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Otherwise, if the work is a derivative of the Library, you may
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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Version 3, 29 June 2007

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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 * example *.com, or c*e.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
 * If *.com is in the known suffixes list will not be allowed to match.
 * <p>
 * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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  jar/org/drools/lang/descr/EntryPointDescr.java
* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-
  jar/org/drools/lang/DroolsEditorType.java
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  jar/org/drools/lang/MVELDumper.java
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  jar/org/drools/lang/ParserHelper.java
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jar/org/drools/lang/descr/ForallDescr.java
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jar/org/drools/rule/builder/dialect/java/JavaConsequenceBuilder.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/commons/jci/compilers/JavaCompiler.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/commons/jci/stores/ResourceStore.java
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jar/org/drools/commons/jci/compilers/EclipseJavaCompiler.java
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jar/org/drools/commons/jci/readers/MemoryResourceReader.java
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* /opt/cola/permits/1111264412_1606892669.43/0/drools-compiler-5-6-0-final-sources-1-jar/org/drools/lang/descr/TypeFieldDescr.java
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WinJS

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IO-Compress

Version 2.061

19th May 2013

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DESCRIPTION
-----------
This distribution provides a Perl interface to allow reading and writing of
compressed data created with the zlib and bzip2 libraries.

IO-Compress supports reading and writing of bzip2, RFC 1950, RFC
1951, RFC 1952 (i.e. gzip) and zip files/buffers.

The following modules used to be distributed separately, but are now
included with the IO-Compress distribution.

Compress-Zlib
IO-Compress-Zlib
IO-Compress-Bzip2
IO-Compress-Base

PREREQUISITES
Before you can build IO-Compress you need to have the following installed on your system:

* Perl 5.006 or better.
* Compress::Raw::Zlib
* Compress::Raw::Bzip2

BUILDING THE MODULE
-------------------

Assuming you have met all the prerequisites, the module can now be built using this sequence of commands:

    perl Makefile.PL
    make
    make test

INSTALLATION
------------

To install IO-Compress, run the command below:

    make install

TROUBLESHOOTING
-----------------

FEEDBACK
--------

How to report a problem with IO-Compress.

To help me help you, I need all of the following information:

1. The Versions of everything relevant.
   This includes:
   a. The *complete* output from running this

      perl -V

   Do not edit the output in any way.
   Note, I want you to run "perl -V" and NOT "perl -v".

   If your perl does not understand the ",-V" option it is too old. This module needs Perl version 5.004 or better.
b. The version of IO-Compress you have.
If you have successfully installed IO-Compress, this one-liner will tell you:

    perl -MIO::Compress::Gzip -e 'print qq[ver $IO::Compress::Gzip::VERSION\n]'

If you are running windows use this

    perl -MIO::Compress::Gzip -e "print qq[ver $IO::Compress::Gzip::VERSION\n]"

If you haven't installed IO-Compress then search IO::Compress::Gzip.pm for a line like this:

    $VERSION = "2.061" ;

2. If you are having problems building IO-Compress, send me a complete log of what happened. Start by unpacking the IO-Compress module into a fresh directory and keep a log of all the steps

    [edit config.in, if necessary]
    perl Makefile.PL
    make
    make test TEST_VERBOSE=1

Paul Marquess <pmqs@cpan.org>

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=head1 NAME
IO::Uncompress::RawInflate - Read RFC 1951 files/buffers

=head1 SYNOPSIS

use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError) ;

my $status = rawinflate $input => $output [,OPTS]
    or die "rawinflate failed: $RawInflateError\n";

my $z = new IO::Uncompress::RawInflate $input [OPTS]
    or die "rawinflate failed: $RawInflateError\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
This module provides a Perl interface that allows the reading of files/buffers that conform to RFC 1951.

For writing RFC 1951 files/buffers, see the companion module IO::Compress::RawDeflate.

=head1 Functional Interface

A top-level function, C<rawinflate>, is provided to carry out “one-shot” uncompression between buffers and/or files. For finer control over the uncompression process, see the L<"OO Interface"> section.

use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError) ;
rawinflate $input_filename_or_reference => $output_filename_or_reference [ , OPTS ]
    or die "rawinflate failed: $RawInflateError\n";

The functional interface needs Perl5.005 or better.

=head2 rawinflate $input_filename_or_reference => $output_filename_or_reference [ , OPTS ]

C<rawinflate> expects at least two parameters, 
C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the 
source of the compressed data.

It can take one of the following forms:

=over 5

=item A filename

If the <$input_filename_or_reference> parameter is a simple scalar, it is 
assumed to be a filename. This file will be opened for reading and the 
input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input 
data will be read from it. The string '-' can be used as an alias for 
standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data 
will be read from C<$$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in 
the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only 
contains valid filenames before any data is uncompressed.

=item An Input FileGlob string
If $input_filename_or_reference$ is a string that is delimited by the characters "<" and ">" $rawinflate$ will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the $input_filename_or_reference$ parameter is any other type, $undef$ will be returned.

=head3 The $output_filename_or_reference$ parameter

The parameter $output_filename_or_reference$ is used to control the destination of the uncompressed data. This parameter can take one of these forms.

=over 5
=item A filename

If the $output_filename_or_reference$ parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.

=item A filehandle

If the $output_filename_or_reference$ parameter is a filehandle, the uncompressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If $output_filename_or_reference$ is a scalar reference, the uncompressed data will be stored in $output_filename_or_reference$.

=item An Array Reference

If $output_filename_or_reference$ is an array reference, the uncompressed data will be pushed onto the array.

=item An Output FileGlob

If $output_filename_or_reference$ is a string that is delimited by the characters "<" and ">" $rawinflate$ will assume that it is an I<output fileglob string>. The output is the list of files that match the
When $output_filename_or_reference$ is a fileglob string, $input_filename_or_reference$ must also be a fileglob string. Anything else is an error.

See File::GlobMapper for more details.

If the $output_filename_or_reference$ parameter is any other type, undef will be returned.

Notes

When $input_filename_or_reference$ maps to multiple compressed files/buffers and $output_filename_or_reference$ is a single file/buffer, after uncompression $output_filename_or_reference$ will contain a concatenation of all the uncompressed data from each of the input files/buffers.

Optional Parameters

Unless specified below, the optional parameters for rawinflate, OPTS, are the same as those used with the OO interface defined in the Constructor Options section below.

AutoClose => 0|1

This option applies to any input or output data streams to rawinflate that are filehandles.

If AutoClose is specified, and the value is true, it will result in all input and/or output filehandles being closed once rawinflate has completed.

This parameter defaults to 0.

BinModeOut => 0|1

When writing to a file or filehandle, set binmode before writing to the file.

Defaults to 0.

Append => 0|1
The behaviour of this option is dependent on the type of output data stream.

=item * A Buffer

If C<Append> is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any uncompressed data is written to it. Otherwise the file pointer will not be moved.

When C<Append> is specified, and set to true, it will append all uncompressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

=item C<< MultiStream => 0|1 >>

This option is a no-op.
Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option.

=head2 Examples

To read the contents of the file C<file1.txt.1951> and write the uncompressed data to the file C<file1.txt>.

    use strict ;
    use warnings ;
    use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError) ;
    my $input = "file1.txt.1951";
    my $output = "file1.txt";
    rawinflate $input => $output
      or die "rawinflate failed: $RawInflateError\n";

To read from an existing Perl filehandle, C<$input>, and write the uncompressed data to a buffer, C<$buffer>.

    use strict ;
    use warnings ;
    use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError) ;
    use IO::File ;
    my $input = new IO::File "<file1.txt.1951"
or die "Cannot open 'file1.txt.1951': $!
";
my $buffer ;
rawinflate $input => \$buffer
   or die "rawinflate failed: $RawInflateError\n";

To uncompress all files in the directory "/my/home" that match "*.txt.1951" and store the compressed data in the same directory

use strict ;
use warnings ;
use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError) ;

rawinflate '<my/home/*.txt.1951>' => '<my/home/#1.txt>'
   or die "rawinflate failed: $RawInflateError\n";

and if you want to compress each file one at a time, this will do the trick

use strict ;
use warnings ;
use IO::Uncompress::RawInflate qw(rawinflate $RawInflateError) ;

for my $input ( glob '/my/home/*.txt.1951' )
{   my $output = $input;
    $output =~ s/.1951// ;
    rawinflate $input => $output
       or die "Error compressing '$input': $RawInflateError\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::RawInflate is shown below

my $z = new IO::Uncompress::RawInflate $input [OPTS]
   or die "IO::Uncompress::RawInflate failed: $RawInflateError\n";

Returns an C<IO::Uncompress::RawInflate> object on success and undef on failure. The variable C<$RawInflateError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from IO::Uncompress::RawInflate can be used exactly like an L<IO::File> filehandle. This means that all normal input file operations can be carried out with C<$z>. For example, to read a line from a compressed file/buffer you can use either of these forms

   $line = $z->getline();
$line = <$z>;

The mandatory parameter C<$input> is used to determine the source of the compressed data. This parameter can take one of three forms.

=over 5

=item A filename

If the C<$input> parameter is a scalar, it is assumed to be a filename. This file will be opened for reading and the compressed data will be read from it.

=item A filehandle

If the C<$input> parameter is a filehandle, the compressed data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input> is a scalar reference, the compressed data will be read from C<$$input>.

=back

=head2 Constructor Options

The option names defined below are case insensitive and can be optionally prefixed by a '-'. So all of the following are valid

- AutoClose
- autoclose
  AUTOCLOSE
  autoclose

OPTS is a combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$input> parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the C<close> method is called or the IO::Uncompress::RawInflate object is destroyed.

This parameter defaults to 0.
=item C<< MultiStream => 0|1 >>

Allows multiple concatenated compressed streams to be treated as a single compressed stream. Decompression will stop once either the end of the file/buffer is reached, an error is encountered (premature eof, corrupt compressed data) or the end of a stream is not immediately followed by the start of another stream.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.

=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::RawInflate will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case
the file pointer will be left pointing to the first byte directly after the
compressed data stream.

This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter
of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method
will be overwritten by the uncompressed data.

Defaults to 0.

=item C<< Strict => 0|1 >>

This option is a no-op.

=back

=head2 Examples

TODO

=head1 Methods

=head2 read

Usage is

$status = $z->read($buffer)

Reads a block of compressed data (the size the the compressed block is
determined by the C<Buffer> option in the constructor), uncompresses it and
writes any uncompressed data into C<$buffer>. If the C<Append> parameter is
set in the constructor, the uncompressed data will be appended to the
C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof
or a negative number on error.

=head2 read

Usage is
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)

$status = read($z, $buffer, $length)
$status = read($z, $buffer, $length, $offset)

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.

The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 getline

Usage is

$line = $z->getline()
$line = <$z>

Reads a single line.

This method fully supports the use of of the variable C<$/> (or C<$INPUT_RECORD_SEPARATOR> or C<$RS> when C<English> is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

$char = $z->getc()

Read a single character.

=head2 ungetc

Usage is

$char = $z->ungetc($string)

=head2 inflateSync
$status = $z->inflateSync()

TODO

=head2 getHeaderInfo

Usage is

$hdr = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list
or hash references (in array context) that contains information about each
of the header fields in the compressed data stream(s).

=head2 tell

Usage is

$z->tell()

tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction
that it is only legal to seek forward in the input file/buffer.
It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide
true random access to a compressed file/buffer. It works by uncompressing
data from the current offset in the file/buffer until it reaches the
uncompressed offset specified in the parameters to C<seek>. For very small
files this may be acceptable behaviour. For large files it may cause an
unacceptable delay.
The \$whence\ parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

\$z->binmode

    binmode \$z ;

This is a noop provided for completeness.

=head2 opened

\$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

    my \$prev = \$z->autoflush()
    my \$prev = \$z->autoflush(EXPR)

If the \$z object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If \$EXPR is present, and is non-zero, it will enable flushing after every write/print operation.

If \$z is associated with a buffer, this method has no effect and always returns \$undef.

B<Note> that the special variable \$| cannot be used to set or retrieve the autoflush setting.

=head2 input_line_number

\$z->input_line_number()

\$z->input_line_number(EXPR)

Returns the current uncompressed line number. If \$EXPR is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of \$/ are used to determine what constitutes a line terminator.
$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

$z->close()
close $z;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Uncompress::RawInflate object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Uncompress::RawInflate object was created, and the object is associated with a file, the underlying file will also be closed.

Usage is

my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and C<$> will be reset to 0.
Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.

=head2 trailingData

Usage is

    my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::RawInflate at present.

=head1 EXAMPLES
=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP">

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
F<http://www.faqs.org/rfcs/rfc1950.html>,
F<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is F<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2013 Paul Marquess. All rights reserved.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Uncompress::Inflate - Read RFC 1950 files/buffers

=head1 SYNTAXS

use IO::Uncompress::Inflate qw(inflate $InflateError) ;

my $status = inflate $input => $output [,OPTS]
  or die "inflate failed: $InflateError\n";

my $z = new IO::Uncompress::Inflate $input [OPTS]
  or die "inflate failed: $InflateError\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
$char = $z->opened()

$status = $z->inflateSync()

$data = $z->trailingData()
$status = $z->nextStream()
$data = $z->getHeaderInfo()
$z->tell()
$z->seek($position, $whence)
$z->binmode()
$z->fileno()
$z->eof()
$z->close()

$InflateError ;

# IO::File mode

<$z>
read($z, $buffer);
read($z, $buffer, $length);
read($z, $buffer, $length, $offset);
tell($z)
seek($z, $position, $whence)
binmode($z)
fileno($z)
eof($z)
close($z)

=head1 DESCRIPTION

This module provides a Perl interface that allows the reading of files/buffers that conform to RFC 1950.

For writing RFC 1950 files/buffers, see the companion module IO::Compress::Deflate.

=head1 Functional Interface

A top-level function, C<inflate>, is provided to carry out "one-shot" uncompression between buffers and/or files. For finer control over the uncompression process, see the L</"OO Interface"> section.

use IO::Uncompress::Inflate qw(inflate $InflateError) ;

inflate $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "inflate failed: $InflateError
";

The functional interface needs Perl5.005 or better.

=head2 inflate $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<inflate> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the compressed data.

It can take one of the following forms:

=over 5

=item A filename

If the <$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

=item A filehandle


If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C$inflate> will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the destination of the uncompressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.
=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the uncompressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the uncompressed data will be stored in C<$output_filename_or_reference>.

=item An Array Reference

If C<$output_filename_or_reference> is an array reference, the uncompressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<inflate> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is an fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head2 Notes

When C<$input_filename_or_reference> maps to multiple compressed files/buffers and C<$output_filename_or_reference> is a single file/buffer, after uncompression C<$output_filename_or_reference> will contain a concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<inflate>, C<OPTS>, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.
This option applies to any input or output data streams to `inflated` that are filehandles.

If `AutoClose` is specified, and the value is true, it will result in all input and/or output filehandles being closed once `inflated` has completed.

This parameter defaults to 0.

When writing to a file or filehandle, set `binmode` before writing to the file.

Defaults to 0.

The behaviour of this option is dependent on the type of output data stream.

If `Append` is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.

If `Append` is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.

If `Append` is enabled, the filehandle will be positioned to the end of the file via a call to `seek` before any uncompressed data is written to it. Otherwise the file pointer will not be moved.

When `Append` is specified, and set to true, it will `append` all uncompressed
data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

=item C<< MultiStream => 0|1 >>

If the input file/buffer contains multiple compressed data streams, this option will uncompress the whole lot as a single data stream.

Defaults to 0.

=item C<< TrailingData => $scalar >>

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option.

=back
=head2 Examples

To read the contents of the file C<file1.txt.1950> and write the uncompressed data to the file C<file1.txt>.

use strict ;
use warnings ;
use IO::Uncompress::Inflate qw(inflate $InflateError) ;

my $input = "file1.txt.1950";
my $output = "file1.txt";
inflate $input => $output
   or die "inflate failed: $InflateError\n";

To read from an existing Perl filehandle, C<$input>, and write the uncompressed data to a buffer, C<$buffer>.

use strict ;
use warnings ;
use IO::Uncompress::Inflate qw(inflate $InflateError) ;
use IO::File ;

my $input = new IO::File "<file1.txt.1950"
   or die "Cannot open 'file1.txt.1950': $!\n" ;
my $buffer ;
inflate $input => $buffer
   or die "inflate failed: $InflateError\n";

To uncompress all files in the directory "~/my/home" that match "*.txt.1950" and store the compressed data in the same directory

use strict ;
use warnings ;
use IO::Uncompress::Inflate qw(inflate $InflateError) ;

infla'te '</my/home/*.txt.1950>' => '</my/home/#1.txt>'
   or die "inflate failed: $InflateError\n";

and if you want to compress each file one at a time, this will do the trick

use strict ;
use warnings ;
use IO::Uncompress::Inflate qw(inflate $InflateError) ;

for my $input ( glob "~/my/home/*.txt.1950" )
{
   my $output = $input;
}
$output =~ s/.1950// ;
inflate $input => $output
    or die "Error compressing '$input': $InflateError\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::Inflate is shown below

my $z = new IO::Uncompress::Inflate $input [OPTS]
    or die "IO::Uncompress::Inflate failed: $InflateError\n";

Returns an C<IO::Uncompress::Inflate> object on success and undef on failure. The variable C<$InflateError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from IO::Uncompress::Inflate can be used exactly like a L<IO::File|IO::File> filehandle. This means that all normal input file operations can be carried out with C<$z>. For example, to read a line from a compressed file/buffer you can use either of these forms

    $line = $z->getline();
    $line = <$z>;

The mandatory parameter C<$input> is used to determine the source of the compressed data. This parameter can take one of three forms.

=over 5

=item A filename

If the C<$input> parameter is a scalar, it is assumed to be a filename. This file will be opened for reading and the compressed data will be read from it.

=item A filehandle

If the C<$input> parameter is a filehandle, the compressed data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input> is a scalar reference, the compressed data will be read from C<$$input>.

=back
=head2 Constructor Options

The option names defined below are case insensitive and can be optionally prefixed by a `-`. So all of the following are valid

  - AutoClose
  - autoclose
  AUTOCLOSE
  autoclose

OPTS is a combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$input> parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the C<close> method is called or the IO::Uncompress::Inflate object is destroyed.

This parameter defaults to 0.

=item C<< MultiStream => 0|1 >>

Allows multiple concatenated compressed streams to be treated as a single compressed stream. Decompression will stop once either the end of the file/buffer is reached, an error is encountered (premature eof, corrupt compressed data) or the end of a stream is not immediately followed by the start of another stream.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.

=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data,
the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::Inflate will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.

This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method will be overwritten by the uncompressed data.

Defaults to 0.

=item C<< Strict => 0|1 >>

This option controls whether the extra checks defined below are used when carrying out the decompression. When Strict is on, the extra tests are carried out, when Strict is off they are not.

The default for this option is off.
The ADLER32 checksum field must be present.

The value of the ADLER32 field read must match the adler32 value of the uncompressed data actually contained in the file.

Usage is

```
$status = $z->read($buffer)
```

Reads a block of compressed data (the size the the compressed block is determined by the C<Buffer> option in the constructor), uncompresses it and writes any uncompressed data into C<$buffer>. If the C<Append> parameter is set in the constructor, the uncompressed data will be appended to the C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

Usage is

```
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
```

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.
The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 getline

Usage is

$line = $z->getline()
$line = <$z>

Reads a single line.

This method fully supports the use of of the variable C<$/> (or C<$INPUT_RECORD_SEPARATOR> or C<$RS> when C<English> is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

$char = $z->getc()

Read a single character.

=head2 ungetc

Usage is

$char = $z->ungetc($string)

=head2 inflateSync

Usage is

$status = $z->inflateSync()

TODO

=head2 getHeaderInfo

Usage is
$hdr = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list or hash references (in array context) that contains information about each of the header fields in the compressed data stream(s).

=head2 tell

Usage is

$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the input file/buffer. It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide true random access to a compressed file/buffer. It works by uncompressing data from the current offset in the file/buffer until it reaches the uncompressed offset specified in the parameters to C<seek>. For very small files this may be acceptable behaviour. For large files it may cause an unacceptable delay.

The C<$whence> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode
Usage is

$z->binmode
binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

Returns the current uncompressed line number. If C<EXPR> is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of C<$/> are used to to determine what constitutes a line terminator.

=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno>
will return the underlying file descriptor. Once the `close` method is called `fileno` will return `undef`.

If the `$z` object is associated with a buffer, this method will return `undef`.

=head2 close

$z->close();
close $z;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Uncompress::Inflate object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the `close` method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call `close` explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the `AutoClose` option has been enabled when the IO::Uncompress::Inflate object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and `$.` will be reset to 0.

Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.

=head2 trailingData

Usage is
my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::Inflate at present.

=over 5

=item :all

Imports C<inflate> and C<$InflateError>.
Same as doing this

  use IO::Uncompress::Inflate qw(inflate $InflateError) ;

=back

=head1 EXAMPLES

=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP">
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  57081

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
F<http://www.faqs.org/rfcs/rfc1950.html>,
F<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is F<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

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This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1221036760_1635411574.98/0/perl-IO-Compress-2.061-2.el7-1.src.rpm-cosi-expand-archive-
BdxFmWM/IO-Compress-2.061.tar.gz-cosi-expand-archive-MGkVA6kN/IO-Compress-2.061/lib/IO/Uncompress/Inflate.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
=head1 SYNOPSIS

use IO::Compress::Deflate qw(deflate $DeflateError);

my $status = deflate $input => $output [,OPTS]
    or die "deflate failed: $DeflateError\n";

my $z = new IO::Compress::Deflate $output [,OPTS]
    or die "deflate failed: $DeflateError\n";

$z->print($string);
$z->printf($format, $string);
$z->write($string);
$z->syswrite($string [, $length, $offset]);
$z->flush();
$z->tell();
$z->eof();
$z->seek($position, $whence);
$z->binmode();
$z->fileno();
$z->opened();
$z->autoflush();
$z->input_line_number();
$z->newStream( [OPTS] );

$z->deflateParams();

$z->close();

$DeflateError;

# IO::File mode

print $z $string;
printf $z $format, $string;
tell $z
eof $z
seek $z, $position, $whence
binmode $z
fileno $z
close $z;

=head1 DESCRIPTION
This module provides a Perl interface that allows writing compressed data to files or buffer as defined in RFC 1950.

For reading RFC 1950 files/buffers, see the companion module L<IO::Uncompress::Inflate|IO::Uncompress::Inflate>.

=head1 Functional Interface

A top-level function, C<deflate>, is provided to carry out "one-shot" compression between buffers and/or files. For finer control over the compression process, see the L</"OO Interface"> section.

use IO::Compress::Deflate qw(deflate $DeflateError) ;

  deflate $input_filename_or_reference => $output_filename_or_reference [,OPTS]
  or die "deflate failed: $DeflateError\n";

The functional interface needs Perl5.005 or better.

=head2 deflate $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<deflate> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the uncompressed data.

It can take one of the following forms:

=over 5

=item A filename

If the C<$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference
If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is compressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "" and ""> C<deflate> will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the destination of the compressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.
=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the compressed data will be stored in C<$output_filename_or_reference>.

=item An Array Reference

If C<$output_filename_or_reference> is an array reference, the compressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ""> C<deflate> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is a fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head2 Notes

When C<$input_filename_or_reference> maps to multiple files/buffers and C<$output_filename_or_reference> is a single file/buffer the input files/ buffers will be stored in C<$output_filename_or_reference> as a concatenated series of compressed data streams.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<deflate>, C<OPTS>, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<deflate> that are filehandles.
If \texttt{AutoClose} is specified, and the value is true, it will result in all input and/or output filehandles being closed once \texttt{deflate} has completed.

This parameter defaults to 0.

=item \texttt{BinModeIn} => 0|1

When reading from a file or filehandle, set \texttt{binmode} before reading.

Defaults to 0.

=item \texttt{Append} => 0|1

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If \texttt{Append} is enabled, all compressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any compressed data is written to it.

=item * A Filename

If \texttt{Append} is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle

If \texttt{Append} is enabled, the filehandle will be positioned to the end of the file via a call to \texttt{seek} before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

When \texttt{Append} is specified, and set to true, it will \texttt{append} all compressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any compressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all compressed data will be appended to the existing buffer.

Conversely when \texttt{Append} is not specified, or it is present and is set to
false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any compressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any compressed data is output.

Defaults to 0.

=head2 Examples

To read the contents of the file C<file1.txt> and write the compressed data to the file C<file1.txt.1950>.

    use strict;
    use warnings;
    use IO::Compress::Deflate qw(deflate $DeflateError);

    my $input = "file1.txt";
    deflate $input => "$input.1950"
        or die "deflate failed: $DeflateError\n";

To read from an existing Perl filehandle, C<$input>, and write the compressed data to a buffer, C<$buffer>.

    use strict;
    use warnings;
    use IO::Compress::Deflate qw(deflate $DeflateError);
    use IO::File;

    my $input = new IO::File "<file1.txt"
        or die "Cannot open 'file1.txt': $!\n" ;
    my $buffer ;
    deflate $input => \$buffer
        or die "deflate failed: $DeflateError\n";

To compress all files in the directory "~/my/home" that match "*.txt" and store the compressed data in the same directory.

    use strict;
    use warnings;
    use IO::Compress::Deflate qw(deflate $DeflateError);

    deflate '~/~/my/home/*.txt' => '/*.1950'
        or die "deflate failed: $DeflateError\n";
and if you want to compress each file one at a time, this will do the trick

```perl
use strict;
use warnings;
use IO::Compress::Deflate qw(deflate $DeflateError);

for my $input ( glob "*/my/home/*.txt" )
{
    my $output = "$input.1950";
    deflate $input => $output
    or die "Error compressing '$input': $DeflateError\n";
}
```

=head1 OO Interface

=head2 Constructor

The format of the constructor for C<IO::Compress::Deflate> is shown below

```perl
my $z = new IO::Compress::Deflate $output [,OPTS]
    or die "IO::Compress::Deflate failed: $DeflateError\n";
```

It returns an C<IO::Compress::Deflate> object on success and undef on failure. The variable C<$DeflateError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from IO::Compress::Deflate can be used exactly like an L<IO::File> filehandle. This means that all normal output file operations can be carried out with C<$z>.

For example, to write to a compressed file/buffer you can use either of these forms

```perl
$z->print("hello world\n");
print $z "hello world\n";
```

The mandatory parameter C<$output> is used to control the destination of the compressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle
If the C<$output> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output> is a scalar reference, the compressed data will be stored in C<$output>.

=back

If the C<$output> parameter is any other type, C<IO::Compress::Deflate>::new will return undef.

=head2 Constructor Options

C<OPTS> is any combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$output> parameter is a filehandle. If specified, and the value is true, it will result in the C<$output> being closed once either the C<close> method is called or the C<IO::Compress::Deflate> object is destroyed.

This parameter defaults to 0.

=item C<< Append => 0|1 >>

Opens C<$output> in append mode.

The behaviour of this option is dependent on the type of C<$output>.

=over 5

=item * A Buffer

If C<$output> is a buffer and C<Append> is enabled, all compressed data will be append to the end of C<$output>. Otherwise C<$output> will be cleared before any data is written to it.

=item * A Filename

If C<$output> is a filename and C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.
=item * A Filehandle

If C<$output> is a filehandle, the file pointer will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.  

=back

This parameter defaults to 0.

=item C<< Merge => 0|1 >>

This option is used to compress input data and append it to an existing compressed data stream in C<$output>. The end result is a single compressed data stream stored in C<$output>.  

It is a fatal error to attempt to use this option when C<$output> is not an RFC 1950 data stream.

There are a number of other limitations with the C<Merge> option:

=over 5

=item 1

This module needs to have been built with zlib 1.2.1 or better to work. A fatal error will be thrown if C<Merge> is used with an older version of zlib.

=item 2

If C<$output> is a file or a filehandle, it must be seekable.

=back

This parameter defaults to 0.

=item -Level

Defines the compression level used by zlib. The value should either be a number between 0 and 9 (0 means no compression and 9 is maximum compression), or one of the symbolic constants defined below.

Z_NO_COMPRESSION
Z_BEST_SPEED
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION
The default is Z_DEFAULT_COMPRESSION.

Note, these constants are not imported by C<IO::Compress::Deflate> by default.

use IO::Compress::Deflate qw(strategy);
use IO::Compress::Deflate qw(constants);
use IO::Compress::Deflate qw(all);

=item -Strategy

Defines the strategy used to tune the compression. Use one of the symbolic constants defined below.

Z_FILTERED
Z_HUFFMAN_ONLY
Z_RLE
Z_FIXED
Z_DEFAULT_STRATEGY

The default is Z_DEFAULT_STRATEGY.

=item C<< Strict => 0|1 >>

This is a placeholder option.

=back

=head2 Examples

TODO

=head1 Methods

=head2 print

Usage is

$z->print($data)
    print $z->data

Compresses and outputs the contents of the C<$data> parameter. This has the same behaviour as the C<print> built-in.

Returns true if successful.

=head2 printf
Usage is

```perl
$z->printf($format, $data)
printf $z $format, $data
```

Compresses and outputs the contents of the C<$data> parameter.

Returns true if successful.

=head2 syswrite

Usage is

```perl
$z->syswrite $data
$z->syswrite $data, $length
$z->syswrite $data, $length, $offset
```

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 write

Usage is

```perl
$z->write $data
$z->write $data, $length
$z->write $data, $length, $offset
```

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 flush

Usage is

```perl
$z->flush;
$z->flush($flush_type);
```

Flushes any pending compressed data to the output file/buffer.

This method takes an optional parameter, C<$flush_type>, that controls how the flushing will be carried out. By default the C<$flush_type> used is C<Z_FINISH>. Other valid values for C<$flush_type> are C<Z_NO_FLUSH>, C<Z_SYNC_FLUSH>, C<Z_FULL_FLUSH> and C<Z_BLOCK>. It is
strongly recommended that you only set the \texttt{flush_type} parameter if
you fully understand the implications of what it does - overuse of \texttt{flush}
can seriously degrade the level of compression achieved. See the \texttt{zlib}
documentation for details.

Returns true on success.

\begin{verbatim}
=head2 tell

Usage is

\$z->tell()
tell \$z

Returns the uncompressed file offset.

=head2 eof

Usage is

\$z->eof();
eof(\$z);

Returns true if the \texttt{close} method has been called.

=head2 seek

\$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the \texttt{seek} functionality, with the restriction
that it is only legal to seek forward in the output file/buffer.
It is a fatal error to attempt to seek backward.

Empty parts of the file/buffer will have NULL (0x00) bytes written to them.

The \texttt{\$whence} parameter takes one the usual values, namely \texttt{SEEK_SET},
\texttt{SEEK_CUR} or \texttt{SEEK_END}.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

\$z->binmode
binmode \$z ;
This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

This method always returns C<undef> when compressing.

=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close() ;
close $z ;
Flushes any pending compressed data and then closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Compress::Deflate object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminates.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Compress::Deflate object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 newStream([OPTS])

Usage is

$z->newStream( [OPTS] )

Closes the current compressed data stream and starts a new one.

OPTS consists of any of the the options that are available when creating the C<$z> object.

See the L</"Constructor Options"> section for more details.

=head2 deflateParams

Usage is

$z->deflateParams

TODO

=head1 Importing

A number of symbolic constants are required by some methods in C<IO::Compress::Deflate>. None are imported by default.

=over 5
Imports \texttt{C<deflate>}, \texttt{C<$DeflateError>} and all symbolic constants that can be used by \texttt{C<IO::Compress::Deflate>}. Same as doing this

\begin{verbatim}
use IO::Compress::Deflate qw(deflate $DeflateError :constants) ;
\end{verbatim}

Import all symbolic constants. Same as doing this

\begin{verbatim}
use IO::Compress::Deflate qw(:flush :level :strategy) ;
\end{verbatim}

These symbolic constants are used by the \texttt{C<flush>} method.

- \texttt{Z_NO_FLUSH}
- \texttt{Z_PARTIAL_FLUSH}
- \texttt{Z_SYNC_FLUSH}
- \texttt{Z_FULL_FLUSH}
- \texttt{Z_FINISH}
- \texttt{Z_BLOCK}

These symbolic constants are used by the \texttt{C<Level>} option in the constructor.

- \texttt{Z_NO_COMPRESSION}
- \texttt{Z_BEST_SPEED}
- \texttt{Z_BEST_COMPRESSION}
- \texttt{Z_DEFAULT_COMPRESSION}

These symbolic constants are used by the \texttt{C<Strategy>} option in the constructor.

- \texttt{Z_FILTERED}
- \texttt{Z_HUFFMAN_ONLY}
- \texttt{Z_RLE}
- \texttt{Z_FIXED}
- \texttt{Z_DEFAULT_STRATEGY}
=head1 EXAMPLES

=head2 Apache::GZip Revisited

See L<IO::Compress::FAQ::Compressed::FAQ/'Apache::GZip Revisited'>

=head2 Working with Net::FTP

See L<IO::Compress::FAQ::Compressed::FAQ/'Compressed files and Net::FTP'>

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<Uncompress::Gunzip>, L<Uncompress::Inflate>,
L<Compress::RawDeflate>, L<Uncompress::RawInflate>, L<Compress::Bzip2>,
L<Uncompress::Bunzip2>, L<Compress::Lzma>, L<Uncompress::UnLzma>, L<Compress::Xz>,
L<Uncompress::UnXz>, L<Compress::Lzop>, L<Uncompress::UnLzop>, L<Compress::Lzf>,
L<Uncompress::UnLzf>, L<Uncompress::AnyInflate>, L<Uncompress::AnyUncompress>

L<Compress::FAQ::Compressed::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
F<http://www.faqs.org/rfcs/rfc1950.html>,
F<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is F<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2013 Paul Marquess. All rights reserved.
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Compress::RawDeflate - Write RFC 1951 files/buffers

=head1 SYNOPSIS

use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError) ;

my $status = rawdeflate $input => $output [,OPTS]
  or die "rawdeflate failed: $RawDeflateError\n";

my $z = new IO::Compress::RawDeflate $output [,OPTS]
  or die "rawdeflate failed: $RawDeflateError\n";

$z->print($string);
$z->printf($format, $string);
$z->write($string);
$z->syswrite($string [, $length, $offset]);
$z->flush();
$z->tell();
$z->eof();
$z->seek($position, $whence);
$z->binmode();
$z->fileno();
$z->opened();
$z->autoflush();
$z->input_line_number();
$z->newStream( [OPTS] );

$z->deflateParams();

$z->close() ;

$RawDeflateError ;

# IO::File mode
print $z $string;
printf $z $format, $string;
tell $z
eof $z
seek $z, $position, $whence
binmode $z
fileno $z
close $z ;

=head1 DESCRIPTION

This module provides a Perl interface that allows writing compressed
data to files or buffer as defined in RFC 1951.

Note that RFC 1951 data is not a good choice of compression format
to use in isolation, especially if you want to auto-detect it.

For reading RFC 1951 files/buffers, see the companion module
L<IO::Uncompress::RawInflate|IO::Uncompress::RawInflate>.

=head1 Functional Interface

A top-level function, C<rawdeflate>, is provided to carry out
"one-shot" compression between buffers and/or files. For finer
control over the compression process, see the L</"OO Interface">
section.

use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError) ;

rawdeflate $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "rawdeflate failed: $RawDeflateError\n";

The functional interface needs Perl 5.005 or better.

=head2 rawdeflate $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<rawdeflate> expects at least two parameters,
C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the
source of the uncompressed data.

It can take one of the following forms:
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 57100

If the \$input_filename_or_reference parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

If the \$input_filename_or_reference parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

If \$input_filename_or_reference is a scalar reference, the input data will be read from \$input_filename_or_reference.

If \$input_filename_or_reference is an array reference, each element in the array must be a filename.

The complete array will be walked to ensure that it only contains valid filenames before any data is compressed.

If \$input_filename_or_reference is a string that is delimited by the characters "<" and ">" \$rawdeflate will assume that it is an input fileglob string. The input is the list of files that match the fileglob.

See L<File::GlobMapper,File::GlobMapper> for more details.

If the \$input_filename_or_reference parameter is any other type, \$undef will be returned.

The parameter \$output_filename_or_reference is used to control the destination of the compressed data. This parameter can take one of these forms.
If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the compressed data will be stored in C<$output_filename_or_reference>.

=item An Array Reference

If C<$output_filename_or_reference> is an array reference, the compressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<rawdeflate> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is a fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head2 Notes

When C<$input_filename_or_reference> maps to multiple files/buffers and C<$output_filename_or_reference> is a single file/buffer the input files/buffers will be stored
in `$output_filename_or_reference` as a concatenated series of compressed data streams.

=head2 Optional Parameters

Unless specified below, the optional parameters for `rawdeflate`, `OPTS`, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to `rawdeflate` that are filehandles.

If `AutoClose` is specified, and the value is true, it will result in all input and/or output filehandles being closed once `rawdeflate` has completed.

This parameter defaults to 0.

=item C<< BinModeIn => 0|1 >>

When reading from a file or filehandle, set `binmode` before reading.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If `Append` is enabled, all compressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any compressed data is written to it.

=item * A Filename

If `Append` is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle
If $<\text{Append}>$ is enabled, the filehandle will be positioned to the end of the file via a call to $<\text{seek}>$ before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

When $<\text{Append}>$ is specified, and set to true, it will $<\text{append}>$ all compressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any compressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all compressed data will be appended to the existing buffer.

Conversely when $<\text{Append}>$ is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any compressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any compressed data is output.

Defaults to 0.

=back

=head2 Examples

To read the contents of the file $<\text{file1.txt}>$ and write the compressed data to the file $<\text{file1.txt.1951}>$.

use strict ;
use warnings ;
use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError) ;

my $input = "file1.txt";
rawdeflate $input => "$input.1951"
   or die "rawdeflate failed: $RawDeflateError\n";

To read from an existing Perl filehandle, $<\text{input}>$, and write the compressed data to a buffer, $<\text{buffer}>$.

use strict ;
use warnings ;
use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError) ;
use IO::File ;

my $input = new IO::File "<file1.txt"
or die "Cannot open 'file1.txt': $!
";
my $buffer;
rawdeflate $input => $buffer
  or die "rawdeflate failed: $RawDeflateError\n";

To compress all files in the directory "/my/home" that match "*.txt"
and store the compressed data in the same directory

use strict;
use warnings;
use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError) ;

rawdeflate '</my/home/*.txt>' => '</*.1951>'
  or die "rawdeflate failed: $RawDeflateError\n";

and if you want to compress each file one at a time, this will do the trick

use strict;
use warnings;
use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError) ;

for my $input ( glob "*/my/home/*.txt" )
{
  my $output = "$input.1951" ;
  rawdeflate $input => $output
    or die "Error compressing '$input': $RawDeflateError\n";
}

=head1 OO Interface
=head2 Constructor

The format of the constructor for C<IO::Compress::RawDeflate> is shown below

my $z = new IO::Compress::RawDeflate $output [,OPTS]
  or die "IO::Compress::RawDeflate failed: $RawDeflateError\n";

It returns an C<IO::Compress::RawDeflate> object on success and undef on failure.
The variable C<$RawDeflateError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Compress::RawDeflate can be used exactly like an L<IO::File> filehandle.
This means that all normal output file operations can be carried out
with C<$z>.
For example, to write to a compressed file/buffer you can use either of
these forms

$z->print("hello world\n");
print $z "hello world\n";

The mandatory parameter C<$output> is used to control the destination of the compressed data. This parameter can take one of these forms.

=over 5
=item A filename

If the C<$output> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the C<$output> parameter is a filehandle, the compressed data will be written to it.
The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output> is a scalar reference, the compressed data will be stored in C<$$output>.

=back

If the C<$output> parameter is any other type, C<IO::Compress::RawDeflate>::new will return undef.

=head2 Constructor Options

C<OPTS> is any combination of the following options:

=over 5
=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$output> parameter is a filehandle. If specified, and the value is true, it will result in the C<$output> being closed once either the C<close> method is called or the C<IO::Compress::RawDeflate> object is destroyed.
This parameter defaults to 0.

=item C<< Append => 0|1 >>

Opens C<$output> in append mode.
The behaviour of this option is dependent on the type of \$output.

\* A Buffer

If \$output is a buffer and Append is enabled, all compressed data will be appended to the end of \$output. Otherwise \$output will be cleared before any data is written to it.

\* A Filename

If \$output is a filename and Append is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

\* A Filehandle

If \$output is a filehandle, the file pointer will be positioned to the end of the file via a call to seek before any compressed data is written to it. Otherwise the file pointer will not be moved.

This parameter defaults to 0.

\<< Merge => 0|1 >>

This option is used to compress input data and append it to an existing compressed data stream in \$output. The end result is a single compressed data stream stored in \$output.

It is a fatal error to attempt to use this option when \$output is not an RFC 1951 data stream.

There are a number of other limitations with the Merge option:

\* This module needs to have been built with zlib 1.2.1 or better to work. A fatal error will be thrown if Merge is used with an older version of zlib.

\* If \$output is a file or a filehandle, it must be seekable.
This parameter defaults to 0.

Defines the compression level used by zlib. The value should either be a number between 0 and 9 (0 means no compression and 9 is maximum compression), or one of the symbolic constants defined below.

Z_NO_COMPRESSION
Z_BEST_SPEED
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION

The default is Z_DEFAULT_COMPRESSION.

Note, these constants are not imported by C<IO::Compress::RawDeflate> by default.

use IO::Compress::RawDeflate qw(:strategy);
use IO::Compress::RawDeflate qw(:constants);
use IO::Compress::RawDeflate qw(:all);

Defines the strategy used to tune the compression. Use one of the symbolic constants defined below.

Z_FILTERED
Z_HUFFMAN_ONLY
Z_RLE
Z_FIXED
Z_DEFAULT_STRATEGY

The default is Z_DEFAULT_STRATEGY.

This is a placeholder option.
=head2 print

Usage is

$z->print($data)
print $z $data

Compresses and outputs the contents of the C<$data> parameter. This has the same behaviour as the C<print> built-in.

Returns true if successful.

=head2 printf

Usage is

$z->printf($format, $data)
printf $z $format, $data

Compresses and outputs the contents of the C<$data> parameter.

Returns true if successful.

=head2 syswrite

Usage is

$z->syswrite $data
$z->syswrite $data, $length
$z->syswrite $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 write

Usage is

$z->write $data
$z->write $data, $length
$z->write $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if
Flushes any pending compressed data to the output file/buffer.

This method takes an optional parameter, C<$flush_type>, that controls how the flushing will be carried out. By default the C<$flush_type> used is C<Z_FINISH>. Other valid values for C<$flush_type> are C<Z_NO_FLUSH>, C<Z_SYNC_FLUSH>, C<Z_FULL_FLUSH> and C<Z_BLOCK>. It is strongly recommended that you only set the C<$flush_type> parameter if you fully understand the implications of what it does - overuse of C<flush> can seriously degrade the level of compression achieved. See the C<zlib> documentation for details.

Returns true on success.

Returns the uncompressed file offset.

Returns true if the C<close> method has been called.

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the output file/buffer. It is a fatal error to attempt to seek backward.
Empty parts of the file/buffer will have NULL (0x00) bytes written to them.

The C<$whence$> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
  binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

  my $prev = $z->autoflush()
  my $prev = $z->autoflush(EXPR)

If the C<$z$> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z$> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|$> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
  $z->input_line_number(EXPR)

This method always returns C<undef> when compressing.

=head2 fileno
$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno>
will return the underlying file descriptor. Once the C<close> method is
called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return
C<undef>.

=head2 close

$z->close() ;
close $z ;

Flushes any pending compressed data and then closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if
the IO::Compress::RawDeflate object is destroyed (either explicitly or by the
variable with the reference to the object going out of scope). The
exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In
these cases, the C<close> method will be called automatically, but
not until global destruction of all live objects when the program is
terminating.

Therefore, if you want your scripts to be able to run on all versions
of Perl, you should call C<close> explicitly and not rely on automatic
closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Compress::RawDeflate
object was created, and the object is associated with a file, the
underlying file will also be closed.

=head2 newStream([OPTS])

Usage is

$z->newStream( [OPTS] )

Closes the current compressed data stream and starts a new one.

OPTS consists of any of the the options that are available when creating
the C<$z> object.

See the L</"Constructor Options"> section for more details.
Usage is

$z->deflateParams

TODO

Importing

A number of symbolic constants are required by some methods in C<IO::Compress::RawDeflate>. None are imported by default.

Imports C<rawdeflate>, C<$RawDeflateError> and all symbolic constants that can be used by C<IO::Compress::RawDeflate>. Same as doing this

use IO::Compress::RawDeflate qw(rawdeflate $RawDeflateError :constants) ;

Import all symbolic constants. Same as doing this

use IO::Compress::RawDeflate qw(:flush :level :strategy) ;

These symbolic constants are used by the C<flush> method.

Z_NO_FLUSH
Z_PARTIAL_FLUSH
Z_SYNC_FLUSH
Z_FULL_FLUSH
Z_FINISH
Z_BLOCK

These symbolic constants are used by the C<Level> option in the constructor.

Z_NO_COMPRESSION
Z_BEST_SPEED
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION
These symbolic constants are used by the C<Strategy> option in the constructor.

```
  Z_FILTERED
  Z_HUFFMAN_ONLY
  Z_RLE
  Z_FIXED
  Z_DEFAULT_STRATEGY
```

=head1 EXAMPLES

=head2 Apache::GZip Revisited

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Apache::GZip Revisited">

=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP">

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
F<http://www.faqs.org/rfcs/rfc1950.html>,
F<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is
The primary site for gzip is F<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2013 Paul Marquess. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):

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=back

Test::Simple will start by printing number of tests run in the form "1..M" (so "1..5" means you're going to run 5 tests). This strange format lets Test::Harness know how many tests you plan on running in case something goes horribly wrong.

If all your tests passed, Test::Simple will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Simple will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0 all tests successful
255 test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.
This module is by no means trying to be a complete testing system. It's just to get you started. Once you're off the ground it's recommended you look at L</Test::More>.

=head1 EXAMPLE

Here's an example of a simple .t file for the fictional Film module.

use Test::Simple tests => 5;

use Film;  # What you're testing.

my $btaste = Film->new({ Title    => 'Bad Taste',
                       Director => 'Peter Jackson',
                       Rating   => 'R',
                       NumExplodingSheep => 1
                   });

ok( defined($btaste) && ref $btaste eq 'Film, 'new() works');

ok( $btaste->Title      eq 'Bad Taste',     'Title() get'    );
ok( $btaste->Director   eq 'Peter Jackson', 'Director() get' );
ok( $btaste->Rating     eq 'R',             'Rating() get'   );
ok( $btaste->NumExplodingSheep == 1,        'NumExplodingSheep() get' );

It will produce output like this:

    1..5
    ok 1 - new() works
    ok 2 - Title() get
    ok 3 - Director() get
    not ok 4 - Rating() get
    # Failed test (t/film.t at line 14)
    ok 5 - NumExplodingSheep() get
    # Looks like you failed 1 tests of 5

Indicating the Film::Rating() method is broken.

=head1 CAVEATS

Test::Simple will only report a maximum of 254 failures in its exit code. If this is a problem, you probably have a huge test script. Split it into multiple files. (Otherwise blame the Unix folks for using an unsigned short integer as the exit status).

Because VMS's exit codes are much, much different than the rest of the universe, and perl does horrible mangling to them that gets in my way,
it works like this on VMS.

0     SS$_NORMAL        all tests successful
4     SS$_ABORT         something went wrong

Unfortunately, I can't differentiate any further.

=head1 NOTES

Test::Simple is B<explicitly> tested all the way back to perl 5.004.

Test::Simple is thread-safe in perl 5.8.0 and up.

=head1 HISTORY

This module was conceived while talking with Tony Bowden in his
kitchen one night about the problems I was having writing some really
complicated feature into the new Testing module.  He observed that the
main problem is not dealing with these edge cases but that people hate
to write tests B<at all>.  What was needed was a dead simple module
that took all the hard work out of testing and was really, really easy
to learn.  Paul Johnson simultaneously had this idea (unfortunately,
he wasn't in Tony's kitchen).  This is it.

=head1 SEE ALSO

=over 4

=item L<Test::More>

More testing functions!  Once you outgrow Test::Simple, look at
Test::More.  Test::Simple is 100% forward compatible with Test::More
(i.e. you can just use Test::More instead of Test::Simple in your
programs and things will still work).

=item L<Test>

The original Perl testing module.

=item L<Test::Unit>

Elaborate unit testing.

=item L<Test::Inline>, L<SelfTest>

Embed tests in your code!
Interprets the output of your test program.

=heading AUTHORS

Idea by Tony Bowden and Paul Johnson, code by Michael G Schwern E<lt>schwern@pobox.comE<gt>, wardrobe by Calvin Klein.

=heading COPYRIGHT

Copyright 2001, 2002, 2004 by Michael G Schwern E<lt>schwern@pobox.comE<gt>. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

See F<http://www.perl.com/perl/misc/Artistic.html>

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=heading NAME

Compress::Zlib - Interface to zlib compression library

=heading SYNOPSIS

use Compress::Zlib ;

($d, $status) = deflateInit([OPT]) ;
$status = $d->deflate($input, $output) ;
$status = $d->flush([$flush_type]) ;
$d->deflateParams(OPTS) ;
$d->deflateTune(OPTS) ;
$d->dict_adler() ;
$d->crc32() ;
$d->adler32() ;
$d->total_in() ;
$d->total_out() ;
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

=head1 DESCRIPTION

The I<Compress::Zlib> module provides a Perl interface to the I<zlib> compression library (see L</AUTHOR> for details about where to get I<zlib>).

=head1 DESCRIPTION

The I<Compress::Zlib> module provides a Perl interface to the I<zlib> compression library (see L</AUTHOR> for details about where to get I<zlib>).
The C<Compress::Zlib> module can be split into two general areas of functionality, namely a simple read/write interface to I<gzip> files and a low-level in-memory compression/decompression interface.

Each of these areas will be discussed in the following sections.

=head2 Notes for users of Compress::Zlib version 1

The main change in C<Compress::Zlib> version 2.x is that it does not now interface directly to the zlib library. Instead it uses the C<IO::Compress::Gzip> and C<IO::Uncompress::Gunzip> modules for reading/writing gzip files, and the C<Compress::Raw::Zlib> module for some low-level zlib access.

The interface provided by version 2 of this module should be 100% backward compatible with version 1. If you find a difference in the expected behaviour please contact the author (See L</AUTHOR>). See L</GZIP INTERFACE>

With the creation of the C<IO::Compress> and C<IO::Uncompress> modules no new features are planned for C<Compress::Zlib> - the new modules do everything that C<Compress::Zlib> does and then some. Development on C<Compress::Zlib> will be limited to bug fixes only.

If you are writing new code, your first port of call should be one of the new C<IO::Compress> or C<IO::Uncompress> modules.

=head1 GZIP INTERFACE

A number of functions are supplied in I<lib> for reading and writing I<gzip> files that conform to RFC 1952. This module provides an interface to most of them.

If you have previously used C<Compress::Zlib> 1.x, the following enhancements/changes have been made to the C<gzopen> interface:

=over 5

=item 1

If you want to open either STDIN or STDOUT with C<gzopen>, you can now optionally use the special filename "C<->" as a synonym for C<A<STDIN>> and C<A<STDOUT>>.

=item 2

In C<Compress::Zlib> version 1.x, C<gzopen> used the zlib library to open the underlying file. This made things especially tricky when a Perl
filehandle was passed to `gzopen`. Behind the scenes the numeric C file descriptor had to be extracted from the Perl filehandle and this passed to the zlib library.

Apart from being non-portable to some operating systems, this made it difficult to use `gzopen` in situations where you wanted to extract/create a gzip data stream that is embedded in a larger file, without having to resort to opening and closing the file multiple times.

It also made it impossible to pass a perl filehandle that wasn't associated with a real filesystem file, like, say, an `IO::String`.

In `Compress::Zlib` version 2.x, the `gzopen` interface has been completely rewritten to use the `IO::Compress::Gzip` for writing gzip files and `IO::Uncompress::Gunzip` for reading gzip files. None of the limitations mentioned above apply.

=item 3

Addition of `gzseek` to provide a restricted `seek` interface.

=item 4.

Added `gztell`.

=back

A more complete and flexible interface for reading/writing gzip files/buffers is included with the module `IO-Compress-Zlib`. See `IO::Compress::Gzip` and `IO::Uncompress::Gunzip` for more details.

=item B

`=gzopen($filename, $mode)`

This function opens either the I<gzip> file C<$filename> for reading or writing or attaches to the opened filehandle, C<$filehandle>. It returns an object on success and C<undef> on failure.

When writing a gzip file this interface will I<always> create the smallest possible gzip header (exactly 10 bytes). If you want greater control over what gets stored in the gzip header (like the original filename or a comment) use `IO::Compress::Gzip` instead. Similarly if you want to read the contents of the gzip header use `IO::Uncompress::Gunzip` instead.
The second parameter, C<$mode$>, is used to specify whether the file is 
opened for reading or writing and to optionally specify a compression 
level and compression strategy when writing. The format of the C<$mode$> 
parameter is similar to the mode parameter to the 'C' function C<fopen>, 
so "rb" is used to open for reading, "wb" for writing and "ab" for 
appending (writing at the end of the file).

To specify a compression level when writing, append a digit between 0 
and 9 to the mode string -- 0 means no compression and 9 means maximum 
compression.
If no compression level is specified Z_DEFAULT_COMPRESSION is used.

To specify the compression strategy when writing, append 'f' for filtered 
data, 'h' for Huffman only compression, or 'R' for run-length encoding.
If no strategy is specified Z_DEFAULT_STRATEGY is used.

So, for example, "wb9" means open for writing with the maximum compression 
using the default strategy and "wb4R" means open for writing with compression 
level 4 and run-length encoding.

Refer to the I<zlib> documentation for the exact format of the C<$mode$> 
parameter.

=item B<$bytesread = $gz-E<gt>gzread($buffer [, $size]) ;>

Reads C<$size$> bytes from the compressed file into C<$buffer$>. If 
C<$size$> is not specified, it will default to 4096. If the scalar 
C<$buffer$> is not large enough, it will be extended automatically.

Returns the number of bytes actually read. On EOF it returns 0 and in 
the case of an error, -1.

=item B<$bytesread = $gz-E<gt>gzreadline($line) ;>

Reads the next line from the compressed file into C<$line$>.

Returns the number of bytes actually read. On EOF it returns 0 and in 
the case of an error, -1.

It is legal to intermix calls to C<gzread> and C<gzreadline>.

To maintain backward compatibility with version 1.x of this module 
C<gzreadline> ignores the C<$/> variable - it I<always> uses the string 
C<"\n"> as the line delimiter.

If you want to read a gzip file a line at a time and have it respect the 
C<$/> variable (or C<$INPUT_RECORD_SEPARATOR$>, or C<$RS$> when C<English> is
Write contents of `$buffer` to the compressed file. Returns the number of bytes actually written, or 0 on error.

Flushes all pending output into the compressed file.

This method takes an optional parameter, `C<$flush_type>`, that controls how the flushing will be carried out. By default the `C<$flush_type>` used is `C<Z_FINISH>`. Other valid values for `C<$flush_type>` are `C<Z_NO_FLUSH>`, `C<Z_SYNC_FLUSH>`, `C<Z_FULL_FLUSH>` and `C<Z_BLOCK>`. It is strongly recommended that you only set the `C<$flush_type>` parameter if you fully understand the implications of what it does - overuse of `C<$flush>` can seriously degrade the level of compression achieved. See the `C<zlib>` documentation for details.

Returns 0 on success.

Returns the uncompressed file offset.

Provides a sub-set of the `C<seek>` functionality, with the restriction that it is only legal to seek forward in the compressed file. It is a fatal error to attempt to seek backward.

When opened for writing, empty parts of the file will have NULL (0x00) bytes written to them.

The `C<$whence>` parameter should be one of SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

Closes the compressed file. Any pending data is flushed to the file before it is closed.

Returns 0 on success.
Change settings for the deflate stream $gz$.

The list of the valid options is shown below. Options not specified will remain unchanged.

Note: This method is only available if you are running zlib 1.0.6 or better.

=over 5

=item B<$level>

Defines the compression level. Valid values are 0 through 9, $Z\_NO\_COMPRESSION$, $Z\_BEST\_SPEED$, $Z\_BEST\_COMPRESSION$, and $Z\_DEFAULT\_COMPRESSI0N$.

=item B<$strategy>

Defines the strategy used to tune the compression. The valid values are $Z\_DEFAULT\_STRATEGY$, $Z\_FILTERED$ and $Z\_HUFFMAN\_ONLY$.

=back

=item B$gz-E<gt>gzerror>

Returns the $zlib$ error message or number for the last operation associated with $gz$. The return value will be the $zlib$ error number when used in a numeric context and the $zlib$ error message when used in a string context. The $zlib$ error number constants, shown below, are available for use.

$Z\_OK$
$Z\_STREAM\_END$
$Z\_ERRNO$
$Z\_STREAM\_ERROR$
$Z\_DATA\_ERROR$
$Z\_MEM\_ERROR$
$Z\_BUF\_ERROR$

=item B$gzerrno>

The $gzerrno$ scalar holds the error code associated with the most recent $gzip$ routine. Note that unlike $gzerror()$, the error is not associated with a particular file.

As with $gzerror()$, it returns an error number in numeric context and an error message in string context. Unlike $gzerror()$, though, the error message will correspond to the $zlib$ message when the error is associated with $zlib$ itself, or the UNIX error message when it is
As there is an overlap between the error numbers used by \texttt{zlib} and UNIX, \texttt{$\text{gzerrno}$} should only be used to check for the presence of \texttt{an} error in numeric context. Use \texttt{gzerror()} to check for specific \texttt{zlib} errors. The \texttt{gzcat} example below shows how the variable can be used safely.

\begin{verbatim}
use strict;
use warnings;

use Compress::Zlib;

# use stdin if no files supplied
@ARGV = '-' unless @ARGV;

foreach my $file (@ARGV) {
    my $buffer;
    my $gz = gzopen($file, "rb")
        or die "Cannot open $file: $gzerrno\n";
    print $buffer while $gz->gzread($buffer) > 0;
    die "Error reading from $file: $gzerrno\n ($gzerrno+0) \n" if $gzerrno != Z_STREAM_END;
    $gz->gzclose();
}
\end{verbatim}

Below is a script which makes use of \texttt{gzreadline}. It implements a very simple \texttt{grep} like script.

\begin{verbatim}
use strict;
use warnings;

use Compress::Zlib;

die "Usage: gzgrep pattern [file...]\n" unless @ARGV >= 1;
\end{verbatim}
my $pattern = shift ;

# use stdin if no files supplied
@ARGV = '-' unless @ARGV ;

foreach my $file (@ARGV) {
    my $gz = gzopen($file, "rb")
        or die "Cannot open $file: $gzerrno\n" ;

    while ($gz->gzreadline($_) > 0) {
        print if /$pattern/ ;
    }

die "Error reading from $file: $gzerrno\n"
    if $gzerrno != Z_STREAM_END ;

$gz->gzclose() ;
}

This script, I<gzstream>, does the opposite of the I<gzcat> script above. It reads from standard input and writes a gzip data stream to standard output.

use strict ;
use warnings ;

use Compress::Zlib ;

binmode STDOUT;  # gzopen only sets it on the fd

my $gz = gzopen(/STDOUT, "wb")
    or die "Cannot open stdout: $gzerrno\n" ;

while (<>) {
    $gz->gzwrite($_)
        or die "error writing: $gzerrno\n" ;
}

$gz->gzclose ;

=head2 Compress::Zlib::memGzip

This function is used to create an in-memory gzip file with the minimum possible gzip header (exactly 10 bytes).

$dest = Compress::Zlib::memGzip($buffer)
    or die "Cannot compress: $gzerrno\n" ;
If successful, it returns the in-memory gzip file. Otherwise it returns \texttt{C<undef>} and the \texttt{C<$gzerrno>} variable will store the zlib error code.

The \texttt{C<$buffer>} parameter can either be a scalar or a scalar reference.

See \texttt{L<IO::Compress::Gzip>\texttt{IO::Compress::Gzip>} for an alternative way to carry out in-memory gzip compression.

=head2 Compress::Zlib::memGunzip

This function is used to uncompress an in-memory gzip file.

\[
$dest = \text{Compress::Zlib::memGunzip}($buffer)
\]

or die "Cannot uncompress: $gzerrno\n";

If successful, it returns the uncompressed gzip file. Otherwise it returns \texttt{C<undef>} and the \texttt{C<$gzerrno>} variable will store the zlib error code.

The \texttt{C<$buffer>} parameter can either be a scalar or a scalar reference. The contents of the \texttt{C<$buffer>} parameter are destroyed after calling this function.

If \texttt{C<$buffer>} consists of multiple concatenated gzip data streams only the first will be uncompressed. Use \texttt{C<gunzip>} with the \texttt{C<MultiStream>} option in the \texttt{C<IO::Uncompress::Gunzip>} module if you need to deal with concatenated data streams.

See \texttt{L<IO::Uncompress::Gunzip>\texttt{IO::Uncompress::Gunzip>} for an alternative way to carry out in-memory gzip uncompression.

=head1 COMPRESS/UNCOMPRESS

Two functions are provided to perform in-memory compression/uncompression of RFC 1950 data streams. They are called \texttt{C<compress>} and \texttt{C<uncompress>}.  

=over 5

=item B<$dest = compress($source [, $level] ) ;>

Compresses \texttt{C<$source>}. If successful it returns the compressed data. Otherwise it returns \texttt{I<undef>}.

The source buffer, \texttt{C<$source>}, can either be a scalar or a scalar reference.

The \texttt{C<$level>} parameter defines the compression level. Valid values are 0 through 9, \texttt{C<Z_NO_COMPRESSION>}, \texttt{C<Z_BEST_SPEED>}, \texttt{C<Z_BEST_COMPRESSION>}, and \texttt{C<Z_DEFAULT_COMPRESSION>}.  


If \$level\ is not specified \$Z_DEFAULT_COMPRESSION\ will be used.

=item B \$dest = uncompress(\$source) ;>

Uncompresses \$source\. If successful it returns the uncompressed data. Otherwise it returns I\$undef\.

The source buffer can either be a scalar or a scalar reference.

=back

Please note: the two functions defined above are I\not\ compatible with the Unix commands of the same name.

See L\IO::Deflate\IO::Deflate\ and L\IO::Inflate\IO::Inflate\ included with this distribution for an alternative interface for reading/writing RFC 1950 files/buffers.

=head1 Deflate Interface

This section defines an interface that allows in-memory compression using the I\deflate\ interface provided by zlib.

Here is a definition of the interface available:

=head2 B \$(d, \$status) = deflateInit( [OPT] )>

Initialises a deflation stream.

It combines the features of the I\zlib\ functions C\deflateInit\, C\deflateInit2\ and C\deflateSetDictionary\.

If successful, it will return the initialised deflation stream, C\$d\ and C\$status\ of C\$Z_OK\ in a list context. In scalar context it returns the deflation stream, C\$d\, only.

If not successful, the returned deflation stream (C\$d\) will be I\$undef\ and C\$status\ will hold the exact I\zlib\ error code.

The function optionally takes a number of named options specified as C\<< Name=>value >>\ pairs. This allows individual options to be tailored without having to specify them all in the parameter list.

For backward compatibility, it is also possible to pass the parameters as a reference to a hash containing the name=>value pairs.

The function takes one optional parameter, a reference to a hash. The contents of the hash allow the deflation interface to be tailored.
Here is a list of the valid options:

=over 5

=item B<-Level>

Defines the compression level. Valid values are 0 through 9,
C<Z_NO_COMPRESSION>, C<Z_BEST_SPEED>, C<Z_BEST_COMPRESSION>, and
C<Z_DEFAULT_COMPRESSION>.

The default is Z_DEFAULT_COMPRESSION.

=item B<-Method>

Defines the compression method. The only valid value at present (and
the default) is Z_DEFLATED.

=item B<-WindowBits>

To create an RFC 1950 data stream, set C<WindowBits> to a positive number.
To create an RFC 1951 data stream, set C<WindowBits> to C<-MAX_WBITS>.
For a full definition of the meaning and valid values for C<WindowBits> refer
to the I<zlib> documentation for I<deflateInit2>.

Defaults to MAX_WBITS.

=item B<-MemLevel>

For a definition of the meaning and valid values for C<MemLevel>
refer to the I<zlib> documentation for I<deflateInit2>.

Defaults to MAX_MEM_LEVEL.

=item B<-Strategy>

Defines the strategy used to tune the compression. The valid values are
C<Z_DEFAULT_STRATEGY>, C<Z_FILTERED> and C<Z_HUFFMAN_ONLY>.

The default is Z_DEFAULT_STRATEGY.

=item B<-Dictionary>

When a dictionary is specified I<Compress::Zlib> will automatically
call C<deflateSetDictionary> directly after calling C<deflateInit>. The
Adler32 value for the dictionary can be obtained by calling the method
The default is no dictionary.

=item B<-Bufsize>

Sets the initial size for the deflation buffer. If the buffer has to be reallocated to increase the size, it will grow in increments of C<Bufsize>.

The default is 4096.

=back

Here is an example of using the C<deflateInit> optional parameter list to override the default buffer size and compression level. All other options will take their default values.

    deflateInit( -Bufsize => 300,
                 -Level => Z_BEST_SPEED  ) ;

=head2 B<($out, $status) = $d-E<gt>deflate($buffer)>

Deflates the contents of C<$buffer> . The buffer can either be a scalar or a scalar reference. When finished, C<$buffer> will be completely processed (assuming there were no errors). If the deflation was successful it returns the deflated output, C<$out>, and a status value, C<$status>, of C<Z_OK>.

On error, C<$out> will be I<undef> and C<$status> will contain the I<zlib> error code.

In a scalar context C<deflate> will return C<$out> only.

As with the I<deflate> function in I<zlib>, it is not necessarily the case that any output will be produced by this method. So don't rely on the fact that C<$out> is empty for an error test.

=head2 B<($out, $status) = $d-E<gt>flush()>  
=head2 B<($out, $status) = $d-E<gt>flush($flush_type)>

Typically used to finish the deflation. Any pending output will be returned via C<$out>. C<$status> will have a value C<Z_OK> if successful.

In a scalar context C<flush> will return C<$out> only.

Note that flushing can seriously degrade the compression ratio, so it
should only be used to terminate a decompression (using \texttt{Z_FINISH}) or when you want to create a full flush point (using \texttt{Z_FULL_FLUSH}).

By default the \texttt{flush_type} used is \texttt{Z_FINISH}. Other valid values for \texttt{flush_type} are \texttt{Z_NO_FLUSH}, \texttt{Z_PARTIAL_FLUSH}, \texttt{Z_SYNC_FLUSH} and \texttt{Z_FULL_FLUSH}. It is strongly recommended that you only set the \texttt{flush_type} parameter if you fully understand the implications of what it does. See the zlib documentation for details.

\begin{verbatim}
=head2 \$status = $d->deflateParams([OPT])

Change settings for the deflate stream $d.

The list of the valid options is shown below. Options not specified will remain unchanged.

=over 5

=item \texttt{-Level}

Defines the compression level. Valid values are 0 through 9, \texttt{Z_NO_COMPRESSION}, \texttt{Z_BEST_SPEED}, \texttt{Z_BEST_COMPRESSION}, and \texttt{Z_DEFAULT_COMPRESSION}.

=item \texttt{-Strategy}

Defines the strategy used to tune the compression. The valid values are \texttt{Z_DEFAULT_STRATEGY}, \texttt{Z_FILTERED} and \texttt{Z_HUFFMAN_ONLY}.

=back

=head2 \$d->dict_adler()  

Returns the adler32 value for the dictionary.

=head2 \$d->msg()  

Returns the last error message generated by zlib.

=head2 \$d->total_in()  

Returns the total number of bytes uncompressed bytes input to deflate.

=head2 \$d->total_out()  

Returns the total number of compressed bytes output from deflate.

=head2 Example

\end{verbatim}
Here is a trivial example of using C<deflate>. It simply reads standard input, deflates it and writes it to standard output.

```perl
use strict;
use warnings;

use Compress::Zlib;

binmode STDIN;
binmode STDOUT;
my $x = deflateInit() 
or die "Cannot create a deflation stream\n" ;

my ($output, $status) ;
while (<>)
{
    ($output, $status) = $x->deflate($_) ;
    $status == Z_OK 
or die "deflation failed\n" ;

    print $output ;
}

($output, $status) = $x->flush() ;

$status == Z_OK 
or die "deflation failed\n" ;

print $output ;
```

=head1 Inflate Interface

This section defines the interface available that allows in-memory uncompression using the I<deflate> interface provided by zlib.

Here is a definition of the interface:

=head2 B<$i, $status> = inflateInit()>

Initialises an inflation stream.

In a list context it returns the inflation stream, C<$i>, and the I<zlib> status code in C<$status>. In a scalar context it returns the inflation stream only.

If successful, C<$i> will hold the inflation stream and C<$status> will
be C<Z_OK>.

If not successful, C<$i> will be I<undef> and C<$status> will hold the I<zlib> error code.

The function optionally takes a number of named options specified as C<< -Name=>value >> pairs. This allows individual options to be tailored without having to specify them all in the parameter list.

For backward compatibility, it is also possible to pass the parameters as a reference to a hash containing the name=>value pairs.

The function takes one optional parameter, a reference to a hash. The contents of the hash allow the deflation interface to be tailored.

Here is a list of the valid options:

=over 5
=item B<-WindowBits>

To uncompress an RFC 1950 data stream, set C<WindowBits> to a positive number.

To uncompress an RFC 1951 data stream, set C<WindowBits> to C<-MAX_WBITS>.

For a full definition of the meaning and valid values for C<WindowBits> refer to the I<zlib> documentation for I<inflateInit2>.

Defaults to MAX_WBITS.

=item B<-Bufsize>

Sets the initial size for the inflation buffer. If the buffer has to be reallocated to increase the size, it will grow in increments of C<Bufsize>.

Default is 4096.

=item B<-Dictionary>

The default is no dictionary.

=back

Here is an example of using the C<inflateInit> optional parameter to override the default buffer size.

    inflateInit( -Bufsize => 300 ) ;
Inflates the complete contents of \texttt{C<$buffer$>}. The buffer can either be a scalar or a scalar reference.

Returns \texttt{C<Z_OK>} if successful and \texttt{C<Z_STREAM_END>} if the end of the compressed data has been successfully reached. If not successful, \texttt{C<$out$>} will be \texttt{I<undef>} and \texttt{C<$status$>} will hold the I<zlib> error code.

The \texttt{C<$buffer$>} parameter is modified by \texttt{C<inflate>}. On completion it will contain what remains of the input buffer after inflation. This means that \texttt{C<$buffer$>} will be an empty string when the return status is \texttt{C<Z_OK>}. When the return status is \texttt{C<Z_STREAM_END>} the \texttt{C<$buffer$>} parameter will contain what (if anything) was stored in the input buffer after the deflated data stream.

This feature is useful when processing a file format that encapsulates a compressed data stream (e.g. gzip, zip).

Scans \texttt{C<$buffer$>} until it reaches either a I<full flush point> or the end of the buffer.

If a I<full flush point> is found, \texttt{C<Z_OK>} is returned and \texttt{C<$buffer$>} will be have all data up to the flush point removed. This can then be passed to the \texttt{C<deflate>} method.

Any other return code means that a flush point was not found. If more data is available, \texttt{C<inflateSync>} can be called repeatedly with more compressed data until the flush point is found.

Returns the adler32 value for the dictionary.

Returns the last error message generated by zlib.

Returns the total number of bytes compressed bytes input to inflate.
Returns the total number of uncompressed bytes output from inflate.

=head2 Example

Here is an example of using C<inflate>.

```perl
use strict;
use warnings;

use Compress::Zlib;

my $x = inflateInit()
    or die "Cannot create a inflation stream\n";

my $input = "";
binmode STDIN;
binmode STDOUT;

my ($output, $status);
while (read(STDIN, $input, 4096))
{
    ($output, $status) = $x->inflate($input);

    print $output
        if $status == Z_OK or $status == Z_STREAM_END;

    last if $status != Z_OK;
}

die "inflation failed\n" unless $status == Z_STREAM_END;
```

=head1 CHECKSUM FUNCTIONS

Two functions are provided by I<zlib> to calculate checksums. For the Perl interface, the order of the two parameters in both functions has been reversed. This allows both running checksums and one off calculations to be done.

```perl
$crc = adler32($buffer [,.$crc]) ;
$crc = crc32($buffer [,.$crc]) ;
```

The buffer parameters can either be a scalar or a scalar reference.

If the $crc parameters is C<undef>, the crc value will be reset.

If you have built this module with zlib 1.2.3 or better, two more CRC-related functions are available.
$crc = adler32_combine($crc1, $crc2, $len2)
$crc = crc32_combine($adler1, $adler2, $len2)

These functions allow checksums to be merged.

=head1 Misc

=head2 my $version = Compress::Zlib::zlib_version();

Returns the version of the zlib library.

=head1 CONSTANTS

All the <zlib> constants are automatically imported when you make use of <Compress::Zlib>.

=head1 SEE ALSO

L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>, L<IO::Uncompress::Inflate>,
L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
F<http://www.faqs.org/rfcs/rfc1950.html>,
F<http://www.faqs.org/rfcs/rfc1951.html> and

The <zlib> compression library was written by Jean-loup Gailly
F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>.

The primary site for the <zlib> compression library is

The primary site for gzip is F<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.
MODIFICATION HISTORY

See the Changes file.

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Found in path(s):
No license file was found, but licenses were detected in source scan.

NAME

IO::Compress::Bzip2 - Write bzip2 files/buffers

SYNOPSIS

use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error) ;

my $status = bzip2 $input => $output [,OPTS]
     or die "bzip2 failed: $Bzip2Error\n";

my $z = new IO::Compress::Bzip2 $output [,OPTS]
     or die "bzip2 failed: $Bzip2Error\n";

$z->print($string);
$z->printf($format, $string);
$z->write($string);
$z->syswrite($string [, $length, $offset]);
$z->flush();
$z->tell();
$z->eof();
$z->seek($position, $whence);
$z->binmode();
$z->fileno();
$z->opened();
$z->autoflush();
$z->input_line_number();
$z->newStream( [OPTS] );
This module provides a Perl interface that allows writing bzip2 compressed data to files or buffer.

For reading bzip2 files/buffers, see the companion module L<IO::Uncompress::Bunzip2|IO::Uncompress::Bunzip2>.

=head1 Functional Interface

A top-level function, C<bzip2>, is provided to carry out "one-shot" compression between buffers and/or files. For finer control over the compression process, see the L</"OO Interface"> section.

use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error) ;

bzip2 $input => $output [,OPTS]
    or die "bzip2 failed: $Bzip2Error\n";

The functional interface needs Perl5.005 or better.

=head2 bzip2 $input => $output [, OPTS]

C<bzip2> expects at least two parameters, C<$input> and C<$output>.

=head3 The C<$input> parameter

The parameter, C<$input>, is used to define the source of the uncompressed data.

It can take one of the following forms:
If the $input parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

If the $input parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

If $input is a scalar reference, the input data will be read from $input.

If $input is an array reference, each element in the array must be a filename. The input data will be read from each file in turn. The complete array will be walked to ensure that it only contains valid filenames before any data is compressed.

If $input is a string that is delimited by the characters "<" and ">" "$input will assume that it is an input fileglob string. The input is the list of files that match the fileglob. If the fileglob does not match any files ...

See L<File::GlobMapper|File::GlobMapper> for more details.

If the $input parameter is any other type, $undef will be returned.

The parameter $output is used to control the destination of the compressed data. This parameter can take one of these forms.
If the C<$output> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

If the C<$output> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.

If C<$output> is a scalar reference, the compressed data will be stored in C<$$output>.

If C<$output> is an array reference, the compressed data will be pushed onto the array.

If C<$output> is a string that is delimited by the characters "<" and ">" C<bzip2> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output> is a fileglob string, C<$input> must also be a fileglob string. Anything else is an error.

If the C<$output> parameter is any other type, C<undef> will be returned.

When C<$input> maps to multiple files/buffers and C<$output> is a single file/buffer the input files/buffers will be stored in C<$output> as a concatenated series of compressed data streams.

Unless specified below, the optional parameters for C<bzip2>, C<OPTS>, are the same as those used with the OO interface defined in the
=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<bzip2> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<bzip2> has completed.

This parameter defaults to 0.

=item C<< BinModeIn => 0|1 >>

When reading from a file or filehandle, set C<binmode> before reading.

Defaults to 0.

=item C<< Append => 0|1 >>

TODO

=back

=head2 Examples

To read the contents of the file C<file1.txt> and write the compressed data to the file C<file1.txt.bz2>.

    use strict;
    use warnings;
    use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error);

    my $input = "file1.txt";
    bzip2 $input => "$input.bz2"
    or die "bzip2 failed: $Bzip2Error\n";

To read from an existing Perl filehandle, C<$input>, and write the compressed data to a buffer, C<$buffer>.

    use strict;
    use warnings;
    use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error);
    use IO::File ;
my $input = new IO::File "<file1.txt"
    or die "Cannot open 'file1.txt': $!\n";
my $buffer ;
bzip2 $input => $buffer
    or die "bzip2 failed: $Bzip2Error\n";

To compress all files in the directory "/my/home" that match "*.txt"
and store the compressed data in the same directory

use strict ;
use warnings ;
use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error) ;

bzip2 '</my/home/*.txt>' => '<*.bz2>'
    or die "bzip2 failed: $Bzip2Error\n";

and if you want to compress each file one at a time, this will do the trick

use strict ;
use warnings ;
use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error) ;

for my $input ( glob "/my/home/*.txt" )
{
    my $output = "$input.bz2" ;
bzip2 $input => $output
        or die "Error compressing '$input': $Bzip2Error\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for C<IO::Compress::Bzip2> is shown below

my $z = new IO::Compress::Bzip2 $output [,OPTS]
    or die "IO::Compress::Bzip2 failed: $Bzip2Error\n";

It returns an C<IO::Compress::Bzip2> object on success and undef on failure.
The variable C<$Bzip2Error> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Compress::Bzip2 can be used exactly like an L<IO::File|IO::File> filehandle.
This means that all normal output file operations can be carried out
with C<$z>.
For example, to write to a compressed file/buffer you can use either of
these forms
$z->{print("hello world\n")};
print $z "hello world\n";

The mandatory parameter $output is used to control the destination of the compressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the $output parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the $output parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If $output is a scalar reference, the compressed data will be stored in $$output.

=back

If the $output parameter is any other type, IO::Compress::Bzip2::new will return undef.

=head2 Constructor Options

$OPTS is any combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the $output parameter is a filehandle. If specified, and the value is true, it will result in the $output being closed once either the close method is called or the IO::Compress::Bzip2 object is destroyed.

This parameter defaults to 0.

=item C<< Append => 0|1 >>

Opens $output in append mode.
The behaviour of this option is dependent on the type of \texttt{Output}.

\item \textbf{A Buffer}

If \texttt{Output} is a buffer and \texttt{Append} is enabled, all compressed data will beAppend to the end if \texttt{Output}. Otherwise \texttt{Output} will be cleared before any data is written to it.

\item \textbf{A Filename}

If \texttt{Output} is a filename and \texttt{Append} is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

\item \textbf{A Filehandle}

If \texttt{Output} is a filehandle, the file pointer will be positioned to the end of the file via a call to \texttt{seek} before any compressed data is written to it. Otherwise the file pointer will not be moved.

This parameter defaults to 0.

\item \textbf{BlockSize\(100\text{K} \Rightarrow \text{number}\)}

Specify the number of \(100\text{K}\) blocks \texttt{bzip2} uses during compression.

Valid values are from 1 to 9, where 9 is best compression.

The default is 1.

\item \textbf{WorkFactor \(\Rightarrow \text{number}\)}

Specifies how much effort \texttt{bzip2} should take before resorting to a slower fallback compression algorithm.

Valid values range from 0 to 250, where 0 means use the default value 30.

The default is 0.

\item \textbf{Strict \(0|1\)}

This is a placeholder option.

---

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=head2 Examples

TODO

=head2 print

Usage is

$z->print($data)
print $z $data

Compresses and outputs the contents of the C<$data> parameter. This has the same behaviour as the C<print> built-in.

Returns true if successful.

=head2 printf

Usage is

$z->printf($format, $data)
printf $z $format, $data

Compresses and outputs the contents of the C<$data> parameter.

Returns true if successful.

=head2 syswrite

Usage is

$z->syswrite $data
$z->syswrite $data, $length
$z->syswrite $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 write

Usage is
$z->write $data
$z->write $data, $length
$z->write $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 flush

Usage is

$z->flush;

Flushes any pending compressed data to the output file/buffer.

TODO

Returns true on success.

=head2 tell

Usage is

$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the C<close> method has been called.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction
that it is only legal to seek forward in the output file/buffer.
It is a fatal error to attempt to seek backward.
Empty parts of the file/buffer will have NULL (0x00) bytes written to them.

The C<$whence$> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

    $z->binmode
    binmode $z ;

This is a noop provided for completeness.

=head2 opened

    $z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

    my $prev = $z->autoflush()
    my $prev = $z->autoflush(EXPR)

If the C<$z$> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z$> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|= cannot be used to set or retrieve the autoflush setting.

=head2 input_line_number

    $z->input_line_number()
    $z->input_line_number(EXPR)

This method always returns C<undef> when compressing.

=head2 fileno

    $z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close();
close $z;

Flushes any pending compressed data and then closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Compress::Bzip2 object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Compress::Bzip2 object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 newStream([OPTS])

Usage is

$z->newStream( [OPTS] )

Closes the current compressed data stream and starts a new one.

OPTS consists of any of the the options that are available when creating the C<$z> object.

See the L</"Constructor Options"> section for more details.
No symbolic constants are required by this IO::Compress::Bzip2 at present.

=item :all

Imports C<bzip2> and C<$Bzip2Error>.
Same as doing this

use IO::Compress::Bzip2 qw(bzip2 $Bzip2Error) ;

=head1 EXAMPLES

=head2 Apache::GZip Revisited

See L<IO::Compress::Bzip2::FAQ|IO::Compress::Bzip2::FAQ/'Apache::GZip Revisited'>

=head2 Working with Net::FTP

See L<IO::Compress::Bzip2::FAQ|IO::Compress::Bzip2::FAQ/'Compressed files and Net::FTP'>

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<Compress::Zlib::FAQ|Compress::Zlib::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

The primary site for the bzip2 program is F<http://www.bzip.org>.

See the module L<Compress::Bzip2|Compress::Bzip2>

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.
MODIFICATION HISTORY

See the Changes file.

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This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

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EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

0 all tests successful
255 test died
any other number how many failed (including missing or extras)

If you fail more than 254 tests, it will be reported as 254.

B<NOTE> This behavior may go away in future versions.

CAVEATS and NOTES

Backwards compatibility
Test::More works with Perls as old as 5.004_05.

=item Overloaded objects

String overloaded objects are compared as strings. This prevents Test::More from piercing an object's interface allowing better blackbox testing. So if a function starts returning overloaded objects instead of bare strings your tests won't notice the difference. This is good.

However, it does mean that functions like is_deeply() cannot be used to test the internals of string overloaded objects. In this case I would suggest Test::Deep which contains more flexible testing functions for complex data structures.

=item Threads

Test::More will only be aware of threads if "use threads" has been done I<before> Test::More is loaded. This is ok:

    use threads;
    use Test::More;

This may cause problems:

    use Test::More
    use threads;

=item Test::Harness upgrade

no_plan and todo depend on new Test::Harness features and fixes. If you're going to distribute tests that use no_plan or todo your end-users will have to upgrade Test::Harness to the latest one on CPAN. If you avoid no_plan and TODO tests, the stock Test::Harness will work fine.

Installing Test::More should also upgrade Test::Harness.

=back

=head1 HISTORY

This is a case of convergent evolution with Joshua Pritikin's Test module. I was largely unaware of its existence when I'd first written my own ok() routines. This module exists because I can't
figure out how to easily wedge test names into Test's interface (along
with a few other problems).

The goal here is to have a testing utility that's simple to learn,
quick to use and difficult to trip yourself up with while still
providing more flexibility than the existing Test.pm. As such, the
names of the most common routines are kept tiny, special cases and
magic side-effects are kept to a minimum. WYSIWYG.

=head1 SEE ALSO

L<Test::Simple> if all this confuses you and you just want to write
some tests. You can upgrade to Test::More later (it's forward
compatible).

L<Test> is the old testing module. Its main benefit is that it has
been distributed with Perl since 5.004_05.

L<Test::Harness> for details on how your test results are interpreted
by Perl.

L<Test::Differences> for more ways to test complex data structures.
And it plays well with Test::More.

L<Test::Class> is like XUnit but more perlish.

L<Test::Deep> gives you more powerful complex data structure testing.

L<Test::Unit> is XUnit style testing.

L<Test::Inline> shows the idea of embedded testing.

L<Bundle::Test> installs a whole bunch of useful test modules.

=head1 AUTHORS

Michael G Schwern E<lt>schwern@pobox.comE<gt> with much inspiration
from Joshua Pritikin's Test module and lots of help from Barrie
Slaymaker, Tony Bowden, blackstar.co.uk, chromatic, Fergal Daly and
the perl-qa gang.

=head1 BUGS

See F<http://rt.cpan.org> to report and view bugs.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

See <http://www.perl.com/perl/misc/Artistic.html>

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abstract: 'IO Interface to compressed data files/buffers'

build_requires:
  ExtUtils::MakeMaker: 0

configure_requires:
  ExtUtils::MakeMaker: 0

dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'

license: perl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4

name: IO-Compress

no_index:

directory:
  - t
  - inc
  - t
  - private

requires:
  Compress::Raw::Bzip2: 2.061
  Compress::Raw::Zlib: 2.061
  Scalar::Util: 0

version: 2.061

Found in path(s):
No license file was found, but licenses were detected in source scan.

License:        GPL+ or Artistic

Found in path(s):
* /opt/cola/permits/1221036760_1635411574.98/0/perl-IO-Compress-2.061-2.el7-1.src.rpm-cosi-expand-archive-BdxFMaWM/perl-IO-Compress.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Uncompress::AnyInflate - Uncompress zlib-based (zip, gzip) file/buffer

=head1 SYNOPSIS

use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError) ;

my $status = anyinflate $input => $output [,OPTS]
   or die "anyinflate failed: $AnyInflateError\n";

my $z = new IO::Uncompress::AnyInflate $input [OPTS]
   or die "anyinflate failed: $AnyInflateError\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
$char = $z->opened()

$status = $z->inflateSync()

$data = $z->trailingData()
$status = $z->nextStream()
$data = $z->getHeaderInfo()
$z->tell()
$z->seek($position, $whence)
$z->binmode()
$z->fileno()
$z->eof()
$z->close()

$AnyInflateError ;

# IO::File mode

<$z>
read($z, $buffer);
read($z, $buffer, $length);
read($z, $buffer, $length, $offset);
tell($z)
seek($z, $position, $whence)
binmode($z)
fileno($z)
eof($z)
close($z)

=head1 DESCRIPTION

This module provides a Perl interface that allows the reading of files/buffers that have been compressed in a number of formats that use the zlib compression library.

The formats supported are

=over 5
=item RFC 1950
=item RFC 1951 (optionally)
=item gzip (RFC 1952)
=item zip
=back

The module will auto-detect which, if any, of the supported compression formats is being used.

=head1 Functional Interface

A top-level function, C<anyinflate>, is provided to carry out "one-shot" uncompression between buffers and/or files. For finer control over the uncompression process, see the L</"OO Interface"> section.

use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError) ;

anyinflate $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "anyinflate failed: $AnyInflateError\n";

The functional interface needs Perl5.005 or better.
C<anyinflate> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the compressed data.

It can take one of the following forms:

=over 5

=item A filename

If the <$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<anyinflate> will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.
If the \texttt{\$input\_filename\_or\_reference} parameter is any other type, \texttt{\$undef} will be returned.

\section*{The \texttt{\$output\_filename\_or\_reference} parameter}

The parameter \texttt{\$output\_filename\_or\_reference} is used to control the destination of the uncompressed data. This parameter can take one of these forms.

\item A filename

If the \texttt{\$output\_filename\_or\_reference} parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.

\item A filehandle

If the \texttt{\$output\_filename\_or\_reference} parameter is a filehandle, the uncompressed data will be written to it. The string "." can be used as an alias for standard output.

\item A scalar reference

If \texttt{\$output\_filename\_or\_reference} is a scalar reference, the uncompressed data will be stored in \texttt{\$\$output\_filename\_or\_reference}.

\item An Array Reference

If \texttt{\$output\_filename\_or\_reference} is an array reference, the uncompressed data will be pushed onto the array.

\item An Output FileGlob

If \texttt{\$output\_filename\_or\_reference} is a string that is delimited by the characters "<" and ">" \texttt{\$any\_inflate} will assume that it is an I\texttt{output fileglob string}. The output is the list of files that match the fileglob.

When \texttt{\$output\_filename\_or\_reference} is a fileglob string, \texttt{\$input\_filename\_or\_reference} must also be a fileglob string. Anything else is an error.

See \texttt{\$File::GlobMapper\::File::GlobMapper} for more details.
If the `$output_filename_or_reference` parameter is any other type, `undef` will be returned.

=head2 Notes

When `$input_filename_or_reference` maps to multiple compressed files/buffers and `$output_filename_or_reference` is a single file/buffer, after uncompression `$output_filename_or_reference` will contain a concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters

Unless specified below, the optional parameters for `$anyinflate`, `$OPTS`, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=over 5
=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to `$anyinflate` that are filehandles.

If `$AutoClose` is specified, and the value is true, it will result in all input and/or output filehandles being closed once `$anyinflate` has completed.

This parameter defaults to 0.

=item C<< BinModeOut => 0|1 >>

When writing to a file or filehandle, set `binmode` before writing to the file.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5
=item * A Buffer
If \texttt{C<Append>} is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.

\texttt{Filename}

If \texttt{C<Append>} is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.

\texttt{Filehandle}

If \texttt{C<Append>} is enabled, the filehandle will be positioned to the end of the file via a call to \texttt{C<seek>} before any uncompressed data is written to it. Otherwise the file pointer will not be moved.

When \texttt{C<Append>} is specified, and set to true, it will \texttt{I<append>} all uncompressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.

Conversely when \texttt{C<Append>} is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

\texttt{MultiStream => 0|1} 

If the input file/buffer contains multiple compressed data streams, this option will uncompress the whole lot as a single data stream.

Defaults to 0.

\texttt{TrailingData => $scalar}

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.
This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressed, you can avoid having to use C<trailingData> by setting the C<InputLength> option.

=back

=head2 Examples

To read the contents of the file C<file1.txt.Compressed> and write the uncompressed data to the file C<file1.txt>.

    use strict ;
    use warnings ;
    use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError) ;

    my $input = "file1.txt.Compressed"
    my $output = "file1.txt"
    anyinflate $input => $output
    or die "anyinflate failed: $AnyInflateError\n"

To read from an existing Perl filehandle, C<$input>, and write the uncompressed data to a buffer, C<$buffer>.

    use strict ;
    use warnings ;
    use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError) ;
    use IO::File ;

    my $input = new IO::File "<file1.txt.Compressed"
    # or die "Cannot open 'file1.txt.Compressed': $!\n"
    my $buffer ;
    anyinflate $input => \$buffer
    # or die "anyinflate failed: $AnyInflateError\n";
To uncompress all files in the directory "/my/home" that match "*.txt.Compressed" and store the compressed data in the same directory

```perl
use strict ;
use warnings ;
use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError) ;

anyinflate '</my/home/*.txt.Compressed>' => '</my/home/#1.txt>'
    or die "anyinflate failed: $AnyInflateError\n";
```

and if you want to compress each file one at a time, this will do the trick

```perl
use strict ;
use warnings ;
use IO::Uncompress::AnyInflate qw(anyinflate $AnyInflateError) ;

for my $input ( glob "*/my/home/*.txt.Compressed" )
{
    my $output = $input;
    $output =~ s/.Compressed// ;
    anyinflate $input => $output
        or die "Error compressing '$input': $AnyInflateError\n";
}
```

=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::AnyInflate is shown below

```perl
my $z = new IO::Uncompress::AnyInflate $input [OPTS]
    or die "IO::Uncompress::AnyInflate failed: $AnyInflateError\n";
```

Returns an C<IO::Uncompress::AnyInflate> object on success and undef on failure. The variable C<$AnyInflateError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from IO::Uncompress::AnyInflate can be used exactly like an L<IO::File|IO::File> filehandle. This means that all normal input file operations can be carried out with C<$z>. For example, to read a line from a compressed file/buffer you can use either of these forms

```perl
$line = $z->getline();
$line = <$z>;
```

The mandatory parameter C<$input> is used to determine the source of the compressed data. This parameter can take one of three forms.
If the `$input` parameter is a scalar, it is assumed to be a filename. This file will be opened for reading and the compressed data will be read from it.

If the `$input` parameter is a filehandle, the compressed data will be read from it. The string `-'` can be used as an alias for standard input.

If `$input` is a scalar reference, the compressed data will be read from `$input`.

The option names defined below are case insensitive and can be optionally prefixed by a `-`. So all of the following are valid:

- `AutoClose => 0|1`  
- `autoclose`  
- `AUTOCLOSE`  
- `autoclose`  

`OPTS` is a combination of the following options:

This option is only valid when the `$input` parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the `close` method is called or the `IO::Uncompress::AnyInflate` object is destroyed.

This parameter defaults to 0.

Allows multiple concatenated compressed streams to be treated as a single compressed stream. Decompression will stop once either the end of the
file/buffer is reached, an error is encountered (premature eof, corrupt compressed data) or the end of a stream is not immediately followed by the start of another stream.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.

=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::AnyInflate will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.

This option defaults to off.
This option controls what the \texttt{read} method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the \texttt{read} method.

If set to 0, the contents of the output parameter of the \texttt{read} method will be overwritten by the uncompressed data.

Defaults to 0.

This option controls whether the extra checks defined below are used when carrying out the decompression. When \texttt{Strict} is on, the extra tests are carried out, when \texttt{Strict} is off they are not.

The default for this option is off.

If the input is an RFC 1950 data stream, the following will be checked:

=over 5

=item 1

The ADLER32 checksum field must be present.

=item 2

The value of the ADLER32 field read must match the adler32 value of the uncompressed data actually contained in the file.

=back

If the input is a gzip (RFC 1952) data stream, the following will be checked:

=over 5

=item 1

If the FHCRC bit is set in the gzip FLG header byte, the CRC16 bytes in the header must match the crc16 value of the gzip header actually read.

=item 2

If the gzip header contains a name field (FNAME) it consists solely of ISO
If the gzip header contains a comment field (FCOMMENT) it consists solely of ISO 8859-1 characters plus line-feed.

If the gzip FEXTRA header field is present it must conform to the sub-field structure as defined in RFC 1952.

The CRC32 and ISIZE trailer fields must be present.

The value of the CRC32 field read must match the crc32 value of the uncompressed data actually contained in the gzip file.

The value of the ISIZE fields read must match the length of the uncompressed data actually read from the file.

When auto-detecting the compressed format, try to test for raw-deflate (RFC 1951) content using the C<IO::Uncompress::RawInflate> module.

The reason this is not default behaviour is because RFC 1951 content can only be detected by attempting to uncompress it. This process is error prone and can result is false positives.

Defaults to 0.

If the gzip FEXTRA header field is present and this option is set, it will force the module to check that it conforms to the sub-field structure as defined in RFC 1952.

If the C<Strict> is on it will automatically enable this option.

Defaults to 0.
Usage is

$status = $z->read($buffer)

Reads a block of compressed data (the size the the compressed block is determined by the C<Buffer> option in the constructor), uncompresses it and writes any uncompressed data into C<$buffer>. If the C<Append> parameter is set in the constructor, the uncompressed data will be appended to the C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

Usage is

$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.

The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

Usage is

$line = $z->getline()
$line = <$z>

Reads a single line.

This method fully supports the use of the variable $/ (or
$INPUT_RECORD_SEPARATOR or $RS when English is in use) to
determine what constitutes an end of line. Paragraph mode, record mode and
file slurp mode are all supported.

=head2 getc

Usage is

$char = $z->getc()

Read a single character.

=head2 ungetc

Usage is

$char = $z->ungetc($string)

=head2 inflateSync

Usage is

$status = $z->inflateSync()

TODO

=head2 getHeaderInfo

Usage is

$hdr = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list
or hash references (in array context) that contains information about each
of the header fields in the compressed data stream(s).

=head2 tell

Usage is

$z->tell()
tell $z
Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the input file/buffer. It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide true random access to a compressed file/buffer. It works by uncompressing data from the current offset in the file/buffer until it reaches the uncompressed offset specified in the parameters to C<seek>. For very small files this may be acceptable behaviour. For large files it may cause an unacceptable delay.

The C<$whence> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.
=head2 autoflush

    my $prev = $z->autoflush()
    my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

    $z->input_line_number()
    $z->input_line_number(EXPR)

Returns the current uncompressed line number. If C<EXPR> is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of C<$/> are used to to determine what constitutes a line terminator.

=head2 fileno

    $z->fileno()
    fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

    $z->close() ;
    close $z ;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if
the IO::Uncompress::AnyInflate object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Uncompress::AnyInflate object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

    my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and C<$> will be reset to 0.

Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.

=head2 trailingData

Usage is

    my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.
If the input is a filehandle, $trailingData will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using $trailingData if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use $trailingData by setting the $InputLength option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::AnyInflate at present.

=over 5
=item :all

Imports $anyinflate and $AnyInflateError.
Same as doing this

use IO::Uncompress::AnyInflate qw($anyinflate $AnyInflateError);

=back

=head1 EXAMPLES

=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP”>

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>, L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>, L<Archive::Tar|Archive::Tar>, L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
The I<zlib> compression library was written by Jean-loup Gailly F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>. The primary site for the I<zlib> compression library is F<http://www.zlib.org>. The primary site for gzip is F<http://www.gzip.org>. 

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>. 

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2013 Paul Marquess. All rights reserved.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):

No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Compress::Gzip - Write RFC 1952 files/buffers

=head1 SYNOPSIS

use IO::Compress::Gzip qw(gzip $GzipError) ;

my $status = gzip $input => $output [,OPTS] 
or die "gzip failed: $GzipError\n";

my $z = new IO::Compress::Gzip $output [,OPTS] 
or die "gzip failed: $GzipError\n";
This module provides a Perl interface that allows writing compressed data to files or buffer as defined in RFC 1952.

All the gzip headers defined in RFC 1952 can be created using this module.

For reading RFC 1952 files/buffers, see the companion module L<IO::Uncompress::Gunzip|IO::Uncompress::Gunzip>.
"one-shot" compression between buffers and/or files. For finer control over the compression process, see the L</"OO Interface”> section.

use IO::Compress::Gzip qw(gzip $GzipError) ;

gzip $input_filename_or_reference => $output_filename_or_reference [,OPTS]
or die "gzip failed: $GzipError\n";

The functional interface needs Perl5.005 or better.

=head2 gzip $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<gzip> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the uncompressed data.

It can take one of the following forms:

=over 5

=item A filename

If the <$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.
The complete array will be walked to ensure that it only contains valid filenames before any data is compressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<gzip> will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

In addition, if C<$input_filename_or_reference> is a simple filename, the default values for the C<Name> and C<Time> options will be sourced from that file.

If you do not want to use these defaults they can be overridden by explicitly setting the C<Name> and C<Time> options or by setting the C<Minimal> parameter.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the destination of the compressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference
If `$output_filename_or_reference` is a scalar reference, the compressed data will be stored in `$output_filename_or_reference`.

=item An Array Reference

If `$output_filename_or_reference` is an array reference, the compressed data will be pushed onto the array.

=item An Output FileGlob

If `$output_filename_or_reference` is a string that is delimited by the characters "<" and ">" `gzip` will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When `$output_filename_or_reference` is an fileglob string, `$input_filename_or_reference` must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the `$output_filename_or_reference` parameter is any other type, `undef` will be returned.

=head2 Notes

When `$input_filename_or_reference` maps to multiple files/buffers and `$output_filename_or_reference` is a single file/buffer the input files/buffers will be stored in `$output_filename_or_reference` as a concatenated series of compressed data streams.

=head2 Optional Parameters

Unless specified below, the optional parameters for `gzip`, `OPTS`, are the same as those used with the OO interface defined in the L<"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to `gzip` that are filehandles.

If `AutoClose` is specified, and the value is true, it will result in all input and/or output filehandles being closed once `gzip` has
completed.

This parameter defaults to 0.

=item C<< BinModeIn => 0|1 >>

When reading from a file or filehandle, set C<binmode> before reading.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If C<Append> is enabled, all compressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any compressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

When C<Append> is specified, and set to true, it will I<append> all compressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any compressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all compressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.
When the output is a filename, it will truncate the contents of the file before writing any compressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any compressed data is output.

Defaults to 0.

=head2 Examples

To read the contents of the file C<file1.txt> and write the compressed data to the file C<file1.txt.gz>.

    use strict ;
    use warnings ;
    use IO::Compress::Gzip qw(gzip $GzipError) ;

    my $input = "file1.txt";
    gzip $input => "$input.gz"
        or die "gzip failed: $GzipError\n";

To read from an existing Perl filehandle, C<$input>, and write the compressed data to a buffer, C<$buffer>.

    use strict ;
    use warnings ;
    use IO::Compress::Gzip qw(gzip $GzipError) ;
    use IO::File ;

    my $input = new IO::File "<file1.txt"
        or die "Cannot open 'file1.txt': $!\n" ;
    my $buffer ;
    gzip $input => $buffer
        or die "gzip failed: $GzipError\n";

To compress all files in the directory "~/my/home" that match "*.txt" and store the compressed data in the same directory

    use strict ;
    use warnings ;
    use IO::Compress::Gzip qw(gzip $GzipError) ;

    gzip '~/my/home/*.txt' => '/*.gz'
        or die "gzip failed: $GzipError\n";

    and if you want to compress each file one at a time, this will do the trick
use strict;
use warnings;
use IO::Compress::Gzip qw(gzip $GzipError);

for my $input ( glob "/my/home/*.txt" )
{
    my $output = "$input.gz";
    gzip $input => $output
        or die "Error compressing '$input': $GzipError\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for C<IO::Compress::Gzip> is shown below

my $z = new IO::Compress::Gzip $output [,OPTS]
    or die "IO::Compress::Gzip failed: $GzipError\n";

It returns an C<IO::Compress::Gzip> object on success and undef on failure.
The variable C<$GzipError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Compress::Gzip can be used exactly like an L<IO::File|IO::File> filehandle.
This means that all normal output file operations can be carried out
with C<$z>.
For example, to write to a compressed file/buffer you can use either of
these forms

$z->print("hello world\n");
print $z "hello world\n";

The mandatory parameter C<$output> is used to control the destination
of the compressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output> parameter is a simple scalar, it is assumed to be a
filename. This file will be opened for writing and the compressed data
will be written to it.

=item A filehandle

If the C<$output> parameter is a filehandle, the compressed data will be
written to it.
The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output> is a scalar reference, the compressed data will be stored in C<$output>.

=back

If the C<$output> parameter is any other type, C<IO::Compress::Gzip>::new will return undef.

=head2 Constructor Options

C<OPTS> is any combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$output> parameter is a filehandle. If specified, and the value is true, it will result in the C<$output> being closed once either the C<close> method is called or the C<IO::Compress::Gzip> object is destroyed.

This parameter defaults to 0.

=item C<< Append => 0|1 >>

Opens C<$output> in append mode.

The behaviour of this option is dependent on the type of C<$output>.

=over 5

=item * A Buffer

If C<$output> is a buffer and C<Append> is enabled, all compressed data will be append to the end of C<$output>. Otherwise C<$output> will be cleared before any data is written to it.

=item * A Filename

If C<$output> is a filename and C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle
If C<$output> is a filehandle, the file pointer will be positioned to the
end of the file via a call to C<seek> before any compressed data is written
to it. Otherwise the file pointer will not be moved.

=back

This parameter defaults to 0.

=item C<< Merge => 0|1 >>

This option is used to compress input data and append it to an existing
compressed data stream in C<$output>. The end result is a single compressed
data stream stored in C<$output>.

It is a fatal error to attempt to use this option when C<$output> is not an
RFC 1952 data stream.

There are a number of other limitations with the C< Merge > option:

=over 5

=item 1

This module needs to have been built with zlib 1.2.1 or better to work. A
fatal error will be thrown if C< Merge > is used with an older version of
zlib.

=item 2

If C<$output> is a file or a filehandle, it must be seekable.

=back

This parameter defaults to 0.

=item -Level

Defines the compression level used by zlib. The value should either be
a number between 0 and 9 (0 means no compression and 9 is maximum
compression), or one of the symbolic constants defined below.

Z_NO_COMPRESSION
Z_BEST_SPEED
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION

The default is Z_DEFAULT_COMPRESSION.
Note, these constants are not imported by C<IO::Compress::Gzip> by default.

use IO::Compress::Gzip qw(:strategy);
use IO::Compress::Gzip qw(:constants);
use IO::Compress::Gzip qw(:all);

=item -Strategy

Defines the strategy used to tune the compression. Use one of the symbolic constants defined below.

Z_FILTERED
Z_HUFFMAN_ONLY
Z_RLE
Z_FIXED
Z_DEFAULT_STRATEGY

The default is Z_DEFAULT_STRATEGY.

=item C<< Minimal => 0|1 >>

If specified, this option will force the creation of the smallest possible compliant gzip header (which is exactly 10 bytes long) as defined in RFC 1952.

See the section titled "Compliance" in RFC 1952 for a definition of the values used for the fields in the gzip header.

All other parameters that control the content of the gzip header will be ignored if this parameter is set to 1.

This parameter defaults to 0.

=item C<< Comment => $comment >>

Stores the contents of C<$comment> in the COMMENT field in the gzip header.
By default, no comment field is written to the gzip file.

If the C<-Strict> option is enabled, the comment can only consist of ISO 8859-1 characters plus line feed.

If the C<-Strict> option is disabled, the comment field can contain any character except NULL. If any null characters are present, the field will be truncated at the first NULL.

=item C<< Name => $string >>
Stores the contents of \$string in the gzip NAME header field. If \$string is not specified, no gzip NAME field will be created.

If the \$strict option is enabled, \$string can only consist of ISO 8859-1 characters.

If \$strict is disabled, then \$string can contain any character except NULL. If any null characters are present, the field will be truncated at the first NULL.

=item \<< Time => $number >>

Sets the MTIME field in the gzip header to $number.

This field defaults to the time the \IO::Compress::Gzip object was created if this option is not specified.

=item \<< TextFlag => 0|1 >>

This parameter controls the setting of the FLG.FTEXT bit in the gzip header. It is used to signal that the data stored in the gzip file/buffer is probably text.

The default is 0.

=item \<< HeaderCRC => 0|1 >>

When true this parameter will set the FLG.FHCRC bit to 1 in the gzip header and set the CRC16 header field to the CRC of the complete gzip header except the CRC16 field itself.

B\<Note\> that gzip files created with the \$HeaderCRC flag set to 1 cannot be read by most, if not all, of the the standard gunzip utilities, most notably gzip version 1.2.4. You should therefore avoid using this option if you want to maximize the portability of your gzip files.

This parameter defaults to 0.

=item \<< OS_Code => $value >>

Stores \$value in the gzip OS header field. A number between 0 and 255 is valid.

If not specified, this parameter defaults to the OS code of the Operating System this module was built on. The value 3 is used as a catch-all for all Unix variants and unknown Operating Systems.
This parameter allows additional metadata to be stored in the ExtraField in
the gzip header. An RFC 1952 compliant ExtraField consists of zero or more
subfields. Each subfield consists of a two byte header followed by the
subfield data.

The list of subfields can be supplied in any of the following formats

-ExtraField => [ $id1, $data1,
    $id2, $data2,
    ...
]
-ExtraField => [ [ $id1 => $data1],
    [ $id2 => $data2],
    ...
]
-ExtraField => { $id1 => $data1,
    $id2 => $data2,
    ...
}

Where C<$id1>, C<$id2> are two byte subfield ID's. The second byte of
the ID cannot be 0, unless the C<Strict> option has been disabled.

If you use the hash syntax, you have no control over the order in which
the ExtraSubFields are stored, plus you cannot have SubFields with
duplicate ID.

Alternatively the list of subfields can by supplied as a scalar, thus

-ExtraField => $rawdata

If you use the raw format, and the C<Strict> option is enabled,
C<IO::Compress::Gzip> will check that C<$rawdata> consists of zero or more
conformant sub-fields. When C<Strict> is disabled, C<$rawdata> can
consist of any arbitrary byte stream.

The maximum size of the Extra Field 65535 bytes.

Sets the XFL byte in the gzip header to C<$value>.

If this option is not present, the value stored in XFL field will be
determined by the setting of the C<Level> option.

If C<< Level => Z_BEST_SPEED >> has been specified then XFL is set to 2.
If 

\( C<\text{Level} = \text{Z}_\text{BEST_COMPRESSION} > > \) has been specified then XFL is set to 4.
Otherwise XFL is set to 0.

\[
\text{item } C<\text{Strict} = 0|1 > > 
\]

\( C<\text{Strict} > \) will optionally police the values supplied with other options
to ensure they are compliant with RFC1952.

This option is enabled by default.

If \( C<\text{Strict} > \) is enabled the following behaviour will be policed:

\[
\text{item } * 
\]

The value supplied with the \( C<\text{Name} > \) option can only contain ISO 8859-1 characters.

\[
\text{item } * 
\]

The value supplied with the \( C<\text{Comment} > \) option can only contain ISO 8859-1 characters plus line-feed.

\[
\text{item } * 
\]

The values supplied with the \( C<\text{-Name} > \) and \( C<\text{-Comment} > \) options cannot contain multiple embedded nulls.

\[
\text{item } * 
\]

If an \( C<\text{ExtraField} > \) option is specified and it is a simple scalar,
it must conform to the sub-field structure as defined in RFC 1952.

\[
\text{item } * 
\]

If an \( C<\text{ExtraField} > \) option is specified the second byte of the ID will be checked in each subfield to ensure that it does not contain the reserved value 0x00.

\[
\text{back} 
\]

When \( C<\text{Strict} > \) is disabled the following behaviour will be policed:

\[
\text{item } * 
\]
The value supplied with C<-Name> option can contain any character except NULL.

The value supplied with C<-Comment> option can contain any character except NULL.

The values supplied with the C<-Name> and C<-Comment> options can contain multiple embedded nulls. The string written to the gzip header will consist of the characters up to, but not including, the first embedded NULL.

If an C<ExtraField> option is specified and it is a simple scalar, the structure will not be checked. The only error is if the length is too big.

The ID header in an C<ExtraField> sub-field can consist of any two bytes.

Examples

todo

Methods

print

Usage is

$z->print($data)
  print $z->data

Compresses and outputs the contents of the C<$data> parameter. This has the same behaviour as the C<print> built-in.

Returns true if successful.
Usage is

$z->printf($format, $data)
printf $z $format, $data

Compresses and outputs the contents of the C<$data> parameter.

Returns true if successful.

=head2 syswrite

Usage is

$z->syswrite $data
$z->syswrite $data, $length
$z->syswrite $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 write

Usage is

$z->write $data
$z->write $data, $length
$z->write $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 flush

Usage is

$z->flush;
$z->flush($flush_type);

Flushes any pending compressed data to the output file/buffer.

This method takes an optional parameter, C<$flush_type>, that controls how the flushing will be carried out. By default the C<$flush_type> used is C<Z_FINISH>. Other valid values for C<$flush_type> are C<Z_NO_FLUSH>, C<Z_SYNC_FLUSH>, C<Z_FULL_FLUSH> and C<Z_BLOCK>. It is
strongly recommended that you only set the \texttt{flush_type} parameter if you fully understand the implications of what it does - overuse of \texttt{flush} can seriously degrade the level of compression achieved. See the \texttt{zlib} documentation for details.

Returns true on success.

\texttt{tell}

Usage is

\begin{verbatim}
$z->tell()
tell $z
\end{verbatim}

Returns the uncompressed file offset.

\texttt{eof}

Usage is

\begin{verbatim}
$z->eof();
eof($z);
\end{verbatim}

Returns true if the \texttt{close} method has been called.

\texttt{seek}

Usage is

\begin{verbatim}
$z->seek($position, $whence);
seek($z, $position, $whence);
\end{verbatim}

Provides a sub-set of the \texttt{seek} functionality, with the restriction that it is only legal to seek forward in the output file/buffer. It is a fatal error to attempt to seek backward.

Empty parts of the file/buffer will have NULL (0x00) bytes written to them.

The \texttt{$whence} parameter takes one the usual values, namely \texttt{SEEK_SET}, \texttt{SEEK_CUR} or \texttt{SEEK_END}.

Returns 1 on success, 0 on failure.

\texttt{binmode}

Usage is

\begin{verbatim}
$z->binmode
binmode $z;
\end{verbatim}
This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

This method always returns C<undef> when compressing.

=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close();
close $z ;
Flushes any pending compressed data and then closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Compress::Gzip object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Compress::Gzip object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 newStream([OPTS])

Usage is

    $z->newStream( [OPTS] )

Closes the current compressed data stream and starts a new one.

OPTS consists of any of the the options that are available when creating the C<$z> object.

See the L</"Constructor Options"> section for more details.

=head2 deflateParams

Usage is

    $z->deflateParams

TODO

=head1 Importing

A number of symbolic constants are required by some methods in C<IO::Compress::Gzip>. None are imported by default.

=over 5
=item :all

Imports C<$gzip>, C<$GzipError> and all symbolic constants that can be used by C<IO::Compress::Gzip>. Same as doing this

use IO::Compress::Gzip qw(gzip $GzipError :constants) ;

=item :constants

Import all symbolic constants. Same as doing this

use IO::Compress::Gzip qw(:flush :level :strategy) ;

=item :flush

These symbolic constants are used by the C<flush> method.

Z_NO_FLUSH
Z_PARTIAL_FLUSH
Z_SYNC_FLUSH
Z_FULL_FLUSH
Z_FINISH
Z_BLOCK

=item :level

These symbolic constants are used by the C<Level> option in the constructor.

Z_NO_COMPRESSION
Z_BEST_SPEED
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION

=item :strategy

These symbolic constants are used by the C<Strategy> option in the constructor.

Z_FILTERED
Z_HUFFMAN_ONLY
Z_RLE
Z_FIXED
Z_DEFAULT_STRATEGY

=back
=head1 EXAMPLES

=head2 Apache::GZip Revisited

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Apache::GZip Revisited">

=head2 Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/"Compressed files and Net::FTP">

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>, L<IO::Uncompress::Inflate>,
L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

For RFC 1950, 1951 and 1952 see
F<http://www.faqs.org/rfcs/rfc1950.html>,
F<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is F<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005-2013 Paul Marquess. All rights reserved.
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 EXIT CODES

If all your tests passed, Test::Builder will exit with zero (which is normal). If anything failed it will exit with how many failed. If you run less (or more) tests than you planned, the missing (or extras) will be considered failures. If no tests were ever run Test::Builder will throw a warning and exit with 255. If the test died, even after having successfully completed all its tests, it will still be considered a failure and will exit with 255.

So the exit codes are...

<table>
<thead>
<tr>
<th>Exit Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>all tests successful</td>
</tr>
<tr>
<td>255</td>
<td>test died</td>
</tr>
<tr>
<td>any other number</td>
<td>how many failed (including missing or extras)</td>
</tr>
</tbody>
</table>

If you fail more than 254 tests, it will be reported as 254.

=head1 THREADS

In perl 5.8.0 and later, Test::Builder is thread-safe. The test number is shared amongst all threads. This means if one thread sets the test number using current_test() they will all be effected.

Test::Builder is only thread-aware if threads.pm is loaded I<before> Test::Builder.

=head1 EXAMPLES

CPAN can provide the best examples. Test::Simple, Test::More, Test::Exception and Test::Differences all use Test::Builder.

=head1 SEE ALSO

Test::Simple, Test::More, Test::Harness

=head1 AUTHORS
=head1 COPYRIGHT

Copyright 2002, 2004 by chromatic <chromatic@wgz.org> and Michael G Schwern <schwern@pobox.com>.  

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

See http://www.perl.com/perl/misc/Artistic.html

=cut

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=head1 NAME

IO::Uncompress::Unzip - Read zip files/buffers

=head1 SYNOPSIS

use IO::Uncompress::Unzip qw(unzip $UnzipError) ;

my $status = unzip $input => $output [,OPTS]
  or die "unzip failed: $UnzipError\n";

my $z = new IO::Uncompress::Unzip $input [OPTS]
  or die "unzip failed: $UnzipError\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
$char = $z->opened()
$status = $z->inflateSync()
$data = $z->trailingData()
$status = $z->nextStream()
$data = $z->getHeaderInfo()
use IO::Uncompress::Unzip qw(unzip $UnzipError) ;

unzip $input_filename_or_reference => $output_filename_or_reference [,OPTS]
  or die "unzip failed: $UnzipError\n";

The functional interface needs Perl5.005 or better.

C<unzip> expects at least two parameters,
C<$input_filename_or_reference> and C<$output_filename_or_reference>.
The `$input_filename_or_reference` parameter

The parameter, `$input_filename_or_reference`, is used to define the source of the compressed data.

It can take one of the following forms:

item A filename

If the `$input_filename_or_reference` parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

item A filehandle

If the `$input_filename_or_reference` parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

item A scalar reference

If `$input_filename_or_reference` is a scalar reference, the input data will be read from `$input_filename_or_reference`.

item An array reference

If `$input_filename_or_reference` is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

item An Input FileGlob string

If `$input_filename_or_reference` is a string that is delimited by the characters "<" and ">" `$unzip` will assume that it is an input fileglob string. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

If the `$input_filename_or_reference` parameter is any other type,
C<undef> will be returned.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the destination of the uncompressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the uncompressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the uncompressed data will be stored in C<$$output_filename_or_reference>.

=item An Array Reference

If C<$output_filename_or_reference> is an array reference, the uncompressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<unzip> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is a fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$output_filename_or_reference> parameter is any other type,
C<undef> will be returned.

=head2 Notes

When C<$input_filename_or_reference> maps to multiple compressed files/buffers and C<$output_filename_or_reference> is a single file/buffer, after uncompression C<$output_filename_or_reference> will contain a concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<unzip>, C<OPTS>, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<unzip> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<unzip> has completed.

This parameter defaults to 0.

=item C<< BinModeOut => 0|1 >>

When writing to a file or filehandle, set C<binmode> before writing to the file.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If C<Append> is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.
=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.

=back

When C<Append> is specified, and set to true, it will I<append> all uncompressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

=item C<< MultiStream => 0|1 >>

If the input file/buffer contains multiple compressed data streams, this option will uncompress the whole lot as a single data stream.

Defaults to 0.

=item C<< TrailingData => $scalar >>

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.
If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option.

=head2 Examples

Say you have a zip file, C<file1.zip>, that only contains a single member, you can read it and write the uncompressed data to the file C<file1.txt> like this.

```perl
use strict;
use warnings;
use IO::Uncompress::Unzip qw(unzip $UnzipError);

my $input = "file1.zip";
my $output = "file1.txt";
unzip $input => $output
        or die "unzip failed: $UnzipError\n";
```

If you have a zip file that contains multiple members and want to read a specific member from the file, say C<"data1">, use the C<Name> option

```perl
use strict;
use warnings;
use IO::Uncompress::Unzip qw(unzip $UnzipError);

my $input = "file1.zip";
my $output = "file1.txt";
unzip $input => $output, Name => "data1"
        or die "unzip failed: $UnzipError\n";
```

Alternatively, if you want to read the C<"data1"> member into memory, use a scalar reference for the C<output> parameter.

```perl
use strict;
```
use warnings;
use IO::Uncompress::Unzip qw(unzip $UnzipError);

my $input = "file1.zip";
my $output;
unzip $input => \$output, Name => "data1"
    or die "unzip failed: $UnzipError\n";
# $output now contains the uncompressed data

To read from an existing Perl filehandle, C<$input>, and write the uncompressed data to a buffer, C<$buffer>.

use strict;
use warnings;
use IO::Uncompress::Unzip qw(unzip $UnzipError);
use IO::File;

my $input = new IO::File "<file1.zip"
    or die "Cannot open 'file1.zip': $!\n";
my $buffer;
unzip $input => \$buffer
    or die "unzip failed: $UnzipError\n";

=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::Unzip is shown below

my $z = new IO::Uncompress::Unzip $input [OPTS]
    or die "IO::Uncompress::Unzip failed: $UnzipError\n";

Returns an C<IO::Uncompress::Unzip> object on success and undef on failure. The variable C<$UnzipError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from IO::Uncompress::Unzip can be used exactly like an L<IO::File|IO::File> filehandle. This means that all normal input file operations can be carried out with C<$z>. For example, to read a line from a compressed file/buffer you can use either of these forms

$line = $z->getline();
$line = <$z>;

The mandatory parameter C<$input> is used to determine the source of the compressed data. This parameter can take one of three forms.
If the C<$input> parameter is a scalar, it is assumed to be a filename. This file will be opened for reading and the compressed data will be read from it.

If the C<$input> parameter is a filehandle, the compressed data will be read from it. The string '-' can be used as an alias for standard input.

If C<$input> is a scalar reference, the compressed data will be read from C<$$input>.

=head2 Constructor Options

The option names defined below are case insensitive and can be optionally prefixed by a '-'. So all of the following are valid:

- AutoClose
- autoclose
AUTOCLOSE
toclose

OPTS is a combination of the following options:

=over 5
=item C<< Name => "membername" >>>
Open "membername" from the zip file for reading.

=item C<< AutoClose => 0|1 >>>
This option is only valid when the C<$input> parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the C<close> method is called or the IO::Uncompress::Unzip object is destroyed.
This parameter defaults to 0.

=item C<< MultiStream => 0|1 >>
Treats the complete zip file/buffer as a single compressed data stream. When reading in multi-stream mode each member of the zip file/buffer will be uncompressed in turn until the end of the file/buffer is encountered.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.

=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::Unzip will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.
This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method will be overwritten by the uncompressed data.

Defaults to 0.

=item C<< Strict => 0|1 >>

This option controls whether the extra checks defined below are used when carrying out the decompression. When Strict is on, the extra tests are carried out, when Strict is off they are not.

The default for this option is off.

=back

=head2 Examples

TODO

=head1 Methods

=head2 read

Usage is

$status = $z->read($buffer)

Reads a block of compressed data (the size the the compressed block is determined by the C<Buffer> option in the constructor), uncompresses it and writes any uncompressed data into C<$buffer>. If the C<Append> parameter is set in the constructor, the uncompressed data will be appended to the C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 read

Usage is
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)

$status = read($z, $buffer, $length)
$status = read($z, $buffer, $length, $offset)

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.

The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 getline

Usage is

   $line = $z->getline()
   $line = <$z>

Reads a single line.

This method fully supports the use of of the variable C<$/> (or C<$INPUT_RECORD_SEPARATOR> or C<$RS> when C<English> is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

   $char = $z->getc()

Read a single character.

=head2 ungetc

Usage is

   $char = $z->ungetc($string)

=head2 inflateSync

Usage is
$status = $z->inflateSync()

TODO

=head2 getHeaderInfo

Usage is

$hdr = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list or hash references (in array context) that contains information about each of the header fields in the compressed data stream(s).

=head2 tell

Usage is

$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the input file/buffer. It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide true random access to a compressed file/buffer. It works by uncompressing data from the current offset in the file/buffer until it reaches the uncompressed offset specified in the parameters to C<seek>. For very small files this may be acceptable behaviour. For large files it may cause an
The $whence$ parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
    binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

    my $prev = $z->autoflush()
    my $prev = $z->autoflush(EXPR)

If the $z object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If $EXPR is present, and is non-zero, it will enable flushing after every write/print operation.

If $z is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$>|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
    $z->input_line_number(EXPR)

Returns the current uncompressed line number. If C<EXPR> is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of C<$/> are used to to determine what constitutes a line
terminator.

=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close() ;
close $z ;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Uncompress::Unzip object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Uncompress::Unzip object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and C<$> will be reset to 0.
Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.

=head2 trailingData

Usage is

my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressed, you can avoid having to use C<trailingData> by setting the C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::Unzip at present.

=over 5

=item :all

Imports C<unzip> and C<$UnzipError>.
Same as doing this

use IO::Uncompress::Unzip qw(unzip $UnzipError) ;

=back
EXAMPLES

Working with Net::FTP

See L<IO::Compress::FAQ|IO::Compress::FAQ/Compressed files and Net::FTP/>

Walking through a zip file

The code below can be used to traverse a zip file, one compressed data stream at a time.

use IO::Uncompress::Unzip qw($UnzipError);

my $zipfile = "somefile.zip";
my $u = new IO::Uncompress::Unzip $zipfile
   or die "Cannot open $zipfile: $UnzipError";

my $status;
for ($status = 1; $status > 0; $status = $u->nextStream())
{
    my $name = $u->getHeaderInfo()->{Name};
    warn "Processing member $name\n" ;

    my $buff;
    while (($status = $u->read($buff)) > 0) {
        # Do something here
    }

    last if $status < 0;
}

die "Error processing $zipfile: $!
" if $status < 0 ;

Each individual compressed data stream is read until the logical end-of-file is reached. Then C<nextStream> is called. This will skip to the start of the next compressed data stream and clear the end-of-file flag.

It is also worth noting that C<nextStream> can be called at any time -- you don't have to wait until you have exhausted a compressed data stream before skipping to the next one.

Unzipping a complete zip file to disk

Daniel S. Sterling has written a script that uses C<IO::Uncompress::UnZip> to read a zip file and unzip its contents to disk.
The script is available from [https://gist.github.com/eqhmcow/5389877](https://gist.github.com/eqhmcow/5389877)

=head1 SEE ALSO

[L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
 L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
 L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
 L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
 L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzfl>, L<IO::Uncompress::UnLzfl>,
 L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ>, L<IO::Compress::FAQ>

L<File::GlobMapper>, L<Archive::Zip>, L<Archive::Tar>,
 L<IO::Zlib>

For RFC 1950, 1951 and 1952 see
F<http://www.faqs.org/rfcs/rfc1950.html>,
F<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is F<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

=head1 COPYRIGHT AND LICENSE

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This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1221036760_1635411574.98/0/perl-IO-Compress-2.061-2.el7-1.src.rpm-cosi-expand-archive-BdxFMaWM/IO-Compress-2.061.tar.gz-cosi-expand-archive-MGkVA6kN/IO-Compress-
=head1 NAME

IO::Compress::Zip - Write zip files/buffers

=head1 SYNOPSIS

use IO::Compress::Zip qw(zip $ZipError) ;

my $status = zip $input => $output [,OPTS] 
    or die "zip failed: $ZipError\n";

my $z = new IO::Compress::Zip $output [,OPTS] 
    or die "zip failed: $ZipError\n";

$z->print($string);
$z->printf($format, $string);
$z->write($string);
$z->syswrite($string [, $length, $offset]);
$z->flush();
$z->tell();
$z->eof();
$z->seek($position, $whence);
$z->binmode();
$z->fileno();
$z->opened();
$z->autoflush();
$z->input_line_number();
$z->newStream( [OPTS] );

$z->deflateParams();

$z->close() ;

$ZipError ;

# IO::File mode

print $z $string;
printf $z $format, $string;
tell $z
eof $z
seek $z, $position, $whence
binmode $z
This module provides a Perl interface that allows writing zip compressed data to files or buffer.

The primary purpose of this module is to provide streaming write access to zip files and buffers. It is not a general-purpose file archiver. If that is what you want, check out C<Archive::Zip>.

At present three compression methods are supported by IO::Compress::Zip, namely Store (no compression at all), Deflate, Bzip2 and LZMA.

Note that to create Bzip2 content, the module C<IO::Compress::Bzip2> must be installed.

Note that to create LZMA content, the module C<IO::Compress::Lzma> must be installed.

For reading zip files/buffers, see the companion module L<IO::Uncompress::Unzip|IO::Uncompress::Unzip>.

=head1 Functional Interface

A top-level function, C<zip>, is provided to carry out "one-shot" compression between buffers and/or files. For finer control over the compression process, see the L</"OO Interface"> section.

use IO::Compress::Zip qw(zip $ZipError) ;

zip $input_filename_or_reference => $output_filename_or_reference [,OPTS]
    or die "zip failed: $ZipError\n";

The functional interface needs Perl5.005 or better.

=head2 zip $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<zip> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the uncompressed data.
It can take one of the following forms:

=over 5

=item A filename

If the <$input_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

=item A filehandle

If the C<$input_filename_or_reference> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input_filename_or_reference> is a scalar reference, the input data will be read from C<$$input_filename_or_reference>.

=item An array reference

If C<$input_filename_or_reference> is an array reference, each element in the array must be a filename.

The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is compressed.

=item An Input FileGlob string

If C<$input_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<zip> will assume that it is an I<input fileglob string>. The input is the list of files that match the fileglob.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$input_filename_or_reference> parameter is any other type, C<undef> will be returned.

In addition, if C<$input_filename_or_reference> is a simple filename, the default values for
the C<Name>, C<Time>, C<TextFlag>, C<ExtAttr>, C<exUnixN> and C<exTime> options will be sourced from
that file.

If you do not want to use these defaults they can be overridden by
explicitly setting the C<Name>, C<Time>, C<TextFlag>, C<ExtAttr>, C<exUnixN> and C<exTime> options or by
setting the
C<Minimal> parameter.

=head3 The C<$output_filename_or_reference> parameter

The parameter C<$output_filename_or_reference> is used to control the
destination of the compressed data. This parameter can take one of
these forms.

=over 5

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is
assumed to be a filename. This file will be opened for writing and the
compressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the
compressed data will be written to it. The string '-' can be used as
an alias for standard output.

=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the
compressed data will be stored in C<$$output_filename_or_reference>.

=item An Array Reference

If C<$output_filename_or_reference> is an array reference,
the compressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output_filename_or_reference> is a string that is delimited by the
caracters "<" and ">" C<zip> will assume that it is an
I<output fileglob string>. The output is the list of files that match the
fileglob.

When C<$output_filename_or_reference> is a fileglob string,
C<$input_filename_or_reference> must also be a fileglob string. Anything
else is an error.
See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head2 Notes

When C<$input_filename_or_reference> maps to multiple files/buffers and C<$output_filename_or_reference> is a single file/buffer the input files/buffers will each be stored in C<$output_filename_or_reference> as a distinct entry.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<zip>, C<OPTS>, are the same as those used with the OO interface defined in the L<"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<zip> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<zip> has completed.

This parameter defaults to 0.

=item C<< BinModeIn => 0|1 >>

When reading from a file or filehandle, set C<binmode> before reading.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer
If C<Append> is enabled, all compressed data will be append to the end of
the output buffer. Otherwise the output buffer will be cleared before any
compressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise
the contents of the file, if any, will be truncated before any compressed
data is written to it.

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of
the file via a call to C<seek> before any compressed data is
written to it. Otherwise the file pointer will not be moved.

=back

When C<Append> is specified, and set to true, it will I<append> all compressed
data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof
before writing any compressed data. If the output is a filename, it will be opened for
appending. If the output is a buffer, all compressed data will be
appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to
false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file
before writing any compressed data. If the output is a filehandle
its position will not be changed. If the output is a buffer, it will be
wiped before any compressed data is output.

Defaults to 0.

=back

=head2 Examples

To read the contents of the file C<file1.txt> and write the compressed
data to the file C<file1.txt.zip>.

    use strict ;
    use warnings ;
    use IO::Compress::Zip qw(zip $ZipError) ;
my $input = "file1.txt";
zip $input => "$input.zip"
    or die "zip failed: $ZipError\n";

To read from an existing Perl filehandle, C<$input>, and write the
compressed data to a buffer, C<$buffer>.

use strict ;
use warnings ;
use IO::Compress::Zip qw(zip $ZipError) ;
use IO::File ;

my $input = new IO::File "<file1.txt"
    or die "Cannot open 'file1.txt': $!\n" ;
my $buffer ;
zip $input => \$buffer
    or die "zip failed: $ZipError\n";

To create a zip file, C<output.zip>, that contains the compressed contents
of the files C<alpha.txt> and C<beta.txt>

use strict ;
use warnings ;
use IO::Compress::Zip qw(zip $ZipError) ;

zip [ 'alpha.txt', 'beta.txt' ] => 'output.zip'
    or die "zip failed: $ZipError\n";

Alternatively, rather than having to explicitly name each of the files that
you want to compress, you could use a fileglob to select all the C<txt>
files in the current directory, as follows

use strict ;
use warnings ;
use IO::Compress::Zip qw(zip $ZipError) ;

my @files = <*.txt>;
zip @files => 'output.zip'
    or die "zip failed: $ZipError\n";

or more succinctly

zip [ <*.txt> ] => 'output.zip'
    or die "zip failed: $ZipError\n";

=head1 OO Interface

=head2 Constructor
The format of the constructor for C<IO::Compress::Zip> is shown below

my $z = new IO::Compress::Zip $output [,OPTS]
    or die "IO::Compress::Zip failed: $ZipError\n";

It returns an C<IO::Compress::Zip> object on success and undef on failure. The variable C<$ZipError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from IO::Compress::Zip can be used exactly like an L<IO::File|IO::File> filehandle. This means that all normal output file operations can be carried out with C<$z>.

For example, to write to a compressed file/buffer you can use either of these forms

    $z->print("hello world\n");
    print $z "hello world\n";

The mandatory parameter C<$output> is used to control the destination of the compressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the compressed data will be written to it.

=item A filehandle

If the C<$output> parameter is a filehandle, the compressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output> is a scalar reference, the compressed data will be stored in C<$$output>.

=back

If the C<$output> parameter is any other type, C<IO::Compress::Zip>::new will return undef.

=head2 Constructor Options
C<OPTS> is any combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$output> parameter is a filehandle. If specified, and the value is true, it will result in the C<$output> being closed once either the C<close> method is called or the C<IO::Compress::Zip> object is destroyed.

This parameter defaults to 0.

=item C<< Append => 0|1 >>

Opens C<$output> in append mode.

The behaviour of this option is dependent on the type of C<$output>.

=over 5

=item * A Buffer

If C<$output> is a buffer and C<Append> is enabled, all compressed data will be append to the end of C<$output>. Otherwise C<$output> will be cleared before any data is written to it.

=item * A Filename

If C<$output> is a filename and C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any compressed data is written to it.

=item * A Filehandle

If C<$output> is a filehandle, the file pointer will be positioned to the end of the file via a call to C<seek> before any compressed data is written to it. Otherwise the file pointer will not be moved.

=back

This parameter defaults to 0.

=item C<< Name => $string >>

Stores the contents of C<$string> in the zip filename header field.

If C>Name> is not specified and the C<$input> parameter is a filename, the
value of \texttt{C<$input> will be used for the zip filename header field.}

If \texttt{C<Name> is not specified and the C<$input> parameter is not a filename, no zip filename field will be created.}

Note that both the \texttt{C<CanonicalName> and C<FilterName> options can modify the value used for the zip filename header field.}

\texttt{=item C<< CanonicalName => 0|1 >>}

This option controls whether the filename field in the zip header is \texttt{I<normalized> into Unix format before being written to the zip file.}

It is recommended that you enable this option unless you really need to create a non-standard Zip file.

This is what APPNOTE.TXT has to say on what should be stored in the zip filename header field.

\begin{quote}
The name of the file, with optional relative path. The path stored should not contain a drive or device letter, or a leading slash. All slashes should be forward slashes '/' as opposed to backwards slashes '/' for compatibility with Amiga and UNIX file systems etc.
\end{quote}

This option defaults to \texttt{B<false>}. 

\texttt{=item C<< FilterName => sub [ ... ] >>}

This option allow the filename field in the zip header to be modified before it is written to the zip file.

This option takes a parameter that must be a reference to a sub. On entry to the sub the \texttt{C<$._> variable will contain the name to be filtered. If no filename is available \texttt{C<$._> will contain an empty string.}

The value of \texttt{C<$._> when the sub returns will be stored in the filename header field.}

Note that if \texttt{C<CanonicalName> is enabled, a normalized filename will be passed to the sub.}

If you use \texttt{C<FilterName> to modify the filename, it is your responsibility to keep the filename in Unix format.}

Although this option can be used with the OO ointerface, it is of most use with the one-shot interface. For example, the code below shows how
C<FilterName> can be used to remove the path component from a series of filenames before they are stored in C<$zipfile>.

```perl
sub compressTxtFiles
{
    my $zipfile = shift ;
    my $dir     = shift ;

    zip [ <$dir/*.txt> ] => $zipfile,
         FilterName => sub [ s[^$dir/][] ] ;
}

=item C<< Time => $number >>

Sets the last modified time field in the zip header to $number.

This field defaults to the time the C<IO::Compress::Zip> object was created if this option is not specified and the C<$input> parameter is not a filename.

=item C<< ExtAttr => $attr >>

This option controls the "external file attributes" field in the central header of the zip file. This is a 4 byte field.

If you are running a Unix derivative this value defaults to

    0100644 << 16

This should allow read/write access to any files that are extracted from the zip file/buffer.

For all other systems it defaults to 0.

=item C<< exTime => [$atime, $mtime, $ctime] >>

This option expects an array reference with exactly three elements: C<$atime>, C<$mtime> and C<$ctime>. These correspond to the last access time, last modification time and creation time respectively.

It uses these values to set the extended timestamp field (ID is "UT") in the local zip header using the three values, $atime, $mtime, $ctime. In addition it sets the extended timestamp field in the central zip header using C<$mtime>.

If any of the three values is C<undef> that time value will not be used. So, for example, to set only the C<$mtime> you would use this
exTime => [undef, $mtime, undef]

If the C<Minimal> option is set to true, this option will be ignored.

By default no extended time field is created.

=item C<< exUnix2 => [$uid, $gid] >>

This option expects an array reference with exactly two elements: C<$uid>
and C<$gid>. These values correspond to the numeric User ID (UID) and Group ID
(GID) of the owner of the files respectively.

When the C<exUnix2> option is present it will trigger the creation of a
Unix2 extra field (ID is "Ux") in the local zip header. This will be populated
with C<$uid> and C<$gid>. An empty Unix2 extra field will also
be created in the central zip header.

Note - The UID & GID are stored as 16-bit
integers in the "Ux" field. Use C<< exUnixN >> if your UID or GID are
32-bit.

If the C<Minimal> option is set to true, this option will be ignored.

By default no Unix2 extra field is created.

=item C<< exUnixN => [$uid, $gid] >>

This option expects an array reference with exactly two elements: C<$uid>
and C<$gid>. These values correspond to the numeric User ID (UID) and Group ID
(GID) of the owner of the files respectively.

When the C<exUnixN> option is present it will trigger the creation of a
UnixN extra field (ID is "ux") in both the local and central zip headers.
This will be populated with C<$uid> and C<$gid>. The UID & GID are stored as 32-bit integers.

If the C<Minimal> option is set to true, this option will be ignored.

By default no UnixN extra field is created.

=item C<< Comment => $comment >>

Stores the contents of C<$comment> in the Central File Header of
the zip file.

By default, no comment field is written to the zip file.

=item C<< ZipComment => $comment >>
Stores the contents of C<$comment> in the End of Central Directory record of the zip file.

By default, no comment field is written to the zip file.

=item C<< Method => $method >>

Controls which compression method is used. At present four compression methods are supported, namely Store (no compression at all), Deflate, Bzip2 and Lzma.

The symbols, ZIP_CM_STORE, ZIP_CM_DEFLATE, ZIP_CM_BZIP2 and ZIP_CM_LZMA are used to select the compression method.

These constants are not imported by C<IO::Compress::Zip> by default.

    use IO::Compress::Zip qw(:zip_method);
    use IO::Compress::Zip qw(:constants);
    use IO::Compress::Zip qw(:all);

Note that to create Bzip2 content, the module C<IO::Compress::Bzip2> must be installed. A fatal error will be thrown if you attempt to create Bzip2 content when C<IO::Compress::Bzip2> is not available.

Note that to create Lzma content, the module C<IO::Compress::Lzma> must be installed. A fatal error will be thrown if you attempt to create Lzma content when C<IO::Compress::Lzma> is not available.

The default method is ZIP_CM_DEFLATE.

=item C<< Stream => 0|1 >>

This option controls whether the zip file/buffer output is created in streaming mode.

Note that when outputting to a file with streaming mode disabled (C<Stream> is 0), the output file must be seekable.

The default is 1.

=item C<< Zip64 => 0|1 >>

Create a Zip64 zip file/buffer. This option is used if you want to store files larger than 4 Gig or store more than 64K files in a single zip archive.

C<Zip64> will be automatically set, as needed, if working with the one-shot
interface when the input is either a filename or a scalar reference.

If you intend to manipulate the Zip64 zip files created with this module using an external zip/unzip, make sure that it supports Zip64.

In particular, if you are using Info-Zip you need to have zip version 3.x or better to update a Zip64 archive and unzip version 6.x to read a zip64 archive.

The default is 0.

=item C<< TextFlag => 0|1 >>

This parameter controls the setting of a bit in the zip central header. It is used to signal that the data stored in the zip file/buffer is probably text.

In one-shot mode this flag will be set to true if the Perl C<-T> operator thinks the file contains text.

The default is 0.

=item C<< ExtraFieldLocal => $data >>

=item C<< ExtraFieldCentral => $data >>

The C<ExtraFieldLocal> option is used to store additional metadata in the local header for the zip file/buffer. The C<ExtraFieldCentral> does the same for the matching central header.

An extra field consists of zero or more subfields. Each subfield consists of a two byte header followed by the subfield data.

The list of subfields can be supplied in any of the following formats

ExtraFieldLocal => [ $id1, $data1,
                     $id2, $data2,
                     ... ]

ExtraFieldLocal => [ [ $id1 => $data1],
                     [ $id2 => $data2],
                     ... ]

ExtraFieldLocal => { $id1 => $data1,
                      $id2 => $data2,
                      ... }
Where C<$id1>, C<$id2> are two byte subfield ID's.

If you use the hash syntax, you have no control over the order in which
the ExtraSubFields are stored, plus you cannot have SubFields with
duplicate ID.

Alternatively the list of subfields can by supplied as a scalar, thus

ExtraField => $rawdata

In this case C<IO::Compress::Zip> will check that C<$rawdata> consists of
zero or more conformant sub-fields.

The Extended Time field (ID "UT"), set using the C<exTime> option, and the
Unix2 extra field (ID "Ux), set using the C<exUnix2> option, are examples
of extra fields.

If the C<Minimal> option is set to true, this option will be ignored.

The maximum size of an extra field 65535 bytes.

=item C<< Minimal => 1|0 >>

If specified, this option will disable the creation of all extra fields
in the zip local and central headers. So the C<exTime>, C<exUnix2>,
C<exUnixN>, C<ExtraFieldLocal> and C<ExtraFieldCentral> options will
be ignored.

This parameter defaults to 0.

=item C<< BlockSize100K => number >>

Specify the number of 100K blocks bzip2 uses during compression.

Valid values are from 1 to 9, where 9 is best compression.

This option is only valid if the C<Method> is ZIP_CM_BZIP2. It is ignored
otherwise.

The default is 1.

=item C<< WorkFactor => number >>

Specifies how much effort bzip2 should take before resorting to a slower
fallback compression algorithm.
Valid values range from 0 to 250, where 0 means use the default value 30.

This option is only valid if the \C<Method> is ZIP_CM_BZIP2. It is ignored otherwise.

The default is 0.

=item C<< Preset => number >>

Used to choose the LZMA compression preset.

Valid values are 0-9 and \C<LZMA_PRESET_DEFAULT>.

0 is the fastest compression with the lowest memory usage and the lowest compression.

9 is the slowest compression with the highest memory usage but with the best compression.

This option is only valid if the \C<Method> is ZIP_CM_LZMA. It is ignored otherwise.

Defaults to \C<LZMA_PRESET_DEFAULT> (6).

=item C<< Extreme => 0|1 >>

Makes LZMA compression a lot slower, but a small compression gain.

This option is only valid if the \C<Method> is ZIP_CM_LZMA. It is ignored otherwise.

Defaults to 0.

=item -Level

Defines the compression level used by zlib. The value should either be a number between 0 and 9 (0 means no compression and 9 is maximum compression), or one of the symbolic constants defined below.

\begin{verbatim}
Z_NO_COMPRESSION
Z_BEST_SPEED
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION
\end{verbatim}

The default is Z_DEFAULT_COMPRESSION.

Note, these constants are not imported by \C<IO::Compress::Zip> by default.
use IO::Compress::Zip qw(strategy);
use IO::Compress::Zip qw(constants);
use IO::Compress::Zip qw(all);

=item -Strategy

Defines the strategy used to tune the compression. Use one of the symbolic constants defined below.

Z_FILTERED
Z_HUFFMAN_ONLY
Z_RLE
Z_FIXED
Z_DEFAULT_STRATEGY

The default is Z_DEFAULT_STRATEGY.

=item C<< Strict => 0|1 >>

This is a placeholder option.

=back

=head2 Examples

TODO

=head1 Methods

=head2 print

Usage is

$z->print($data)
print $z $data

Compresses and outputs the contents of the $data parameter. This has the same behaviour as the print built-in.

Returns true if successful.

=head2 printf

Usage is

$z->printf($format, $data)
printf $z $format, $data
Compresses and outputs the contents of the C<$data> parameter.

Returns true if successful.

=head2 syswrite

Usage is

$z->syswrite $data  
$z->syswrite $data, $length  
$z->syswrite $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 write

Usage is

$z->write $data  
$z->write $data, $length  
$z->write $data, $length, $offset

Compresses and outputs the contents of the C<$data> parameter.

Returns the number of uncompressed bytes written, or C<undef> if unsuccessful.

=head2 flush

Usage is

$z->flush;  
$z->flush($flush_type);

Flushes any pending compressed data to the output file/buffer.

This method takes an optional parameter, C<$flush_type>, that controls how the flushing will be carried out. By default the C<$flush_type> used is C<Z_FINISH>. Other valid values for C<$flush_type> are C<Z_NO_FLUSH>, C<Z_SYNC_FLUSH>, C<Z_FULL_FLUSH> and C<Z_BLOCK>. It is strongly recommended that you only set the C<flush_type> parameter if you fully understand the implications of what it does - overuse of C<flush> can seriously degrade the level of compression achieved. See the C<zlib> documentation for details.
Returns true on success.

=head2 tell

Usage is

$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the C<close> method has been called.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction
that it is only legal to seek forward in the output file/buffer.
It is a fatal error to attempt to seek backward.

Empty parts of the file/buffer will have NULL (0x00) bytes written to them.

The C<$whence> parameter takes one the usual values, namely SEEK_SET,
SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
binmode $z;

This is a noop provided for completeness.

=head2 opened

$z->opened()
Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

  my $prev = $z->autoflush()
  my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

  $z->input_line_number()
  $z->input_line_number(EXPR)

This method always returns C<undef> when compressing.

=head2 fileno

  $z->fileno()
  fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

  $z->close() ;
  close $z ;

Flushes any pending compressed data and then closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Compress::Zip object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The
exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the \texttt{C<close>} method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call \texttt{C<close>} explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the \texttt{C<AutoClose>} option has been enabled when the \texttt{IO::Compress::Zip} object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 newStream([OPTS])

Usage is

\> \$z->newStream( [OPTS] )

Closes the current compressed data stream and starts a new one.

\texttt{OPTS} consists of any of the the options that are available when creating the \texttt{C<$z> object}. See the \L</"Constructor Options"> section for more details.

=head2 deflateParams

Usage is

\> \$z->deflateParams

TODO

=head1 Importing

A number of symbolic constants are required by some methods in \texttt{C<IO::Compress::Zip>}. None are imported by default.

=over 5

=item :all

Imports \texttt{C<zip>}, \texttt{C<$ZipError>} and all symbolic constants that can be used by \texttt{C<IO::Compress::Zip>}. Same as doing this
use IO::Compress::Zip qw(zip $ZipError :constants) ;

=item :constants

Import all symbolic constants. Same as doing this

use IO::Compress::Zip qw(:flush :level :strategy :zip_method) ;

=item :flush

These symbolic constants are used by the C<flush> method.

Z_NO_FLUSH
Z_PARTIAL_FLUSH
Z_SYNC_FLUSH
Z_FULL_FLUSH
Z_FINISH
Z_BLOCK

=item :level

These symbolic constants are used by the C<Level> option in the constructor.

Z_NO_COMPRESSION
Z_BEST_SPEED
Z_BEST_COMPRESSION
Z_DEFAULT_COMPRESSION

=item :strategy

These symbolic constants are used by the C<Strategy> option in the constructor.

Z_FILTERED
Z_HUFFMAN_ONLY
Z_RLE
Z_FIXED
Z_DEFAULT_STRATEGY

=item :zip_method

These symbolic constants are used by the C<Method> option in the constructor.

ZIP_CM_STORE
ZIP_CM_DEFLATE
ZIP_CM_BZIP2
=head1 EXAMPLES

=head2 Apache::GZip Revisited

See L<IO::Compress::FAQ/IO::Compress::FAQ/"Apache::GZip Revisited”>

=head2 Working with Net::FTP

See L<IO::Compress::FAQ/IO::Compress::FAQ/"Compressed files and Net::FTP”>

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>,
L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ/IO::Compress::FAQ>

L<File::GlobMapper/File::GlobMapper>, L<Archive::Zip/Archive::Zip>,
L<Archive::Tar/Archive::Tar>,
L<IO::Zlib/IO::Zlib>

For RFC 1950, 1951 and 1952 see
F<http://www.faqs.org/rfcs/rfc1950.html>,
F<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is F<http://www.gzip.org>.

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY
See the Changes file.

=head1 COPYRIGHT AND LICENSE

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Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Uncompress::Gunzip - Read RFC 1952 filesbuffers

=head1 SYNOPSIS

use IO::Uncompress::Gunzip qw(gunzip $GunzipError) ;

my $status = gunzip $input => $output [,OPTS]
  or die "gunzip failed: $GunzipError\n";

my $z = new IO::Uncompress::Gunzip $input [OPTS]
  or die "gunzip failed: $GunzipError\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
$char = $z->opened()

$status = $z->inflateSync()

$data = $z->trailingData()
$status = $z->nextStream()
$data = $z->getHeaderInfo()
$z->tell()
$z->seek($position, $whence)
$z->binmode()
$z->fileno()
$z->eof()
$z->close()
This module provides a Perl interface that allows the reading of files/buffers that conform to RFC 1952.

For writing RFC 1952 files/buffers, see the companion module IO::Compress::Gzip.

A top-level function, C<gunzip>, is provided to carry out "one-shot" uncompression between buffers and/or files. For finer control over the uncompression process, see the L</"OO Interface"> section.

use IO::Uncompress::Gunzip qw(gunzip $GunzipError) ;

  gunzip $input_filename_or_reference => $output_filename_or_reference [,OPTS]
  or die "gunzip failed: $GunzipError'n";

The functional interface needs Perl5.005 or better.

C<gunzip> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

The parameter, C<$input_filename_or_reference>, is used to define the source of the compressed data.

It can take one of the following forms:
If the `$input_filename_or_reference` parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

If the `$input_filename_or_reference` parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

If `$input_filename_or_reference` is a scalar reference, the input data will be read from `$input_filename_or_reference`.

If `$input_filename_or_reference` is an array reference, each element in the array must be a filename. The input data will be read from each file in turn. The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

If `$input_filename_or_reference` is a string that is delimited by the characters "<" and ">" `gzip` will assume that it is an input fileglob string. The input is the list of files that match the fileglob.

See L<File::GlobMapper> for more details.

If the `$input_filename_or_reference` parameter is any other type, `undef` will be returned.

The parameter `$output_filename_or_reference` parameter is used to control the destination of the uncompressed data. This parameter can take one of
these forms.

=item A filename

If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.

=item A filehandle

If the C<$output_filename_or_reference> parameter is a filehandle, the uncompressed data will be written to it. The string '-' can be used as an alias for standard output.

=item A scalar reference

If C<$output_filename_or_reference> is a scalar reference, the uncompressed data will be stored in C<$output_filename_or_reference>.

=item An Array Reference

If C<$output_filename_or_reference> is an array reference, the uncompressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">" C<gunzip> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is an fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

=back

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

=head2 Notes

When C<$input_filename_or_reference> maps to multiple compressed files/buffers and C<$output_filename_or_reference> is
a single file/buffer, after uncompression C<$output_filename_or_reference> will contain a concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<gunzip>, C<OPTS>, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<gunzip> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<gunzip> has completed.

This parameter defaults to 0.

=item C<< BinModeOut => 0|1 >>

When writing to a file or filehandle, set C<binmode> before writing to the file.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If C<Append> is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

=item * A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any uncompressed data is written to it. Otherwise the file pointer will not be moved.

=back

When C<Append> is specified, and set to true, it will I-append all uncompressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

=item C<< MultiStream => 0|1 >>

If the input file/buffer contains multiple compressed data streams, this option will uncompress the whole lot as a single data stream.

Defaults to 0.

=item C<< TrailingData => $scalar >>

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data
stream has been reached. You can then use the filehandle to read the rest of the input file.

Don’t bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option.

=back

=head2 Examples

To read the contents of the file C<file1.txt.gz> and write the uncompressed data to the file C<file1.txt>.

use strict ;
use warnings ;
use IO::Uncompress::Gunzip qw(gunzip $GunzipError) ;

my $input = "file1.txt.gz"
my $output = "file1.txt"
gunzip $input => $output
or die "gunzip failed: $GunzipError\n";

To read from an existing Perl filehandle, C<$input>, and write the uncompressed data to a buffer, C<$buffer>.

use strict ;
use warnings ;
use IO::Uncompress::Gunzip qw(gunzip $GunzipError) ;
use IO::File ;

my $input = new IO::File "<file1.txt.gz"
or die "Cannot open 'file1.txt.gz': $!\n" ;
my $buffer ;
gunzip $input => $buffer
or die "gunzip failed: $GunzipError\n";

To uncompress all files in the directory "~/my/home" that match "*.txt.gz" and store the compressed data in the same directory

use strict ;
use warnings ;
use IO::Uncompress::Gunzip qw(gunzip $GunzipError) ;

gunzip '~/my/home/*.txt.gz' => '~/my/home/#1.txt'
or die "gunzip failed: $GunzipError\n";
and if you want to compress each file one at a time, this will do the trick

    use strict;
    use warnings;
    use IO::Uncompress::Gunzip qw(gunzip $GunzipError);

    for my $input ( glob "/my/home/*.txt.gz" )
    {  
     my $output = $input;
     $output =~ s/.gz//;
     gunzip $input => $output
     or die "Error compressing '$input': $GunzipError\n";
    }

=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::Gunzip is shown below

    my $z = new IO::Uncompress::Gunzip $input [OPTS]
    or die "IO::Uncompress::Gunzip failed: $GunzipError\n";

Returns an C<IO::Uncompress::Gunzip> object on success and undef on failure.  
The variable C<$GunzipError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Uncompress::Gunzip can be used exactly like an L<IO::File|IO::File> filehandle.
This means that all normal input file operations can be carried out with
C<$z>.  For example, to read a line from a compressed file/buffer you can
use either of these forms

    $line = $z->getline();
    $line = <$z>;

The mandatory parameter C<$input> is used to determine the source of the
compressed data.  This parameter can take one of three forms.

=over 5

=item A filename

If the C<$input> parameter is a scalar, it is assumed to be a filename.  This
file will be opened for reading and the compressed data will be read from it.

=item A filehandle
If the C<$input> parameter is a filehandle, the compressed data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input> is a scalar reference, the compressed data will be read from C<$$input>.

=back

=head2 Constructor Options

The option names defined below are case insensitive and can be optionally prefixed by a '-'. So all of the following are valid

-AutoClose
-autoclose
AUTOCLOSE
autoclose

OPTS is a combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$input> parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the C<close> method is called or the IO::Uncompress::Gunzip object is destroyed.

This parameter defaults to 0.

=item C<< MultiStream => 0|1 >>

Allows multiple concatenated compressed streams to be treated as a single compressed stream. Decompression will stop once either the end of the file/buffer is reached, an error is encountered (premature eof, corrupt compressed data) or the end of a stream is not immediately followed by the start of another stream.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the input file/buffer.
This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be primed with these bytes using this option.

=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::Gunzip will read it in blocks of $num bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to $size. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.

This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the read method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the read method.

If set to 0, the contents of the output parameter of the read method will be overwritten by the uncompressed data.
Defaults to 0.

=item C<< Strict => 0|1 >>

This option controls whether the extra checks defined below are used when carrying out the decompression. When Strict is on, the extra tests are carried out, when Strict is off they are not.

The default for this option is off.

=over 5

=item 1

If the FHCRC bit is set in the gzip FLG header byte, the CRC16 bytes in the header must match the crc16 value of the gzip header actually read.

=item 2

If the gzip header contains a name field (FNAME) it consists solely of ISO 8859-1 characters.

=item 3

If the gzip header contains a comment field (FCOMMENT) it consists solely of ISO 8859-1 characters plus line-feed.

=item 4

If the gzip FEXTRA header field is present it must conform to the sub-field structure as defined in RFC 1952.

=item 5

The CRC32 and ISIZE trailer fields must be present.

=item 6

The value of the CRC32 field read must match the crc32 value of the uncompressed data actually contained in the gzip file.

=item 7

The value of the ISIZE fields read must match the length of the uncompressed data actually read from the file.

=back
If the gzip FEXTRA header field is present and this option is set, it will force the module to check that it conforms to the sub-field structure as defined in RFC 1952.

If the C<Strict> is on it will automatically enable this option.

Defaults to 0.

=head2 Examples

TODO

=head1 Methods

=head2 read

Usage is

$status = $z->read($buffer)

Reads a block of compressed data (the size the the compressed block is determined by the C<Buffer> option in the constructor), uncompresses it and writes any uncompressed data into C<$buffer>. If the C<Append> parameter is set in the constructor, the uncompressed data will be appended to the C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 read

Usage is

$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.

The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file
or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 getline

Usage is

```
$line = $z->getline()
$line = <$z>
```

Reads a single line.

This method fully supports the use of of the variable C<$/> (or C<$INPUT_RECORD_SEPARATOR> or C<$RS> when C<English> is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

```
$char = $z->getc()
```

Read a single character.

=head2 ungetc

Usage is

```
$char = $z->ungetc($string)
```

=head2 inflateSync

Usage is

```
$status = $z->inflateSync()
```

TODO

=head2 getHeaderInfo

Usage is

```
@hdr = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();
```
This method returns either a hash reference (in scalar context) or a list or hash references (in array context) that contains information about each of the header fields in the compressed data stream(s).

=item Name

The contents of the Name header field, if present. If no name is present, the value will be undef. Note this is different from a zero length name, which will return an empty string.

=item Comment

The contents of the Comment header field, if present. If no comment is present, the value will be undef. Note this is different from a zero length comment, which will return an empty string.

=head2 tell

Usage is

$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the input file/buffer. It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide
true random access to a compressed file/buffer. It works by uncompressing data from the current offset in the file/buffer until it reaches the uncompressed offset specified in the parameters to C<seek>. For very small files this may be acceptable behaviour. For large files it may cause an unacceptable delay.

The C<$whence> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
binmode $z;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

    my $prev = $z->autoflush()
    my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

$z->input_line_number()
$z->input_line_number(EXPR)

Returns the current uncompressed line number. If C<EXPR> is present it has
the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of C<$/> are used to determine what constitutes a line terminator.

=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close();
close $z;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Uncompress::Gunzip object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Uncompress::Gunzip object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

my $status = $z->nextStream();
Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and C<$.> will be reset to 0.

Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.

=head2 trailingData

Usage is

my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::Gunzip at present.

=head2 Imports

Imports C<gunzip> and C<$GunzipError>.

Same as doing this
use IO::Uncompress::Gunzip qw(gunzip $GunzipError) ;

=head1 EXAMPLES
=begin
See L<IO::Compress::FAQ/Compressed files and Net::FTP>
=end

=head1 SEE ALSO
L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Compress::Deflate>, L<IO::Uncompress::Inflate>,
L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>,
L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>,
L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>
L<IO::Compress::FAQ/Compressed files and Net::FTP>
L<File::GlobMapper/File::GlobMapper>, L<Archive::Zip/Archive::Zip>,
L<Archive::Tar/Archive::Tar>,
L<IO::Zlib/IO::Zlib>

For RFC 1950, 1951 and 1952 see
F<http://www.faqs.org/rfcs/rfc1950.html>,
F<http://www.faqs.org/rfcs/rfc1951.html> and

The I<zlib> compression library was written by Jean-loup Gailly
F<gzip@prep.ai.mit.edu> and Mark Adler F<madler@alumni.caltech.edu>.

The primary site for the I<zlib> compression library is

The primary site for gzip is F<http://www.gzip.org>.

=head1 AUTHOR
This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY
See the Changes file.

=head1 COPYRIGHT AND LICENSE
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=head1 NAME

IO::Uncompress::Bunzip2 - Read bzip2 files/buffers

=head1 SYNOPSIS

use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error) ;

my $status = bunzip2 $input => $output [,OPTS]
  or die "bunzip2 failed: $Bunzip2Error\n";

my $z = new IO::Uncompress::Bunzip2 $input [OPTS]
  or die "bunzip2 failed: $Bunzip2Error\n";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
$char = $z->opened()

$data = $z->trailingData()
$status = $z->nextStream()
$data = $z->getHeaderInfo()
$z->tell()
$z->seek($position, $whence)
$z->binmode()
$z->fileno()
$z->eof()
$z->close()

$Bunzip2Error ;

# IO::File mode

<$z>
read($z, $buffer);
read($z, $buffer, $length);
read($z, $buffer, $length, $offset);
tell($z)
seek($z, $position, $whence)
binnode($z)
fileno($z)
eof($z)
close($z)

=head1 DESCRIPTION

This module provides a Perl interface that allows the reading of
bzip2 files/buffers.

For writing bzip2 files/buffers, see the companion module IO::Compress::Bzip2.

=head1 Functional Interface

A top-level function, C<bunzip2>, is provided to carry out
"one-shot" uncompression between buffers and/or files. For finer
control over the uncompression process, see the L</"OO Interface">
section.

use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error) ;

bunzip2 $input => $output [,OPTS]
   or die "bunzip2 failed: $Bunzip2Error\n";

The functional interface needs Perl5.005 or better.

=head2 bunzip2 $input => $output [, OPTS]

C<bunzip2> expects at least two parameters, C<$input> and C<$output>.

=head3 The C<$input> parameter

The parameter, C<$input>, is used to define the source of
the compressed data.

It can take one of the following forms:

=over 5

=item A filename

If the C<$input> parameter is a simple scalar, it is assumed to be a
filename. This file will be opened for reading and the input data
will be read from it.

=item A filehandle

If the C<$input> parameter is a filehandle, the input data will be read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input> is a scalar reference, the input data will be read from C<$input>.

=item An array reference

If C<$input> is an array reference, each element in the array must be a filename. The input data will be read from each file in turn.

The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

=item An Input FileGlob string

If C<$input> is a string that is delimited by the characters "<" and ">", C<bunzip2> will assume that it is an input fileglob string>. The input is the list of files that match the fileglob.

If the fileglob does not match any files ... See L<File::GlobMapper> for more details.

=back

If the C<$input> parameter is any other type, C<undef> will be returned.

=head3 The C<$output> parameter

The parameter C<$output> is used to control the destination of the uncompressed data. This parameter can take one of these forms.

=over 5

=item A filename

If the C<$output> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.
=item A filehandle

If the C<$output> parameter is a filehandle, the uncompressed data will be written to it. The string '.' can be used as an alias for standard output.

=item A scalar reference

If C<$output> is a scalar reference, the uncompressed data will be stored in C<$output>.

=item An Array Reference

If C<$output> is an array reference, the uncompressed data will be pushed onto the array.

=item An Output FileGlob

If C<$output> is a string that is delimited by the characters "<" and ">" C<bunzip2> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output> is an fileglob string, C<$input> must also be a fileglob string. Anything else is an error.

=back

If the C<$output> parameter is any other type, C<undef> will be returned.

=head2 Notes

When C<$input> maps to multiple compressed files/buffers and C<$output> is a single file/buffer, after uncompression C<$output> will contain a concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<bunzip2>, C<OPTS>, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to
C<bunzip2> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<bunzip2> has completed.

This parameter defaults to 0.

=item C<< BinModeOut => 0|1 >>

When writing to a file or filehandle, set C<binmode> before writing to the file.

Defaults to 0.

=item C<< Append => 0|1 >>

TODO

=item C<< MultiStream => 0|1 >>

If the input file/buffer contains multiple compressed data streams, this option will uncompress the whole lot as a single data stream.

Defaults to 0.

=item C<< TrailingData => $scalar >>

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use C<trailingData> by setting the C<InputLength> option.
Examples

To read the contents of the file `file1.txt.bz2` and write the compressed data to the file `file1.txt`:

```perl
use strict;
use warnings;
use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error);

my $input = "file1.txt.bz2";
my $output = "file1.txt";
bunzip2 $input => $output
  or die "bunzip2 failed: $Bunzip2Error\n";
```

To read from an existing Perl filehandle, `$input`, and write the uncompressed data to a buffer, `$buffer`:

```perl
use strict;
use warnings;
use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error);
use IO::File;

my $input = new IO::File '<file1.txt.bz2'
  or die 'Cannot open 'file1.txt.bz2': $!\n' ;
my $buffer ;
bunzip2 $input => \$buffer
  or die "bunzip2 failed: $Bunzip2Error\n";
```

To uncompress all files in the directory `/my/home` that match `*.txt.bz2` and store the compressed data in the same directory:

```perl
use strict;
use warnings;
use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error);

bunzip2 '/my/home/*.txt.bz2' => '/my/home/#1.txt'
  or die "bunzip2 failed: $Bunzip2Error\n";
```

and if you want to compress each file one at a time, this will do the trick:

```perl
use strict;
use warnings;
use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error);

for my $input ( glob '/my/home/*.txt.bz2' )
```
my $output = $input;
$output =~ s/.bz2//;
bunzip2 $input => $output
   or die "Error compressing '$input': $Bunzip2Error\n";
}

=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::Bunzip2 is shown below

my $z = new IO::Uncompress::Bunzip2 $input [OPTS]
   or die "IO::Uncompress::Bunzip2 failed: $Bunzip2Error\n";

Returns an C<IO::Uncompress::Bunzip2> object on success and undef on failure.
The variable C<$Bunzip2Error> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from
IO::Uncompress::Bunzip2 can be used exactly like an L<IO::File|IO::File> filehandle.
This means that all normal input file operations can be carried out with
C<$z>. For example, to read a line from a compressed file/buffer you can
use either of these forms

   $line = $z->getline();
   $line = <$z>;

The mandatory parameter C<$input> is used to determine the source of the
compressed data. This parameter can take one of three forms.

=over 5

=item A filename

If the C<$input> parameter is a scalar, it is assumed to be a filename. This
file will be opened for reading and the compressed data will be read from it.

=item A filehandle

If the C<$input> parameter is a filehandle, the compressed data will be
read from it. The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input> is a scalar reference, the compressed data will be read from
C<$$output>.  

Constructor Options

The option names defined below are case insensitive and can be optionally prefixed by a `-`. So all of the following are valid:

- `AutoClose`
- `autoclose`
- `AUTOCLOSE`
- `autoclose`

OPTS is a combination of the following options:

- `AutoClose` => 0|1

This option is only valid when the `$input` parameter is a filehandle. If specified, and the value is true, it will result in the file being closed once either the `close` method is called or the IO::Uncompress::Bunzip2 object is destroyed.

This parameter defaults to 0.

- `MultiStream` => 0|1

Allows multiple concatenated compressed streams to be treated as a single compressed stream. Decompression will stop once either the end of the file/buffer is reached, an error is encountered (premature eof, corrupt compressed data) or the end of a stream is not immediately followed by the start of another stream.

This parameter defaults to 0.

- `Prime` => $string

This option will uncompress the contents of `$string` before processing the input file/buffer.

This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be I<primed> with these bytes using this option.

- `Transparent` => 0|1
If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::Bunzip2 will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.

This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method will be overwritten by the uncompressed data.

Defaults to 0.

=item C<< Strict => 0|1 >>

This option is a no-op.

=item C<< Small => 0|1 >>
When non-zero this options will make bzip2 use a decompression algorithm that uses less memory at the expense of increasing the amount of time taken for decompression.

Default is 0.

=head2 Examples

TODO

=head1 Methods

=head2 read

Usage is

$$status = $z->read($buffer)

Reads a block of compressed data (the size the the compressed block is determined by the C<Buffer> option in the constructor), uncompresses it and writes any uncompressed data into C<$buffer>. If the C<Append> parameter is set in the constructor, the uncompressed data will be appended to the C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 read

Usage is

$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)

$status = read($z, $buffer, $length)
$status = read($z, $buffer, $length, $offset)

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.

The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof
or a negative number on error.

=head2 getline

Usage is

    $line = $z->getline()
    $line = <$z>

Reads a single line.

This method fully supports the use of the variable C<$/> (or C<$INPUT_RECORD_SEPARATOR> or C<$RS> when C<$English> is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

    $char = $z->getc()

Read a single character.

=head2 ungetc

Usage is

    $char = $z->ungetc($string)

=head2 getHeaderInfo

Usage is

    $hdr = $z->getHeaderInfo();
    @hdrs = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list of hash references (in array context) that contains information about each of the header fields in the compressed data stream(s).

=head2 tell

Usage is

    $z->tell()
    tell $z
Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction that it is only legal to seek forward in the input file/buffer. It is a fatal error to attempt to seek backward.

The C<$whence> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

$z->binmode
binmode $z ;

This is a noop provided for completeness.

=head2 opened

$z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

my $prev = $z->autoflush()
my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every
write/print operation.

If \texttt{$z$} is associated with a buffer, this method has no effect and always returns \texttt{undef}.

\textbf{Note} that the special variable \texttt{$|}$ \textbf{cannot} be used to set or retrieve the autoflush setting.

=\texttt{input\_line\_number} \[ \texttt{$z$->input\_line\_number()} \]
\[ \texttt{$z$->input\_line\_number(EXPR)} \]

Returns the current uncompressed line number. If \texttt{EXPR} is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.

The contents of \texttt{/} are used to to determine what constitutes a line terminator.

=\texttt{fileno} \[ \texttt{$z$->fileno()} \]
\[ \texttt{fileno($z$)} \]

If the \texttt{$z$} object is associated with a file or a filehandle, \texttt{fileno} will return the underlying file descriptor. Once the \texttt{close} method is called \texttt{fileno} will return \texttt{undef}.

If the \texttt{$z$} object is is associated with a buffer, this method will return \texttt{undef}.

=\texttt{close} \[ \texttt{$z$->close()} ; \]
\[ \texttt{close $z$} ; \]

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the \texttt{IO::Uncompress::Bunzip2} object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the \texttt{close} method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions
of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Uncompress::Bunzip2 object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new compressed data stream is found, the eof marker will be cleared and C<$.> will be reset to 0.

Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.

=head2 trailingData

Usage is

my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start
uncompressing, you can avoid having to use C<trailingData> by setting the
C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::Bunzip2 at present.

=over 5
=item :all

Imports C<bunzip2> and C<$Bunzip2Error>.
Same as doing this

use IO::Uncompress::Bunzip2 qw(bunzip2 $Bunzip2Error) ;

=back

=head1 EXAMPLES

=head2 Working with Net::FTP

See L<IO::Uncompress::Bunzip2::FAQ|IO::Uncompress::Bunzip2::FAQ/>Compressed files and Net::FTP">

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>,
L<IO::Uncompress::UnLzf>, L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<Compress::Zlib::FAQ|Compress::Zlib::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

The primary site for the bzip2 program is F<http://www.bzip.org>.

See the module L<Compress::Bzip2|Compress::Bzip2>

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.
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NAME

File::GlobMapper - Extend File Glob to Allow Input and Output Files

SYNOPSIS

use File::GlobMapper qw( globmap );

my $aref = globmap $input => $output
  or die $File::GlobMapper::Error ;

my $gm = new File::GlobMapper $input => $output
  or die $File::GlobMapper::Error ;

DESCRIPTION

This module needs Perl 5.005 or better.

This module takes the existing C<File::Glob> module as a starting point and extends it to allow new filenames to be derived from the files matched by C<File::Glob>.

This can be useful when carrying out batch operations on multiple files that have both an input filename and output filename and the output file can be derived from the input filename. Examples of operations where this can be useful include, file renaming, file copying and file compression.

Behind The Scenes

To help explain what C<File::GlobMapper> does, consider what code you would write if you wanted to rename all files in the current directory that ended in C\.tar\.gz\. to C\<.tgz>. So say these files are in the
current directory

alpha.tar.gz
beta.tar.gz
gamma.tar.gz

and they need renamed to this

alpha.tgz
beta.tgz
gamma.tgz

Below is a possible implementation of a script to carry out the rename (error cases have been omitted)

```perl
define glob pattern C<*.tar.gz> was used to match the C<.tar.gz> files, then a fairly similar regular expression was used in the substitute to allow the new filename to be created.

Given that the file glob is just a cut-down regular expression and that it has already done a lot of the hard work in pattern matching the filenames, wouldn't it be handy to be able to use the patterns in the fileglob to drive the new filename?

Well, that's I<exactly> what C<File::GlobMapper> does.

Here is same snippet of code rewritten using C<globmap>

```perl
So how does it work?

Behind the scenes the C<globmap> function does a combination of a file glob to match existing filenames followed by a substitute
Notice how both parameters to C<globmap> are strings that are delimited by <>.
This is done to make them look more like file globs - it is just syntactic
sugar, but it can be handy when you want the strings to be visually
distinctive. The enclosing <> are optional, so you don’t have to use them - in
fact the first thing globmap will do is remove these delimiters if they are
present.

The first parameter to C<globmap>, C<*.tar.gz>, is an I<Input File Glob>.
Once the enclosing "< ... >" is removed, this is passed (more or
less) unchanged to C<File::Glob> to carry out a file match.

Next the fileglob C<*.tar.gz> is transformed behind the scenes into a
full Perl regular expression, with the additional step of wrapping each
transformed wildcard metacharacter sequence in parenthesis.

In this case the input fileglob C<*.tar.gz> will be transformed into
this Perl regular expression

    ([^/]*).tar.gz

Wrapping with parenthesis allows the wildcard parts of the Input File
Glob to be referenced by the second parameter to C<globmap>, C<#1.tgz>,
the I<Output File Glob>. This parameter operates just like the replacement
part of a substitute command. The difference is that the C<#1> syntax
is used to reference sub-patterns matched in the input fileglob, rather
than the C<$1> syntax that is used with perl regular expressions. In
this case C<#1> is used to refer to the text matched by the C<*> in the
Input File Glob. This makes it easier to use this module where the
parameters to C<globmap> are typed at the command line.

The final step involves passing each filename matched by the C<*.tar.gz>
file glob through the derived Perl regular expression in turn and
expanding the output fileglob using it.

The end result of all this is a list of pairs of filenames. By default
that is what is returned by C<globmap>. In this example the data structure
returned will look like this

    ( ["alpha.tar.gz" => 'alpha.tgz'],
      ["beta.tar.gz" => 'beta.tgz' ],
      ["gamma.tar.gz" => 'gamma.tgz']
    )

Each pair is an array reference with two elements - namely the I<from>
filename, that C<File::Glob> has matched, and a I<to> filename that is
derived from the `filename`.

=head2 Limitations

`File::GlobMapper` has been kept simple deliberately, so it isn't intended to solve all filename mapping operations. Under the hood `File::Glob` (or for older versions of Perl, `File::BSDGlob`) is used to match the files, so you will never have the flexibility of full Perl regular expression.

=head2 Input File Glob

The syntax for an Input FileGlob is identical to `File::Glob`, except for the following

=item 1.

No nested `{}`

=item 2.

Whitespace does not delimit fileglobs.

=item 3.

The use of parenthesis can be used to capture parts of the input filename.

=item 4.

If an Input glob matches the same file more than once, only the first will be used.

=back

The syntax

=over 5

=item B<~>

=item B<~user>

=item B<.>
Matches a literal `'.'`. Equivalent to the Perl regular expression\

=item B<*>\

Matches zero or more characters, except '/'. Equivalent to the Perl regular expression\n
[^/]*\

=item B<?,>\

Matches zero or one character, except '/'. Equivalent to the Perl regular expression\n
[^/]?\

=item B<\>\

Backslash is used, as usual, to escape the next character.\n
=item B<\[]>\

Character class.\n
=item B<\{,\}>\

Alternation\n
=item B<\()>\

Capturing parenthesis that work just like perl\n
=back\

Any other character it taken literally.\n
=head2 Output File Glob\n
The Output File Glob is a normal string, with 2 glob-like features.\n
The first is the `*` metacharacter. This will be replaced by the complete filename matched by the input file glob. So\n
*.c *.Z
The second is

Output FileGlob takes the

=over 5

=item "*"

The "*" character will be replaced with the complete input filename.

=item #1

Patterns of the form /#d/ will be replaced with the

=back

=head2 Returned Data

=head1 EXAMPLES

=head2 A Rename script

Below is a simple "rename" script that uses C<globmap> to determine the source and destination filenames.

use File::GlobMapper qw(globmap);
use File::Copy;

die "rename: Usage rename 'from' 'to'
unless @ARGV == 2;

my $fromGlob = shift @ARGV;
my $toGlob = shift @ARGV;

my $pairs = globmap($fromGlob, $toGlob)
or die $File::GlobMapper::Error;

for my $pair (@$pairs)
{
    my ($from, $to) = @$pair;
    move $from => $to;
}

Here is an example that renames all c files to cpp.
$ rename '*.c' '#1.cpp'

=head2 A few example globmaps

Below are a few examples of globmaps

To copy all your .c file to a backup directory

’/my/home/*.c’    ’/my/backup/#1.c’

If you want to compress all

’/my/home/*.[ch]’    ’*.gz’

To uncompress

’/my/home/*.[ch].gz’    ’/my/home/#1.#2’

=head1 SEE ALSO

L<File::Glob|File::Glob>

=head1 AUTHOR

The I<File::GlobMapper> module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 COPYRIGHT AND LICENSE

Copyright (c) 2005 Paul Marquess. All rights reserved.
This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

Found in path(s):
No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Uncompress::AnyUncompress - Uncompress gzip, zip, bzip2 or lzop file/buffer

=head1 SYNOPSIS

use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError) ;

my $status = anyuncompress $input => $output [,OPTS]
    or die "anyuncompress failed: $AnyUncompressError\n";
my $z = new IO::Uncompress::AnyUncompress $input [OPTS]
    or die "anyuncompress failed: $AnyUncompressError
";

$status = $z->read($buffer)
$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)
$line = $z->getline()
$char = $z->getc()
$char = $z->ungetc()
$char = $z->opened()

$data = $z->trailingData()
$status = $z->nextStream()
$data = $z->getHeaderInfo()
$z->tell()
$z->seek($position, $whence)
$z->binmode()
$z->fileno()
$z->eof()
$z->close()

$AnyUncompressError ;

# IO::File mode

<$z>
    read($z, $buffer);
    read($z, $buffer, $length);
    read($z, $buffer, $length, $offset);
    tell($z)
    seek($z, $position, $whence)
    binmode($z)
    fileno($z)
    eof($z)
    close($z)

=head1 DESCRIPTION

This module provides a Perl interface that allows the reading of files/buffers that have been compressed with a variety of compression libraries.

The formats supported are:

=over 5

=item RFC 1950
The module will auto-detect which, if any, of the supported compression formats is being used.

=head1 Functional Interface

A top-level function, C<anyuncompress>, is provided to carry out "one-shot" uncompression between buffers and/or files. For finer control over the uncompression process, see the L</"OO Interface"> section.

use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError) ;

anyuncompress $input_filename_or_reference => $output_filename_or_reference [,OPTS] or die "anyuncompress failed: $AnyUncompressError\n";

The functional interface needs Perl5.005 or better.

=head2 anyuncompress $input_filename_or_reference => $output_filename_or_reference [, OPTS]

C<anyuncompress> expects at least two parameters, C<$input_filename_or_reference> and C<$output_filename_or_reference>.

=head3 The C<$input_filename_or_reference> parameter

The parameter, C<$input_filename_or_reference>, is used to define the source of the compressed data.

It can take one of the following forms:
If the `<$input_filename_or_reference>` parameter is a simple scalar, it is assumed to be a filename. This file will be opened for reading and the input data will be read from it.

If the `$input_filename_or_reference` parameter is a filehandle, the input data will be read from it. The string `-` can be used as an alias for standard input.

If `$input_filename_or_reference` is a scalar reference, the input data will be read from `$input_filename_or_reference`.

If `$input_filename_or_reference` is an array reference, each element in the array must be a filename. The input data will be read from each file in turn. The complete array will be walked to ensure that it only contains valid filenames before any data is uncompressed.

If `$input_filename_or_reference` is a string that is delimited by the characters `<` and `>`, `$input_filename_or_reference` will assume that it is an input fileglob string. The input is the list of files that match the fileglob.

See `File::GlobMapper` for more details.

If the `$input_filename_or_reference` parameter is any other type, `undef` will be returned.

The parameter `$output_filename_or_reference` is used to control the destination of the uncompressed data. This parameter can take one of these forms.
If the C<$output_filename_or_reference> parameter is a simple scalar, it is assumed to be a filename. This file will be opened for writing and the uncompressed data will be written to it.

If the C<$output_filename_or_reference> parameter is a filehandle, the uncompressed data will be written to it. The string '-' can be used as an alias for standard output.

If C<$output_filename_or_reference> is a scalar reference, the uncompressed data will be stored in C<$output_filename_or_reference>.

If C<$output_filename_or_reference> is an array reference, the uncompressed data will be pushed onto the array.

If C<$output_filename_or_reference> is a string that is delimited by the characters "<" and ">", C<anyuncompress> will assume that it is an I<output fileglob string>. The output is the list of files that match the fileglob.

When C<$output_filename_or_reference> is a fileglob string, C<$input_filename_or_reference> must also be a fileglob string. Anything else is an error.

See L<File::GlobMapper|File::GlobMapper> for more details.

If the C<$output_filename_or_reference> parameter is any other type, C<undef> will be returned.

When C<$input_filename_or_reference> maps to multiple compressed files/buffers and C<$output_filename_or_reference> is a single file/buffer, after uncompression C<$output_filename_or_reference> will contain a
concatenation of all the uncompressed data from each of the input files/buffers.

=head2 Optional Parameters

Unless specified below, the optional parameters for C<anyuncompress>, C<OFTS>, are the same as those used with the OO interface defined in the L</"Constructor Options"> section below.

=over 5

=item C<< AutoClose => 0|1 >>

This option applies to any input or output data streams to C<anyuncompress> that are filehandles.

If C<AutoClose> is specified, and the value is true, it will result in all input and/or output filehandles being closed once C<anyuncompress> has completed.

This parameter defaults to 0.

=item C<< BinModeOut => 0|1 >>

When writing to a file or filehandle, set C<binmode> before writing to the file.

Defaults to 0.

=item C<< Append => 0|1 >>

The behaviour of this option is dependent on the type of output data stream.

=over 5

=item * A Buffer

If C<Append> is enabled, all uncompressed data will be append to the end of the output buffer. Otherwise the output buffer will be cleared before any uncompressed data is written to it.

=item * A Filename

If C<Append> is enabled, the file will be opened in append mode. Otherwise the contents of the file, if any, will be truncated before any uncompressed data is written to it.
A Filehandle

If C<Append> is enabled, the filehandle will be positioned to the end of the file via a call to C<seek> before any uncompressed data is written to it. Otherwise the file pointer will not be moved.

When C<Append> is specified, and set to true, it will I<append> all uncompressed data to the output data stream.

So when the output is a filehandle it will carry out a seek to the eof before writing any uncompressed data. If the output is a filename, it will be opened for appending. If the output is a buffer, all uncompressed data will be appended to the existing buffer.

Conversely when C<Append> is not specified, or it is present and is set to false, it will operate as follows.

When the output is a filename, it will truncate the contents of the file before writing any uncompressed data. If the output is a filehandle its position will not be changed. If the output is a buffer, it will be wiped before any uncompressed data is output.

Defaults to 0.

If the input file/buffer contains multiple compressed data streams, this option will uncompress the whole lot as a single data stream.

Defaults to 0.

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest
of the input file.

Don't bother using \texttt{trailingData} if the input is a filename.

If you know the length of the compressed data stream before you start
uncompressing, you can avoid having to use \texttt{trailingData} by setting the
\texttt{InputLength} option.

=head2 Examples

To read the contents of the file \texttt{file1.txt.Compressed} and write the
uncompressed data to the file \texttt{file1.txt}:

```perl
use strict ;
use warnings ;
use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError) ;

my $input = "file1.txt.Compressed"
my $output = "file1.txt"
anyuncompress $input => $output
  or die "anyuncompress failed: $AnyUncompressError\n"
```

To read from an existing Perl filehandle, \texttt{$input}, and write the
uncompressed data to a buffer, \texttt{$buffer}:

```perl
use strict ;
use warnings ;
use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError) ;
use IO::File ;

my $input = new IO::File "<file1.txt.Compressed"
  or die "Cannot open 'file1.txt.Compressed': $!\n"
my $buffer ;
anyuncompress $input => $buffer
  or die "anyuncompress failed: $AnyUncompressError\n"
```

To uncompress all files in the directory "\texttt{/my/home}" that match "*.txt.Compressed" and store the compressed data in
the same directory

```perl
use strict ;
use warnings ;
use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError) ;

anyuncompress '</my/home/*.txt.Compressed>' => '</my/home/#1.txt>'
  or die "anyuncompress failed: $AnyUncompressError\n"
```
and if you want to compress each file one at a time, this will do the trick

```perl
use strict ;
use warnings ;
use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError) ;

for my $input ( glob "/my/home/*.txt.Compressed" )
{
    my $output = $input;
    $output =~ s/.Compressed// ;
    anyuncompress $input => $output
        or die "Error compressing '$input': $AnyUncompressError\n";
}
```

=head1 OO Interface

=head2 Constructor

The format of the constructor for IO::Uncompress::AnyUncompress is shown below

```perl
my $z = new IO::Uncompress::AnyUncompress $input [OPTS]
    or die "IO::Uncompress::AnyUncompress failed: $AnyUncompressError\n";
```

Returns an C<IO::Uncompress::AnyUncompress> object on success and undef on failure. The variable C<$AnyUncompressError> will contain an error message on failure.

If you are running Perl 5.005 or better the object, C<$z>, returned from IO::Uncompress::AnyUncompress can be used exactly like an L<IO::File|IO::File> filehandle. This means that all normal input file operations can be carried out with C<$z>. For example, to read a line from a compressed file/buffer you can use either of these forms

```perl
$line = $z->getline();
$line = <$z>;
```

The mandatory parameter C<$input> is used to determine the source of the compressed data. This parameter can take one of three forms.

=over 5

=item A filename

If the C<$input> parameter is a scalar, it is assumed to be a filename. This file will be opened for reading and the compressed data will be read from it.

=item A filehandle

If the C<$input> parameter is a filehandle, the compressed data will be
read from it.
The string '-' can be used as an alias for standard input.

=item A scalar reference

If C<$input> is a scalar reference, the compressed data will be read from
C<$$input>.

=back

=head2 Constructor Options

The option names defined below are case insensitive and can be optionally
prefixed by a '-'. So all of the following are valid

-AutoClose
-autoclose
AUTOCLOSE
autoclose

OPTS is a combination of the following options:

=over 5

=item C<< AutoClose => 0|1 >>

This option is only valid when the C<$input> parameter is a filehandle. If
specified, and the value is true, it will result in the file being closed once
either the C<close> method is called or the IO::Uncompress::AnyUncompress object is
destroyed.

This parameter defaults to 0.

=item C<< MultiStream => 0|1 >>

Allows multiple concatenated compressed streams to be treated as a single
compressed stream. Decompression will stop once either the end of the
file/buffer is reached, an error is encountered (premature eof, corrupt
compressed data) or the end of a stream is not immediately followed by the
start of another stream.

This parameter defaults to 0.

=item C<< Prime => $string >>

This option will uncompress the contents of C<$string> before processing the
input file/buffer.
This option can be useful when the compressed data is embedded in another file/data structure and it is not possible to work out where the compressed data begins without having to read the first few bytes. If this is the case, the uncompression can be primed with these bytes using this option.

=item C<< Transparent => 0|1 >>

If this option is set and the input file/buffer is not compressed data, the module will allow reading of it anyway.

In addition, if the input file/buffer does contain compressed data and there is non-compressed data immediately following it, setting this option will make this module treat the whole file/buffer as a single data stream.

This option defaults to 1.

=item C<< BlockSize => $num >>

When reading the compressed input data, IO::Uncompress::AnyUncompress will read it in blocks of C<$num> bytes.

This option defaults to 4096.

=item C<< InputLength => $size >>

When present this option will limit the number of compressed bytes read from the input file/buffer to C<$size>. This option can be used in the situation where there is useful data directly after the compressed data stream and you know beforehand the exact length of the compressed data stream.

This option is mostly used when reading from a filehandle, in which case the file pointer will be left pointing to the first byte directly after the compressed data stream.

This option defaults to off.

=item C<< Append => 0|1 >>

This option controls what the C<read> method does with uncompressed data.

If set to 1, all uncompressed data will be appended to the output parameter of the C<read> method.

If set to 0, the contents of the output parameter of the C<read> method will be overwritten by the uncompressed data.
Defaults to 0.

=item C<< Strict => 0|1 >>

This option controls whether the extra checks defined below are used when carrying out the decompression. When Strict is on, the extra tests are carried out, when Strict is off they are not.

The default for this option is off.

=item C<< RawInflate => 0|1 >>

When auto-detecting the compressed format, try to test for raw-deflate (RFC 1951) content using the C<IO::Uncompress::RawInflate> module.

The reason this is not default behaviour is because RFC 1951 content can only be detected by attempting to uncompress it. This process is error prone and can result is false positives.

Defaults to 0.

=item C<< UnLzma => 0|1 >>

When auto-detecting the compressed format, try to test for lzma_alone content using the C<IO::Uncompress::UnLzma> module.

The reason this is not default behaviour is because lzma_alone content can only be detected by attempting to uncompress it. This process is error prone and can result is false positives.

Defaults to 0.

=back

=head2 Examples

TODO

=head1 Methods

=head2 read

Usage is

$status = $z->read($buffer)

Reads a block of compressed data (the size the the compressed block is determined by the C<Buffer> option in the constructor), uncompresses it and
writes any uncompressed data into C<$buffer>. If the C<Append> parameter is set in the constructor, the uncompressed data will be appended to the C<$buffer> parameter. Otherwise C<$buffer> will be overwritten.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 read

Usage is

$status = $z->read($buffer, $length)
$status = $z->read($buffer, $length, $offset)

$status = read($z, $buffer, $length)
$status = read($z, $buffer, $length, $offset)

Attempt to read C<$length> bytes of uncompressed data into C<$buffer>.

The main difference between this form of the C<read> method and the previous one, is that this one will attempt to return I<exactly> C<$length> bytes. The only circumstances that this function will not is if end-of-file or an IO error is encountered.

Returns the number of uncompressed bytes written to C<$buffer>, zero if eof or a negative number on error.

=head2 getline

Usage is

$line = $z->getline()
$line = <$z>

Reads a single line.

This method fully supports the use of of the variable C<$/> (or C<$INPUT_RECORD_SEPARATOR> or C<$RS> when C<English> is in use) to determine what constitutes an end of line. Paragraph mode, record mode and file slurp mode are all supported.

=head2 getc

Usage is

$char = $z->getc()

Read a single character.
Usage is

$char = $z->ungetc($string)

=head2 getHeaderInfo

Usage is

$hdr = $z->getHeaderInfo();
@hdrs = $z->getHeaderInfo();

This method returns either a hash reference (in scalar context) or a list
or hash references (in array context) that contains information about each
of the header fields in the compressed data stream(s).

=head2 tell

Usage is

$z->tell()
tell $z

Returns the uncompressed file offset.

=head2 eof

Usage is

$z->eof();
eof($z);

Returns true if the end of the compressed input stream has been reached.

=head2 seek

$z->seek($position, $whence);
seek($z, $position, $whence);

Provides a sub-set of the C<seek> functionality, with the restriction
that it is only legal to seek forward in the input file/buffer.
It is a fatal error to attempt to seek backward.

Note that the implementation of C<seek> in this module does not provide
true random access to a compressed file/buffer. It works by uncompressing
data from the current offset in the file/buffer until it reaches the
uncompressed offset specified in the parameters to C<seek>. For very small files this may be acceptable behaviour. For large files it may cause an unacceptable delay.

The C<$whence> parameter takes one the usual values, namely SEEK_SET, SEEK_CUR or SEEK_END.

Returns 1 on success, 0 on failure.

=head2 binmode

Usage is

    $z->binmode
    binmode $z ;

This is a noop provided for completeness.

=head2 opened

    $z->opened()

Returns true if the object currently refers to a opened file/buffer.

=head2 autoflush

    my $prev = $z->autoflush()
    my $prev = $z->autoflush(EXPR)

If the C<$z> object is associated with a file or a filehandle, this method returns the current autoflush setting for the underlying filehandle. If C<EXPR> is present, and is non-zero, it will enable flushing after every write/print operation.

If C<$z> is associated with a buffer, this method has no effect and always returns C<undef>.

B<Note> that the special variable C<$|> B<cannot> be used to set or retrieve the autoflush setting.

=head2 input_line_number

    $z->input_line_number()
    $z->input_line_number(EXPR)

Returns the current uncompressed line number. If C<EXPR> is present it has the effect of setting the line number. Note that setting the line number does not change the current position within the file/buffer being read.
The contents of C<$/> are used to determine what constitutes a line terminator.

=head2 fileno

$z->fileno()
fileno($z)

If the C<$z> object is associated with a file or a filehandle, C<fileno> will return the underlying file descriptor. Once the C<close> method is called C<fileno> will return C<undef>.

If the C<$z> object is associated with a buffer, this method will return C<undef>.

=head2 close

$z->close() ;
close $z ;

Closes the output file/buffer.

For most versions of Perl this method will be automatically invoked if the IO::Uncompress::AnyUncompress object is destroyed (either explicitly or by the variable with the reference to the object going out of scope). The exceptions are Perl versions 5.005 through 5.00504 and 5.8.0. In these cases, the C<close> method will be called automatically, but not until global destruction of all live objects when the program is terminating.

Therefore, if you want your scripts to be able to run on all versions of Perl, you should call C<close> explicitly and not rely on automatic closing.

Returns true on success, otherwise 0.

If the C<AutoClose> option has been enabled when the IO::Uncompress::AnyUncompress object was created, and the object is associated with a file, the underlying file will also be closed.

=head2 nextStream

Usage is

my $status = $z->nextStream();

Skips to the next compressed data stream in the input file/buffer. If a new
compressed data stream is found, the eof marker will be cleared and \C<$.> will be reset to 0.

Returns 1 if a new stream was found, 0 if none was found, and -1 if an error was encountered.

=head2 trailingData

Usage is

my $data = $z->trailingData();

Returns the data, if any, that is present immediately after the compressed data stream once uncompression is complete. It only makes sense to call this method once the end of the compressed data stream has been encountered.

This option can be used when there is useful information immediately following the compressed data stream, and you don't know the length of the compressed data stream.

If the input is a buffer, \C<trailingData> will return everything from the end of the compressed data stream to the end of the buffer.

If the input is a filehandle, \C<trailingData> will return the data that is left in the filehandle input buffer once the end of the compressed data stream has been reached. You can then use the filehandle to read the rest of the input file.

Don't bother using \C<trailingData> if the input is a filename.

If you know the length of the compressed data stream before you start uncompressing, you can avoid having to use \C<trailingData> by setting the \C<InputLength> option in the constructor.

=head1 Importing

No symbolic constants are required by this IO::Uncompress::AnyUncompress at present.

=over 5

=item :all

Imports \C<anyuncompress> and \C<$AnyUncompressError>.
Same as doing this

use IO::Uncompress::AnyUncompress qw(anyuncompress $AnyUncompressError) ;
EXAMPLES

SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>,
L<IO::Uncompress::AnyInflate>

L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

MODIFICATION HISTORY

See the Changes file.

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Found in path(s):
* /opt/cola/permits/1221036760_1635411574.98/0/perl-IO-Compress-2.061-2.el7-1.src.rpm-cosi-expand-archive-
BdxFMaWM/IO-Compress-2.061.tar.gz-cosi-expand-archive-MGkVA6kN/IO-Compress-
2.061/lib/IO/Uncompress/AnyUncompress.pm
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NAME

zipdetails - display the internal structure of zip files

SYNOPSIS

    zipdetails [-v] zipfile.zip
    zipdetails -h
DESCRIPTION

Zipdetails displays information about the internal record structure of the zip file. It is not concerned with displaying any details of the compressed data stored in the zip file.

The program assumes prior understanding of the internal structure of a Zip file. You should have a copy of the Zip APPNOTE file at hand to help understand the output from this program (L<SEE ALSO> for details).

OPTIONS

- Enable Verbose mode
- Display help

By default zipdetails will output the details of the zip file in three columns.

Column 1
This contains the offset from the start of the file in hex.

Column 2
This contains a textual description of the field.

Column 3
If the field contains a numeric value it will be displayed in hex. Zip stored most numbers in little-endian format - the value displayed will have the little-endian encoding removed.

Next, is an optional description of what the value means.
If the C<-v> option is present, column 1 is expanded to include

- The offset from the start of the file in hex.
- The length of the file in hex.
- A hex dump of the bytes in field in the order they are stored in the zip file.

=back

=head1 TODO

Error handling is still a work in progress. If the program encounters a problem reading a zip file it is likely to terminate with an unhelpful error message.

=head1 SEE ALSO


The C<zipinfo> program that comes with the info-zip distribution (L<http://www.info-zip.org/>) can also display details of the structure of a zip file.

See also L<Archive::Zip::SimpleZip>, L<IO::Compress::Zip>, L<IO::Uncompress::Unzip>.

=head1 AUTHOR
=head1 COPYRIGHT

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Found in path(s):
* /opt/cola/permits/1221036760_1635411574.98/0/perl-IO-Compress-2.061-2.el7-1.src.rpm-cosi-expand-archive-
  BdxFMaWM/IO-Compress-2.061.tar.gz-cosi-expand-archive-MGkVA6kN/IO-Compress-2.061/bin/zipdetails
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=head1 NAME

IO::Compress::FAQ -- Frequently Asked Questions about IO::Compress

=head1 DESCRIPTION

Common questions answered.

=head1 GENERAL

=head2 Compatibility with Unix compress/uncompress.

Although C<Compress::Zlib> has a pair of functions called C<compress> and
C<uncompress>, they are I<not> related to the Unix programs of the same
name. The C<Compress::Zlib> module is not compatible with Unix
C<compress>.

If you have the C<uncompress> program available, you can use this to read
compressed files

    open F, "uncompress -c $filename |";
    while (<F>)
      ...

Alternatively, if you have the C<gunzip> program available, you can use
this to read compressed files

    open F, "gunzip -c $filename |";
    while (<F>)
      ...


and this to write compress files, if you have the C<compress> program available

    open F, "| compress -c $filename ";
    print F "data";
    ...
    close F ;

=head2 Accessing .tar.Z files

The C<Archive::Tar> module can optionally use C<Compress::Zlib> (via the C<IO::Zlib> module) to access tar files that have been compressed with C<gzip>. Unfortunately tar files compressed with the Unix C<compress> utility cannot be read by C<Compress::Zlib> and so cannot be directly accessed by C<Archive::Tar>.

If the C<uncompress> or C<gunzip> programs are available, you can use one of these workarounds to read C<.tar.Z> files from C<Archive::Tar>

Firstly with C<uncompress>

    use strict;
    use warnings;
    use Archive::Tar;

    open F, "uncompress -c $filename |";
    my $tar = Archive::Tar->new(*F);
    ...

and this with C<gunzip>

    use strict;
    use warnings;
    use Archive::Tar;

    open F, "gunzip -c $filename |";
    my $tar = Archive::Tar->new(*F);
    ...

Similarly, if the C<compress> program is available, you can use this to write a C<.tar.Z> file

    use strict;
    use warnings;
    use Archive::Tar;
    use IO::File;

    my $fh = new IO::File "| compress -c >$filename";
my $tar = Archive::Tar->new();
...
$tar->write($fh);
$fh->close;

=head2 How do I recompress using a different compression?

This is easier than you might expect if you realise that all the
C<IO::Compress::*> objects are derived from C<IO::File> and that all the
C<IO::Uncompress::*> modules can read from an C<IO::File> filehandle.

So, for example, say you have a file compressed with gzip that you want to
recompress with bzip2. Here is all that is needed to carry out the
recompression.

use IO::Uncompress::Gunzip ':all';
use IO::Compress::Bzip2 ':all';

my $gzipFile = "somefile.gz";
my $bzipFile = "somefile.bz2";

my $gunzip = new IO::Uncompress::Gunzip $gzipFile
    or die "Cannot gunzip $gzipFile: $GunzipError\n";

bzip2 $gunzip => $bzipFile
    or die "Cannot bzip2 to $bzipFile: $Bzip2Error\n";

Note, there is a limitation of this technique. Some compression file
formats store extra information along with the compressed data payload. For
example, gzip can optionally store the original filename and Zip stores a
lot of information about the original file. If the original compressed file
contains any of this extra information, it will not be transferred to the
new compressed file using the technique above.

=head1 ZIP

=head2 What Compression Types do IO::Compress::Zip & IO::Uncompress::Unzip support?

The following compression formats are supported by C<IO::Compress::Zip> and
C<IO::Uncompress::Unzip>

=over 5

=item * Store (method 0)

No compression at all.

=item * Deflate (method 8)
This is the default compression used when creating a zip file with C<IO:Compress:Zip>.

=item * Bzip2 (method 12)

Only supported if the C<IO-Compress-Bzip2> module is installed.

=item * Lzma (method 14)

Only supported if the C<IO-Compress-Lzma> module is installed.

=back

=head2 Can I Read/Write Zip files larger than 4 Gig?

Yes, both the C<IO-Compress-Zip> and C<IO-Uncompress-Unzip> modules support the zip feature called I<Zip64>. That allows them to read/write files/buffers larger than 4Gig.

If you are creating a Zip file using the one-shot interface, and any of the input files is greater than 4Gig, a zip64 complaint zip file will be created.

    zip "really-large-file" => "my.zip";

Similarly with the one-shot interface, if the input is a buffer larger than 4 Gig, a zip64 complaint zip file will be created.

    zip \$really_large_buffer => "my.zip";

The one-shot interface allows you to force the creation of a zip64 zip file by including the C<Zip64> option.

    zip \$filehandle => "my.zip", Zip64 => 1;

If you want to create a zip64 zip file with the OO interface you must specify the C<Zip64> option.

    my $zip = new IO::Compress::Zip "whatever", Zip64 => 1;

When uncompressing with C<IO-Uncompress-Unzip>, it will automatically detect if the zip file is zip64.

If you intend to manipulate the Zip64 zip files created with C<IO-Compress-Zip> using an external zip/unzip, make sure that it supports Zip64.
In particular, if you are using Info-Zip you need to have zip version 3.x or better to update a Zip64 archive and unzip version 6.x to read a zip64 archive.

=head2 Can I write more that 64K entries is a Zip files?

Yes. Zip64 allows this. See previous question.

=head2 Zip Resources

The primary reference for zip files is the "appnote" document available at L<http://www.pkware.com/documents/casestudies/APPNOTE.TXT>

An alternatively is the Info-Zip appnote. This is available from L<ftp://ftp.info-zip.org/pub/infozip/doc/>

=head1 GZIP

=head2 Gzip Resources

The primary reference for gzip files is RFC 1952 L<http://www.faqs.org/rfcs/rfc1952.html>

The primary site for gzip is F<http://www.gzip.org>.

=head2 Dealing with Concatenated gzip files

If the gunzip program encounters a file containing multiple gzip files concatenated together it will automatically uncompress them all. The example below illustrates this behaviour

    $ echo abc | gzip -c >x.gz
    $ echo def | gzip -c >>x.gz
    $ gunzip -c x.gz
    abc
def

By default C<IO::Uncompress::Gunzip> will I<not> behave like the gunzip program. It will only uncompress the first gzip data stream in the file, as shown below

    $ perl -MIO::Uncompress::Gunzip=all -e 'gunzip "x.gz" => \*STDOUT'
    abc

To force C<IO::Uncompress::Gunzip> to uncompress all the gzip data streams, include the C<MultiStream> option, as shown below

    $ perl -MIO::Uncompress::Gunzip=all -e 'gunzip "x.gz" => \*STDOUT, MultiStream => 1'
ZLIB

The primary site for the zlib compression library is http://www.zlib.org.

Bzip2

The primary site for bzip2 is http://www.bzip.org.

Dealing with Concatenated bzip2 files

If the bunzip2 program encounters a file containing multiple bzip2 files concatenated together it will automatically uncompress them all. The example below illustrates this behaviour

```bash
$ echo abc | bzip2 -c >x.bz2
$ echo def | bzip2 -c >>x.bz2
$ bunzip2 -c x.bz2
abc
def
```

By default IO::Uncompress::Bunzip2 will not behave like the bunzip2 program. It will only uncompress the first bunzip2 data stream in the file, as shown below

```bash
$ perl -MIO::Uncompress::Bunzip2::all -e 'bunzip2 "x.bz2" => \"STDOUT\"'
abc
def
```

To force IO::Uncompress::Bunzip2 to uncompress all the bzip2 data streams, include the MultiStream option, as shown below

```bash
$ perl -MIO::Uncompress::Bunzip2::all -e 'bunzip2 "x.bz2" => \"STDOUT\", MultiStream => 1'
abc
def
```

Interoperating with Pbzip2

Pbzip2 (http://compression.ca/pbzip2/) is a parallel implementation of bzip2. The output from pbzip2 consists of a series of concatenated bzip2 data streams.
By default C<IO::Uncompress::Bzip2> will only uncompress the first bzip2
data stream in a pbzip2 file. To uncompress the complete pbzip2 file you
must include the C<MultiStream> option, like this.

    bunzip2 $input => \$output, MultiStream => 1
    or die "bunzip2 failed: $Bunzip2Error\n";

=head1 HTTP & NETWORK

=head2 Apache::GZip Revisited

Below is a mod_perl Apache compression module, called C<Apache::GZip>,
taken from
F<http://perl.apache.org/docs/tutorials/tips/mod_perl_tricks/mod_perl_tricks.html#On_the_Fly_Compression>

package Apache::GZip;
#File: Apache::GZip.pm

use strict vars;
use Apache::Constants 'common';
use Compress::Zlib;
use IO::File;
use constant GZIP_MAGIC => 0x1f8b;
use constant OS_MAGIC => 0x03;

sub handler {  
    my $r = shift;
    my ($fh,$gz);
    my $file = $r->filename;
    return DECLINED unless $fh=IO::File->new($file);
    $r->header_out('Content-Encoding'=>'gzip');
    $r->send_http_header;
    return OK if $r->header_only;
    tie *STDOUT,'Apache::GZip',$r;
    print($_) while <$fh>;
    untie *STDOUT;
    return OK;
}

sub TIEHANDLE {  
    my($class,$r) = @_;  
    # initialize a deflation stream
    my $d = deflateInit(-WindowBits=>-MAX_WBITS()) || return undef;

    # gzip header -- don't ask how I found out
    $r->print(pack("nccVcc",GZIP_MAGIC,Z_DEFLATED,0,time(),0,OS_MAGIC));
Here's the Apache configuration entry you'll need to make use of it. Once set it will result in everything in the /compressed directory will be compressed automagically.

```
<Location /compressed>
  SetHandler perl-script
  PerlHandler Apache::GZip
</Location>
```

Although at first sight there seems to be quite a lot going on in `Apache::GZip`, you could sum up what the code was doing as follows -- read the contents of the file in `<<<< $r->filename >>>`, compress it and write the compressed data to standard output. That's all.

This code has to jump through a few hoops to achieve this because
The gzip support in C<Compress::Zlib> version 1.x can only work with a real filesystem filehandle. The filehandles used by Apache modules are not associated with the filesystem.

That means all the gzip support has to be done by hand - in this case by creating a tied filehandle to deal with creating the gzip header and trailer.

C<IO::Compress::Gzip> doesn't have that filehandle limitation (this was one of the reasons for writing it in the first place). So if C<IO::Compress::Gzip> is used instead of C<Compress::Zlib> the whole tied filehandle code can be removed. Here is the rewritten code.

```perl
package Apache::GZip;

use strict vars;
use Apache::Constants ':common';
use IO::Compress::Gzip;
use IO::File;

sub handler {
  my $r = shift;
  my ($fh,$gz);
  my $file = $r->filename;
  return DECLINED unless $fh=IO::File->new($file);
  $r->header_out('Content-Encoding'=>'gzip');
  $r->send_http_header;
  return OK if $r->header_only;
  my $gz = new IO::Compress::Gzip '-', Minimal => 1
    or return DECLINED ;
  print $gz $_[0] while <$fh>;

  return OK;
}

or even more succintly, like this, using a one-shot gzip

package Apache::GZip;
```
use strict vars;
use Apache::Constants ':common';
use IO::Compress::Gzip qw(gzip);

sub handler {
    my $r = shift;
    $r->header_out('Content-Encoding' => 'gzip');
    $r->send_http_header;
    return OK if $r->header_only;
    gzip $r->filename => '-', Minimal => 1
        or return DECLINED ;

    return OK;
}

The use of one-shot C<gzip> above just reads from C<< $r->filename >> and
writes the compressed data to standard output.

Note the use of the C<Minimal> option in the code above. When using gzip
for Content-Encoding you should I<always> use this option. In the example
above it will prevent the filename being included in the gzip header and
make the size of the gzip data stream a slight bit smaller.

=head2 Compressed files and Net::FTP

The C<Net::FTP> module provides two low-level methods called C<stor> and
C<retr> that both return filehandles. These filehandles can used with the
C<IO::Compress/Uncompress> modules to compress or uncompress files read
from or written to an FTP Server on the fly, without having to create a
temporary file.

Firstly, here is code that uses C<retr> to uncompressed a file as it is
read from the FTP Server.

    use Net::FTP;
    use IO::Uncompress::Gunzip qw(:all);
    my $ftp = new Net::FTP ...
    my $retr_fh = $ftp->retr($compressed_filename);
    gunzip $retr_fh => $outFilename, AutoClose => 1
        or die "Cannot uncompress '$compressed_file': $GunzipError\n";

and this to compress a file as it is written to the FTP Server.
use Net::FTP;
use IO::Compress::Gzip qw(:all);

my $stor_fh = $ftp->stor($filename);
gzip "filename" => $stor_fh, AutoClose => 1
  or die "Cannot compress '$filename': $GzipError\n";

=head1 MISC

=head2 Using C<InputLength> to uncompress data embedded in a larger file/buffer.

A fairly common use-case is where compressed data is embedded in a larger file/buffer and you want to read both.

As an example consider the structure of a zip file. This is a well-defined file format that mixes both compressed and uncompressed sections of data in a single file.

For the purposes of this discussion you can think of a zip file as sequence of compressed data streams, each of which is prefixed by an uncompressed local header. The local header contains information about the compressed data stream, including the name of the compressed file and, in particular, the length of the compressed data stream.

To illustrate how to use C<InputLength> here is a script that walks a zip file and prints out how many lines are in each compressed file (if you intend write code to walking through a zip file for real see L<IO::Uncompress::Unzip/Walking through a zip file> ). Also, although this example uses the zlib-based compression, the technique can be used by the other C<IO::Uncompress::*> modules.

use strict;
use warnings;

use IO::File;
use IO::Uncompress::RawInflate qw(:all);

use constant ZIP_LOCAL_HDR_SIG  => 0x04034b50;
use constant ZIP_LOCAL_HDR_LENGTH => 30;

my $file = $ARGV[0] ;
my $fh = new IO::File "<$file"
  or die "Cannot open '$file': $!\n";

while (1)
{

my $sig;
my $buffer;

my $x ;
($x = $fh->read($buffer, ZIP_LOCAL_HDR_LENGTH)) == ZIP_LOCAL_HDR_LENGTH
    or die "Truncated file: $!
";

my $signature = unpack ("V", substr($buffer, 0, 4));
last unless $signature == ZIP_LOCAL_HDR_SIG;

# Read Local Header
my $gpFlag = unpack ("v", substr($buffer, 6, 2));
my $compressedMethod = unpack ("v", substr($buffer, 8, 2));
my $compressedLength = unpack ("V", substr($buffer, 18, 4));
my $uncompressedLength = unpack ("V", substr($buffer, 22, 4));
my $filename_length = unpack ("v", substr($buffer, 26, 2));
my $extra_length = unpack ("v", substr($buffer, 28, 2));

my $filename ;
$fh->read($filename, $filename_length) == $filename_length
    or die "Truncated file
";

$fh->read($buffer, $extra_length) == $extra_length
    or die "Truncated file
";

if ($compressedMethod != 8 && $compressedMethod != 0)
{
    warn "Skipping file '$filename' - not deflated $compressedMethod
";
    $fh->read($buffer, $compressedLength) == $compressedLength
        or die "Truncated file
";
    next;
}

if ($compressedMethod == 0 && $gpFlag & 8 == 8)
{
    die "Streamed Stored not supported for '$filename'
";
}

next if $compressedLength == 0;

# Done reading the Local Header

my $inf = new IO::Uncompress::RawInflate $fh,
    Transparent => 1,
    InputLength => $compressedLength
or die "Cannot uncompress $file [$filename]: $RawInflateError
" ;
my $line_count = 0;

while (<$inf>)
{
    ++ $line_count;
}

print "$filename: $line_count\n";
}

The majority of the code above is concerned with reading the zip local header data. The code that I want to focus on is at the bottom.

while (1) {

    # read local zip header data
    # get $filename
    # get $compressedLength

    my $inf = new IO::Uncompress::RawInflate $fh,
        Transparent => 1,
        InputLength => $compressedLength
    or die "Cannot uncompress $file [\$filename]: $RawInflateError\n" ;

    my $line_count = 0;

    while (<$inf>)
    {
        ++ $line_count;
    }

    print "$filename: $line_count\n";
}

The call to C<IO::Uncompress::RawInflate> creates a new filehandle C<$inf> that can be used to read from the parent filehandle C<$fh>, uncompressing it as it goes. The use of the C<InputLength> option will guarantee that I<at most> C<$compressedLength> bytes of compressed data will be read from the C<$fh> filehandle (The only exception is for an error case like a truncated file or a corrupt data stream).

This means that once RawInflate is finished C<$fh> will be left at the byte directly after the compressed data stream.

Now consider what the code looks like without C<InputLength>

while (1) {
# read local zip header data
# get $filename
# get $compressedLength

# read all the compressed data into $data
read($fh, $data, $compressedLength);

my $inf = new IO::Uncompress::RawInflate $data,
    Transparent => 1,
    or die "Cannot uncompress $file [$filename]: $RawInflateError\n";

my $line_count = 0;

while (<$inf>)
{
    ++ $line_count;
}

print "$filename: $line_count\n";

The difference here is the addition of the temporary variable C<$data>.
This is used to store a copy of the compressed data while it is being
uncompressed.

If you know that C<$compressedLength> isn't that big then using temporary
storage won't be a problem. But if C<$compressedLength> is very large or
you are writing an application that other people will use, and so have no
idea how big C<$compressedLength> will be, it could be an issue.

Using C<InputLength> avoids the use of temporary storage and means the
application can cope with large compressed data streams.

One final point -- obviously C<InputLength> can only be used whenever you
know the length of the compressed data beforehand, like here with a zip
file.

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>,
L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>,
L<IO::Compress::Bz2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>,
L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>,
L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>,
L<IO::Uncompress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ>
L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>, L<Archive::Tar|Archive::Tar>, L<IO::Zlib|IO::Zlib>

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

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=head1 NAME

IO::Uncompress::Base - Base Class for IO::Uncompress modules

=head1 SYNOPSIS

use IO::Uncompress::Base ;

=head1 DESCRIPTION

This module is not intended for direct use in application code. Its sole purpose if to to be sub-classed by IO::Uncompress modules.

=head1 SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>, L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>, L<IO::Compress::AnyInflate>, L<IO::Uncompress::AnyUncompress>

L<IO::Compress::FAQ|IO::Compress::FAQ>
This module was written by Paul Marquess, F<pmqs@cpan.org>.

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IO::Compress::Base - Base Class for IO::Compress modules

This module is not intended for direct use in application code. Its sole purpose is to be sub-classed by IO::Compress modules.

SEE ALSO

L<Compress::Zlib>, L<IO::Compress::Gzip>, L<IO::Uncompress::Gunzip>, L<IO::Compress::Deflate>, L<IO::Uncompress::Inflate>, L<IO::Compress::RawDeflate>, L<IO::Uncompress::RawInflate>, L<IO::Compress::Bzip2>, L<IO::Uncompress::Bunzip2>, L<IO::Compress::Lzma>, L<IO::Uncompress::UnLzma>, L<IO::Compress::Xz>, L<IO::Uncompress::UnXz>, L<IO::Compress::Lzop>, L<IO::Uncompress::UnLzop>, L<IO::Compress::Lzf>, L<IO::Uncompress::UnLzf>, L<IO::Compress::AnyInflate>, L<IO::Uncompress::AnyUncompress>
L<IO::Compress::FAQ|IO::Compress::FAQ>

L<File::GlobMapper|File::GlobMapper>, L<Archive::Zip|Archive::Zip>,
L<Archive::Tar|Archive::Tar>,
L<IO::Zlib|IO::Zlib>

=head1 AUTHOR

This module was written by Paul Marquess, F<pmqs@cpan.org>.

=head1 MODIFICATION HISTORY

See the Changes file.

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1.1570 javax-annotation-api 1.3
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 */

/**
 * StatefulKnowledgeSession is the most common way to interact with the engine. A StatefulKnowledgeSession
 * allows the application to establish an iterative conversation with the engine, where the state of the
 * session is kept across invocations. The reasoning process may be triggered multiple times for the
 * same set of data. After the application finishes using the session, though, it <b>must</b> call the
 * <code>dispose()</code> method in order to free the resources and used memory.
 * 
 * Simple example showing a stateful session executing rules for a given collection of java objects.
 * 
 * @code
 * KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
 * kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.DRL );
 * assertFalse( kbuilder.hasErrors() );
 * if (kbuilder.hasErrors()) {
 *     System.out.println( kbuilder.getErrors() );
 * }
 * KnowledgeBase kbase = KnowledgeBaseFactory.newKnowledgeBase();
 * kbase.addKnowledgePackages( kbuilder.getKnowledgePackages() );
 * StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
 * for( Object fact : facts ) {
 *     ksession.insert( fact );
 * } ksession.fireAllRules();
 * ksession.dispose();
 * @endcode
 */
* Simple example showing a stateful session executing processes.

```java
KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.BPMN2 );
KnowledgeBase kbase = kbuilder.newKnowledgeBase();
StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
ksession.startProcess("com.sample.processid");
ksession.signalEvent("SomeEvent", null);
ksession.startProcess("com.sample.processid");
ksession.dispose();
```

* StatefulKnowledgeSessions support globals.Globals are used to pass information into the engine (like data or service callbacks that can be used in your rules and processes), but they should not be used to reason over. If you need to reason over your data, make sure you insert it as a fact, not a global.</p>

* <p>Globals are shared among ALL your rules and processes, so be especially careful of (and avoid as much as possible) mutable globals. Also, it is a good practice to set your globals before inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion time, and so, if you are using a global to constraint a fact pattern, and the global is not set, you may receive a <code>NullPointerException</code>.</p>

* <p>Globals can be resolved in two ways. The StatefulKnowledgeSession supports getGlobals() which returns the internal Globals, which itself can take a delegate. Calling of setGlobal(String, Object) will set the global on an internal Collection. Identifiers in this internal Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.</p>

* <p>Code snippet for setting a global:</p>

```java
StatefulKnowledgeSession ksession = kbase.newStatefulKnowledgeSession();
ksession.setGlobal( "hbnSession", hibernateSession ); // sets a global hibernate session, that can be used for DB interactions in the rules.
for( Object fact : facts ) {
    ksession.insert( fact );
}
ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.
ksession.dispose();
```

* Like StatelessKnowledgeSession this also implements CommandExecutor which can be used to script a StatefulKnowledgeSession. See CommandExecutor for more details.
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  jar/org/drools/builder/conf/DeclarativeAgendaOption.java
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krb4

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libssh2 http://www.libssh2.org/

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL
**1.1591 xorg-x11-driv-fbdev 0.5.0-1.el7**

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**1.1592 kerberos 1.15.1-51.el7_9**

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/* -*- c-basic-offset: 4; indent-tabs-mode: nil -*- */
/* tests/s4u2proxy.c - S4U2Proxy test harness */

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*/

/*
Usage: s4u2proxy evccname targetname

* evccname contains an evidence ticket. The default ccache contains a TGT for
  the intermediate service. The default keytab contains a key for the
  intermediate service. An S4U2Proxy request is made to get a ticket from
  evccname's default principal to the target service. The resulting cred is
  stored in the default ccache.
*/

/* *-* mode: c; c-basic-offset: 4; indent-tabs-mode: nil *-* */
/* tests/shlib/t_loader.c */
/*
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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/* -*- c-basic-offset: 4; indent-tabs-mode: nil -*- */
/* kdc_audit.c - Interface for KDC audit plugins. */
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*/
/* -*- c-basic-offset: 4; indent-tabs-mode: nil -*- */
/* tests/plugorder.c - Test harness to display the order of loaded plugins */
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 */

/*
 * This file registers a few dummy built-in pwqual modules, then prints out the
 * order of pwqual modules returned by k5_plugin_load_all. The choice of the
 * pwqual interface is mostly arbitrary; it is an interface which libkrb5
 * itself doesn't use, for which we have a test module.
 */

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 */

/*
 * Program to take the place of the configure shell script under DOS.
 * The makefile.in files are constructed in such a way that all this
 * program needs to do is uncomment lines beginning #DOS by removing the
 * first 5 characters of the line. This will allow lines like:
 * #DOS!include win-pre.in to become: !include win-pre.in
 *
 * We also turn any line beginning with '@' into a blank line.
 *
 * If a config directory is specified, then the output will be start with
 * config\pre.in, then the filtered stdin text, and will end with
 * config\post.in.
 *
 */
* Syntax: wconfig [options] [config_directory] <input_file> >output_file
*
*/

1.1593 jbossjaxrpcapi 1.0.1.Final

1.1594 pam 1.1.8-22.el7

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson (jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied Linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn’t made it into the released version of the collector, yet.)

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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/headersUtils.java

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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/Headers.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io/netty/handler/codec/EmptyHeaders.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/compression/ZlibWrapper.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/marshalling/LimitingByteArrayInput.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/PrematureChannelClosureException.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
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jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-
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jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4.1-49-final-sources-1-jar/io/netty/handler/codec/ByteToMessageDecoder.java

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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/String/LineSeparator.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/compression/ByteBufChecksum.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/CodecOutputList.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java

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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1.jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.compression/Bzip2Rand.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.json/JsonObjectDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.compression/FastLzFrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.compression/Bzip2HuffmanAllocator.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.compression/Lz4FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.compression/LzfDecoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.compression/Bzip2BlockCompressor.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.compression/Bzip2MoveToFrontTable.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.compression/Lz4Constants.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.compression/LzfEncoder.java
* /opt/ws_local/PERMITS_SQL/1068232267_1594320776.43/0/netty-codec-4-1-49-final-sources-1-jar/io.netty.handler.codec.compression/FastLzFrameDecoder.java
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 */
/**
 * A decoder that splits the received @link ByteBuf)s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * @link LengthFieldBasedFrameDecoder has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +-----------+----------------+      +-----------+----------------+
 * | Length | Actual Content |----->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
 * +-----------+----------------+      +-----------+----------------+
 */
Because we can get the length of the content by calling
\{@link ByteBuf#readableBytes()\}, you might want to strip the length
field by specifying \(<tt>initialBytesToStrip</tt>\). In this example, we
specified \(<tt>2</tt>\), that is same with the length of the length field, to
strip the first two bytes.

* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+

In most cases, the length field represents the length of the message body
only, as shown in the previous examples. However, in some protocols, the
length field represents the length of the whole message, including the
message header. In such a case, we specify a non-zero
\(<tt>lengthAdjustment</tt>\). Because the length value in this example message
is always greater than the body length by \(<tt>2</tt>\), we specify \(<tt>-2</tt>\) as \(<tt>lengthAdjustment</tt>\) for compensation.

* BEFORE DECODE (14 bytes)         AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+

The following message is a simple variation of the first example. An extra
* header value is prepended to the message. `<tt>lengthAdjustment</tt>` is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* `<pre>
* `<b>lengthFieldOffset</b> = `<b>2</b> (= the length of Header 1)
* `<b>lengthFieldLength</b> = `<b>3</b>
* `lengthAdjustment = 0`
* `initialBytesToStrip = 0`
*
* `BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)`
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* `</pre>`
*
* `<h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>`
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
* header into the frame length calculation.
* `<pre>`
* `lengthFieldOffset = 0`
* `lengthFieldLength = 3`
* `<b>lengthAdjustment</b> = `<b>2</b> (= the length of Header 1)
* `initialBytesToStrip = 0`
* 
* `BEFORE DECODE (17 bytes)                      AFTER DECODE (17 bytes)`
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* `</pre>`
*
* `<h3>2 bytes length field at offset 1 in the middle of 4 bytes header,  
* strip the first header field and the length field</h3>`
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra
* header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero
* `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.
* `<pre>`
* `lengthFieldOffset = 1 (= the length of HDR1)`
* `lengthFieldLength = 2`
* lengthAdjustment = 1 (= the length of HDR2)
* initialBytesToStrip = 3 (= the length of HDR1 + LEN)

* BEFORE DECODE (16 bytes) | AFTER DECODE (13 bytes)
  +------------------------+------------------------+
  | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  +------------------------+------------------------+

* </pre>

* BEFORE DECODE (16 bytes) | AFTER DECODE (13 bytes)
  +------------------------+------------------------+
  | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  +------------------------+------------------------+

* </pre>

* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into lengthAdjustment.
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.

* lengthFieldOffset = 1
* lengthFieldLength = 2
* initialBytesToStrip = 3

* BEFORE DECODE (16 bytes) | AFTER DECODE (13 bytes)
  +------------------------+------------------------+
  | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  +------------------------+------------------------+

* </pre>

* @see LengthFieldPrepender
*/

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/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* Base64 Encoder/Decoder</a>.
*/

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* org.eclipse.jetty.orbit:javax.security.auth.message

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javaservlet:javaservlet-api
* javax.annotation:javaserialization-api
* javax.transaction:javatransaction-api
* javax.websocket:javawebsocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.
org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Because of this blurred distinction, using the ordinary General
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data
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1.1688 gobject-introspection 1.56.1-1.el7
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.1693 vinagre 3.22.0-12.el7

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
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jar/org/springframework/jca/work/glassfish/GlassFishWorkManagerTaskExecutor.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-
jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-
jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-
jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-
jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-
jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-
jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-
jar/org/springframework/transaction/TransactionStatus.java
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Found in path(s):
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/support/ResourceHolder.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/interceptor/TransactionInterceptor.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/SavepointManager.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
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* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/support/TransactionSynchronization.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/SavepointManager.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/SavepointManager.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
* /opt/cola/permits/1144749176_1618993700.19/0/spring-tx-4-1-5-release-sources-3-jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java
1.1701 util-linux 2.23.2-65.el7_9.1

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1.1710 spidermonkey 1.8.5

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This is JavaScriptCore's variant of the PCRE library. While this library started out as a copy of PCRE, many of the features of PCRE have been removed.

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When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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a) Accompany the work with the complete corresponding
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with the Library, with the complete machine-readable “work that
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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That's all there is to it!

1.1713 stilts-conduit-server-core
0.1.26.redhat-3

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* /opt/cola/permits/1126575452_1611719615.44/0/stilts-conduit-server-core-0-1-26-redhat-1-sources-jar/org/projectodd/stilts/conduit/xa/PseudoXATransaction.java

1.1714 sqlite 3.7.17-8.el7
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The <b><a href="th3.html">TH3</a></b> test harness is a set of proprietary tests, written in

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/*
** CAPI3REF: Configuration Options
** KEYWORDS: [configuration option]
**
** These constants are the available integer configuration options that
** can be passed as the first argument to the [sqlite3_config()] interface.
**
** New configuration options may be added in future releases of SQLite.
** Existing configuration options might be discontinued. Applications
** should check the return code from [sqlite3_config()] to make sure that
** the call worked. The [sqlite3_config()] interface will return a
** non-zero [error code] if a discontinued or unsupported configuration option
** is invoked.
**
** "<dl>
** [SQLITE_CONFIG_SINGLETHREAD] <dt>SQLITE_CONFIG_SINGLETHREAD</dt>
** <dd>This option sets the</dd>
** threading mode] to Single-thread. In other words, it disables
** all mutexing and puts SQLite into a mode where it can only be used
** by a single thread. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to change the [threading mode] from its default
** value of Single-thread and so [sqlite3_config()] will return
** [SQLITE_ERROR] if called with the SQLITE_CONFIG_SINGLETHREAD
** configuration option.</dd>
**
** [SQLITE_CONFIG_MULTITHREAD] <dt>SQLITE_CONFIG_MULTITHREAD</dt>
** <dd>This option sets the</dd>
** threading mode] to Multi-thread. In other words, it disables
** mutexing on [database connection] and [prepared statement] objects.
** The application is responsible for serializing access to
** [database connections] and [prepared statements]. But other mutexes
** are enabled so that SQLite will be safe to use in a multi-threaded
** environment as long as no two threads attempt to use the same
** [database connection] at the same time. ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set the Multi-thread [threading mode] and
** [sqlite3_config()] will return [SQLITE_ERROR] if called with the
** SQLITE_CONFIG_MULTITHREAD configuration option.</dd>
**
** [SQLITE_CONFIG_SERIALIZED] <dt>SQLITE_CONFIG_SERIALIZED</dt>
** <dd>This option sets the</dd>
** threading mode] to Serialized. In other words, this option enables
** all mutexes including the recursive
** mutexes on [database connection] and [prepared statement] objects.
** In this mode (which is the default when SQLite is compiled with
** [SQLITE_THREADSAFE=1]) the SQLite library will itself serialize access
** to [database connections] and [prepared statements] so that the
** application is free to use the same [database connection] or the
** same [prepared statement] in different threads at the same time.
** ^If SQLite is compiled with
** the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
** it is not possible to set theSerialized [threading mode] and
**  [sqlite3_config()] will return [SQLITE_ERROR] if called with the
**  SQLite_CONFIG_SERIALIZE configuration option.</dd>

**

** [[SQLITE_CONFIG_MALLOC]] <dt>SQLITE_CONFIG_MALLOC</dt>
**  ^(This option takes a single argument which is a pointer to an
**  instance of the [sqlite3_mem_methods] structure. The argument specifies
**  alternative low-level memory allocation routines to be used in place of
**  the memory allocation routines built into SQLite.)^ ^SQLite makes
**  its own private copy of the content of the [sqlite3_mem_methods] structure
**  before the [sqlite3_config()] call returns.</dd>

**

** [[SQLITE_CONFIG_GET_MALLOC]] <dt>SQLITE_CONFIG_GET_MALLOC</dt>
**  ^(This option takes a single argument which is a pointer to an
**  instance of the [sqlite3_mem_methods] structure. The [sqlite3_mem_methods]
**  structure is filled with the currently defined memory allocation routines.)^  
**  This option can be used to overload the default memory allocation
**  routines with a wrapper that simulates memory allocation failure or
**  tracks memory usage, for example.  </dd>

**

** [[SQLITE_CONFIG_MEMSTATUS]] <dt>SQLITE_CONFIG_MEMSTATUS</dt>
**  ^(When memory allocation statistics are disabled, the
**  following SQLite interfaces become non-operational:
**  <ul>
**  <li>  [sqlite3_memory_used()]
**  <li>  [sqlite3_memory_highwater()]
**  <li>  [sqlite3_soft_heap_limit64()]
**  <li>  [sqlite3_status()]
**  </ul>)^  
**  Memory allocation statistics are enabled by default unless SQLite is
**  compiled with [SQLITE_DEFAULT_MEMSTATUS]=0 in which case memory
**  allocation statistics are disabled by default.
**  </dd>

**

** [[SQLITE_CONFIG_SCRATCH]] <dt>SQLITE_CONFIG_SCRATCH</dt>
**  ^(This option specifies a static memory buffer that SQLite can use for
**  scratch memory. There are three arguments: A pointer an 8-byte
**  aligned memory buffer from which the scratch allocations will be
**  drawn, the size of each scratch allocation (sz),
**  and the maximum number of scratch allocations (N). The sz
**  argument must be a multiple of 16.
**  The first argument must be a pointer to an 8-byte aligned buffer
**  of at least sz*N bytes of memory.
**  ^SQLite will use no more than two scratch buffers per thread. So
**  N should be set to twice the expected maximum number of threads.
**  ^SQLite will never require a scratch buffer that is more than 6
times the database page size. If SQLite needs additional
scratch memory beyond what is provided by this configuration option, then
.sqlite3_malloc() will be used to obtain the memory needed.</dd>
**
** [[SQLITE_CONFIG_PAGECACHE]]<dt>SQLITE_CONFIG_PAGECACHE</dt>
** <dd> This option specifies a static memory buffer that SQLite can use for
the database page cache with the default page cache implementation.
This configuration should not be used if an application-define page
cache implementation is loaded using the SQLITE_CONFIG_PCACHE2 option.
There are three arguments to this option: A pointer to 8-byte aligned
memory, the size of each page buffer (sz), and the number of pages (N).
The sz argument should be the size of the largest database page
(a power of two between 512 and 32768) plus a little extra for each
page header. The page header size is 20 to 40 bytes depending on
the host architecture. It is harmless, apart from the wasted memory,
to make sz a little too large. The first
argument should point to an allocation of at least sz*N bytes of memory.
SQLite will use the memory provided by the first argument to satisfy its
memory needs for the first N pages that it adds to cache. If additional
page cache memory is needed beyond what is provided by this option, then
SQLite goes to [sqlite3_malloc()] for the additional storage space.
The pointer in the first argument must
be aligned to an 8-byte boundary or subsequent behavior of SQLite
will be undefined.</dd>
**
** [[SQLITE_CONFIG_HEAP]]<dt>SQLITE_CONFIG_HEAP</dt>
** <dd> This option specifies a static memory buffer that SQLite will use
for all of its dynamic memory allocation needs beyond those provided
for by [SQLITE_CONFIG_SCRATCH] and [SQLITE_CONFIG_PAGECACHE].
There are three arguments: An 8-byte aligned pointer to the memory,
the number of bytes in the memory buffer, and the minimum allocation size.
If the first pointer (the memory pointer) is NULL, then SQLite reverts
to using its default memory allocator (the system malloc() implementation),
doing any prior invocation of [SQLITE_CONFIG_MALLOC]. If the
memory pointer is not NULL and either [SQLITE_ENABLE_MEMSYS3] or
[SQLITE_ENABLE_MEMSYS5] are defined, then the alternative memory
allocator is engaged to handle all of SQLites memory allocation needs.
The first pointer (the memory pointer) must be aligned to an 8-byte
boundary or subsequent behavior of SQLite will be undefined.
The minimum allocation size is capped at 2**12. Reasonable values
for the minimum allocation size are 2**5 through 2**8.</dd>
**
** [[SQLITE_CONFIG_MUTEX]]<dt>SQLITE_CONFIG_MUTEX</dt>
** <dd> This option takes a single argument which is a pointer to an
instance of the [sqlite3_mutex_methods] structure. The argument specifies
alternative low-level mutex routines to be used in place
the mutex routines built into SQLite.)^ ^SQLite makes a copy of the
content of the [sqlite3_mutex_methods] structure before the call to
** [sqlite3_config()] returns. ^If SQLite is compiled with
multiple threads, the mutexing subsystem is omitted from the build and hence calls to
[sqlite3_config()] with the SQLITE_CONFIG_MUTEX configuration option will
return [SQLITE_ERROR].</dd>

** [[SQLITE_CONFIG_GETMUTEX]] <dt>SQLITE_CONFIG_GETMUTEX</dt>

** <dd> ^(This option takes a single argument which is a pointer to an
instance of the [sqlite3_mutex_methods] structure. The
structure is filled with the currently defined mutex routines.)^  
This option can be used to overload the default mutex allocation
routines with a wrapper used to track mutex usage for performance
profiling or testing, for example. ^If SQLite is compiled with
the [SQLITE_THREADSAFE | SQLITE_THREADSAFE=0] compile-time option then
the entire mutexing subsystem is omitted from the build and hence calls to
[sqlite3_config()] with the SQLITE_CONFIG_GETMUTEX configuration option will
return [SQLITE_ERROR].</dd>

** [[SQLITE_CONFIG_LOOKASIDE]] <dt>SQLITE_CONFIG_LOOKASIDE</dt>

** <dd> ^(This option takes two arguments that determine the default
memory allocation for the lookaside memory allocator on each
database connection. The first argument is the
size of each lookaside buffer slot and the second is the number of
slots allocated to each database connection.)^  
This option sets the default lookaside size. The [SQLITE_DBCONFIG_LOOKASIDE]
verb to [sqlite3_db_config()] can be used to change the lookaside
configuration on individual connections.)^  </dd>

** [[SQLITE_CONFIG_PCACHE2]] <dt>SQLITE_CONFIG_PCACHE2</dt>

** <dd> ^(This option takes a single argument which is a pointer to
an [sqlite3_pcache_methods2] object. This object specifies the interface
to a custom page cache implementation.)^  
SQLite makes a copy of the
object and uses it for page cache memory allocations.</dd>

** [[SQLITE_CONFIG_GETPCACHE2]] <dt>SQLITE_CONFIG_GETPCACHE2</dt>

** <dd> ^(This option takes a single argument which is a pointer to an
[sqlite3_pcache_methods2] object. SQLite copies of the current
page cache implementation into that object.)^  </dd>

** [[SQLITE_CONFIG_LOG]] <dt>SQLITE_CONFIG_LOG</dt>

** <dd> The SQLITE_CONFIG_LOG option is used to configure the SQLite
global [error log].
(^The SQLITE_CONFIG_LOG option takes two arguments: a pointer to a
function with a call signature of void(*)(void*,int,const char*),
and a pointer to void. ^If the function pointer is not NULL, it is
invoked by [sqlite3_log()]) to process each logging event. ^If the
function pointer is NULL, the [sqlite3_log()] interface becomes a no-op.)
The void pointer that is the second argument to SQLITE_CONFIG_LOG is passed through as the first parameter to the application-defined logger function whenever that function is invoked. The second parameter to the logger function is a copy of the first parameter to the corresponding [sqlite3_log()] call and is intended to be a result code or an extended result code. The third parameter passed to the logger is log message after formatting via [sqlite3_snprintf()]. The SQLite logging interface is not reentrant; the logger function supplied by the application must not invoke any SQLite interface.

In a multi-threaded application, the application-defined logger function must be threadsafe.

---

The option takes a single argument of type int. If non-zero, then URI handling is globally enabled. If the parameter is zero, then URI handling is globally disabled. If URI handling is globally enabled, all filenames passed to [sqlite3_open()], [sqlite3_open_v2()], [sqlite3_open16()] or specified as part of [ATTACH] commands are interpreted as URIs, regardless of whether or not the [SQLITE_OPEN_URI] flag is set when the database connection is opened. If it is globally disabled, filenames are only interpreted as URIs if the SQLITE_OPEN_URI flag is set when the database connection is opened. By default, URI handling is globally disabled. The default value may be changed by compiling with the [SQLITE_USE_URI] symbol defined.

This option takes a single integer argument which is interpreted as a boolean in order to enable or disable the use of covering indices for full table scans in the query optimizer. The default setting is determined by the [SQLITE_ALLOW_COVERING_INDEX_SCAN] compile-time option, or is "on" if that compile-time option is omitted. The ability to disable the use of covering indices for full table scans is because some incorrectly coded legacy applications might malfunction when the optimization is enabled. Providing the ability to disable the optimization allows the older, buggy application code to work without change even with newer versions of SQLite.

These options are obsolete and should not be used by new code. They are retained for backwards compatibility but are now no-ops.

This option is only available if sqlite is compiled with the [SQLITE_ENABLE_SQLLOG] pre-processor macro defined. The first argument should be a pointer to a function of type void(*)(void*,sqlite3*,const char*, int).
** The second should be of type (void*). The callback is invoked by the library
** in three separate circumstances, identified by the value passed as the
** fourth parameter. If the fourth parameter is 0, then the database connection
** passed as the second argument has just been opened. The third argument
** points to a buffer containing the name of the main database file. If the
** fourth parameter is 1, then the SQL statement that the third parameter
** points to has just been executed. Or, if the fourth parameter is 2, then
** the connection being passed as the second parameter is being closed. The
** third parameter is passed NULL in this case. An example of using this
** configuration option can be seen in the "test_sqllog.c" source file in
** the canonical SQLite source tree.</dd>
**
** [[SQLITE_CONFIG_MMAP_SIZE]]
** <dt>SQLITE_CONFIG_MMAP_SIZE
** <dd>SQLITE_CONFIG_MMAP_SIZE takes two 64-bit integer (sqlite3_int64) values
** that are the default mmap size limit (the default setting for
** [PRAGMA mmap_size]) and the maximum allowed mmap size limit.
** The default setting can be overridden by each database connection using
** either the [PRAGMA mmap_size] command, or by using the
** [SQLITE_FCNTL_MMAP_SIZE] file control. The maximum allowed mmap size
** cannot be changed at run-time. Nor may the maximum allowed mmap size
** exceed the compile-time maximum mmap size set by the
** [SQLITE_MAX_MMAP_SIZE] compile-time option.
** If either argument to this option is negative, then that argument is
** changed to its compile-time default.
**</dl>

*/

Found in path(s):
*/opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
ftjl2WH1/sqlite-src-3071700.zip-cosi-expand-archive-kRmLF99B/sqlite-src-3071700/src/sqlite.h.in
No license file was found, but licenses were detected in source scan.

%define name sqlite
%define version SQLITE_VERSION
%define release 1

Name: %{name}
Summary: SQLite is a C library that implements an embeddable SQL database engine
Version: %{version}
Release: %{release}
Source: %{name}-%{version}.tar.gz
Group: System/Libraries
URL: http://www.sqlite.org/
License: Public Domain
BuildRoot: %{_tmppath}/%{name}-%{version}-root

%description
SQLite is a software library that implements a self-contained, serverless, zero-configuration, transactional SQL database engine. Programs that link with the SQLite library can have SQL database access without running a separate RDBMS process. The distribution comes with a standalone command-line access program (sqlite) that can be used to administer an SQLite database and which serves as an example of how to use the SQLite library.

%package -n %{name}-devel
Summary: Header files and libraries for developing apps which will use sqlite
Group: Development/C
Requires: %{name} = %{version}-%{release}

%description -n %{name}-devel
The sqlite-devel package contains the header files and libraries needed to develop programs that use the SQLite database library.

%prep
%setup -q -n %{name}

%build
CFLAGS="-%optflags -DNDEBUG=1" CXXFLAGS="-%optflags -DNDEBUG=1" ./configure --prefix=%{_prefix}
make
make doc

%install
install -d $RPM_BUILD_ROOT/%{_prefix}
install -d $RPM_BUILD_ROOT/%{_prefix}/bin
install -d $RPM_BUILD_ROOT/%{_prefix}/include
install -d $RPM_BUILD_ROOT/%{_prefix}/lib
make install prefix=$RPM_BUILD_ROOT/%{_prefix}

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig
%clean
rm -fr $RPM_BUILD_ROOT
%files
%defattr(-, root, root)
%{_libdir}/*.so*
%{_bindir}/*
%files -n %{name}-devel
%defattr(-, root, root)
%{_libdir}/pkgconfig/sqlite3.pc
FOR IMMEDIATE RELEASE:

SQLite Consortium Launches With Mozilla And Symbian As Charter Members

Charlotte, North Carolina - December 12, 2007 - The SQLite Consortium, a new membership association dedicated to maintaining SQLite as a fully open and independent product, was formally announced today. Mozilla and Symbian Ltd. have joined the SQLite Consortium as charter members.

SQLite is a compact, high efficiency, high reliability, embeddable SQL database engine. The source code to SQLite is in the public domain and is available with no associated fees. SQLite is the most deployed SQL database engine in the world and is currently used in a wide range of commercial software products and electronic devices from leading manufacturers. SQLite is found today in many mobile phones, MP3 players, set-top boxes, and PCs.

The mission of the SQLite Consortium is to continue developing and enhancing SQLite as a product that anyone may use without paying royalties or licensing fees. Members of the SQLite Consortium provide funding to enable this mission and in return receive enterprise-level technical support. Technical control and direction of SQLite remains entirely with the SQLite developers.

Mozilla, developer of the popular open-source Firefox web browser, and Symbian, the market-leading open operating system for advanced data-enabled smartphones, both deploy the SQLite database engine in their products. As charter members of the Consortium, Mozilla and Symbian are ensuring the development and support of SQLite as a freely accessible and public domain software asset.

"SQLite has become a popular embedded database because it is lightweight, fast, and open source," said Michael Schroepfer, Vice President of Engineering, Mozilla. "As a charter member of the SQLite Consortium, Mozilla is excited to help ensure SQLite remains a vibrant and open technology, in line with our mission to promote.
choice and innovation on the Internet."</p>

<p>"The SQLite Consortium will help set the standards for database management which are essential in smartphone functionality and will also help create a pool of developers, highly-skilled in SQLite for future mobile phone development," said Bruce Carney, Director, Developer Programmes & Services, Symbian. "Our involvement with the SQL Consortium not only demonstrates Symbian's commitment to open standards in the industry, but as mobile phones become increasingly powerful and smartphones become increasingly popular, we are focused on ensuring that desktop developers, who move to the mobile space, have the easiest and most productive experience possible." </p>

<p>SQLite is a winner of the 2005 Google/O'Reilly Open Source Award. Additional information regarding the SQLite Consortium is available at the SQLite website, http://www.sqlite.org/.</p>

<p><center><b>About SQLite</b></center></p>

<p>SQLite is a software library that implements a self-contained, embeddable, serverless, zero-configuration, transactional SQL database engine. The code for SQLite is in the public domain and is free for any use, commercial or private. SQLite is currently found in countless software titles and electronic devices.</p>

<p>SQLite was originally developed and released 2000 by Dr. D. Richard Hipp. The code continues to be maintained and enhanced by an international team of developers under Hipp's direction.</p>

<p>CONTACT INFORMATION:<br>SQLite Consortium<br>Dr. D. Richard Hipp<br>6200 Maple Cove Lane<br>Charlotte, NC 28269<br>Email: drh@sqlite.org<br>http://www.sqlite.org<br>Tel: +1.704.948.4565</p>

<p><b>About Mozilla</b></p>

<p>Mozilla is a global community dedicated to building free, open source products and technologies that improve the online experience for people everywhere.
Mozilla works in the open with a highly disciplined, transparent and cooperative development process, under the umbrella of the non-profit Mozilla Foundation. As a wholly owned subsidiary, the Mozilla Corporation organizes the development and marketing of Mozilla products. This unique structure has enabled Mozilla to financially support and cultivate competitive, viable community innovation. For more information, visit www.mozilla.com.

Contact Information:
Mozilla Corporation
Jessica Waight
Tel: +1.415.345.4754
Email: jwaight@outcastpr.com

About Symbian Limited
Symbian is a software licensing company that develops and licenses Symbian OS, the market-leading open operating system for advanced, data-enabled mobile phones known as smartphones.

Symbian licenses Symbian OS to the world’s leading handset manufacturers and has built close co-operative business relationships with leading companies across the mobile industry. During Q3 2007, 20.4 million Symbian smartphones were sold worldwide to over 250 major network operators, bringing the total number of Symbian smartphones shipped up to 30 September 2007 to 165 million.

Symbian has its headquarters in London, United Kingdom, with offices in the United States, United Kingdom, Asia (India, P.R. China, and Korea) and Japan. For more information, please visit www.symbian.com.

Contact Information:
Symbian Global Press Office
Karen Hamblen
+44 207 154 1707
press@symbian.com

SQLite is high-quality, public domain software. The goal of members can also request their own private, proprietary extensions.

Found in path(s):

No license file was found, but licenses were detected in source scan.
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a> and so many groups use SQLite

Found in path(s):
No license file was found, but licenses were detected in source scan.

<h3>Proprietary SQLite Extensions</h3>
<a href="copyright.html">public domain</a>. But there also exist proprietary, licensed extensions to SQLite, written and maintained. You are welcomed to use SQLite in closed source, proprietary, and/or

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 October 1
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
##
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module, and in particular
# the Porter stemmer.
#
# $Id: fts1porter.test,v 1.5 2006/10/03 19:37:37 drh Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
if capable !fts1 {
    finish_test
    return
}

# Test data for the Porter stemmer. The first word of each line
# is the input. The second word is the desired output.
# This test data is taken from http://www.tartarus.org/martin/PorterStemmer/
# There is no claim of copyright made on that page, but you should
# probably contact the author (Martin Porter - the inventor of the
# Porter Stemmer algorithm) if you want to use this test data in a
# commercial product of some kind. The stemmer code in FTS1 is a
# complete rewrite from scratch based on the algorithm specification
# and does not contain any code under copyright.

set porter_test_data {
  a    a
  aaron aaron
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  abandon abandon
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  abase abas
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  abate abat
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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  58940
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# Create a full-text index to use for testing the stemmer.
#
db close
sqlite3 db :memory:
db eval {
  CREATE VIRTUAL TABLE t1 USING fts1(word, tokenize Porter);
}

foreach {pfrom pto} $porter_test_data {
do_test fts1porter-$pfrom {
  execsql {
    DELETE FROM t1_term;
    DELETE FROM t1_content;
    INSERT INTO t1(word) VALUES($pfrom);
    SELECT term FROM t1_term;
  }
} $pto
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.
procset Adobe_CoolType_Utility_MAKEOCF 1.23 0
procset Adobe_CoolType_Utility_T42 1.0 0
procset Adobe_AGM_Image 1.0 0

Found in path(s):
* %%BeginResource
No license file was found, but licenses were detected in source scan.

<p>SQLite itself is in the <a href="copyright.html">public domain</a> and can be used for any purpose. But TH3 is proprietary and requires a license.</p>

Found in path(s):
No license file was found, but licenses were detected in source scan.

<dd><p>The psow query parameter works with the default windows and unix VFSes but might be a no-op for other proprietary or non-standard VFSes.</p>

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS1 module.
#
#$Id: fts1c.test,v 1.11 2006/10/04 17:35:28 drh Exp$
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS1 is defined, omit this file.
ifcapable !fts1 {
    finish_test
    return
}
# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.

```
do_test fts1c-1.1 {
   db eval {
      CREATE VIRTUAL TABLE email USING fts1([from],[to],subject,body);
      BEGIN TRANSACTION;
      INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

      The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

      ?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
      ?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
      ?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

      Please see example below:

      Parent’s Settings:
      Minimum: 5000
      Increment: 1000

      Volume on Autohedge transaction | Volume Hedged
      -------------------------------|------------------
      1     - 249900                   |
      2500 - 54995000                  |
      5500 - 64996000                  |
      INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
      If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);
      INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

      Employee Name: Christopher F. Calger
      Status last changed by: Mollie E. Gustafson Ms
      Expense Report Name: CC02.06.02
      Report Total: $3,972.93
      Amount Due Employee: $3,972.93

      To approve this expense report, click on the following link for Concur Expense.
```
http://expensexms.enron.com);
INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,

Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big.... http://biz.yahoo.com/r/010129/n29305829.html);
INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark');
INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', 'The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent:Tuesday, October 16, 2001 3:42 PM
To:Carter, Karen E.
Subject:FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai
Sent:Friday, September 21, 2001 8:33 PM
Subject:Producers Newsletter 9-24-2001

');
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com', 'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would be to offer up the Falcon for their use; however, given the tight time frame and your recent visit with Mr. Fox that it would be difficult for either you or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com', 'lindy.donoho@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,
Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent: Wednesday, September 26, 2001 7:50 AM
To: Fenceroy, LaChandra
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy');
INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well. Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!

Here is the information on staffing and outside services. Call if you need anything else.

Jim

')

ATTACH file: McCartyMerit.xls

ATTACH file: mccartyBonusCommercial_UnP.xls

IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL
INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE.
YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-
MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS
E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ‘);

INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com',
'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW !

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610’);

INSERT INTO email([from],[to],subject,body) VALUES('chris.germany@enron.com',
'ingrid.immer@williams.com', 'Re: About St Pauls', 'Sounds good to me. I bet this is next to the Warick?? Hotel.

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: ""chris.germany@enron.com"" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place.? What do you think about going here Christmas
eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m.,
among others.
Let me know. ?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrrading.com,
kmccrea@sablaw.com, thompson@wrightlaw.com,','Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-
Revised_Reply_Brief___Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com,
lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00
AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy
chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com',
'rwolkwitz@powermerchants.com', '', '
Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o’ourke@enron.com', 'k..allen@enron.com,
randy.bhatia@enron.com, frank.ermis@enron.com,','TRV Notification: (West VaR - 11/07/2001)', 'The report
named: West VaR
_name=WEST&toe_hide=1&sTV1=2&TV1Exp=Y&current_efct_date=11/07/2001>, published as of 11/07/2001 is
now available for viewing on the website.');
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com,
ggreen2@txu.com, timpowell@txu.com,’ 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ;
110.000 / HPL IFERC
LS HPL LSK IC       30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer
practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??
Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com',
'Huber Internal Memo', 'Please look at this. I didn”t know how deep to go with the desk. Do you think this works.
');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', 'George,
Give me a call and we will further discuss opportunities on the 13st floor.
Thanks,

---

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 58964
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');

INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan, The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.');

INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '---------------------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ----------------------')
Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
')

Thanks
---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast
WK
);
INSERT INTO email([from],[to],subject,body) VALUES('david.forster@enron.com', 'eol.wide@enron.com', 'Change to Stack Manager', 'Effective immediately, there is a change to the Stack Manager which will affect any Inactive Child.

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave');
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,

I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert
We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.
SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com', 'mark.bernstein@enron.com', '', 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA"s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!
Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com, karen.denne@enron.com,', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI, the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----
"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are
doing?

Marcie


');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -
Attached are our comments and suggested changes. Please call to review.

On the time line for completion, we have four critical steps to complete:
Finalize market analysis to refine business case, specifically projected revenue stream
Complete counterparty surveying, including targeting 3 CPs for letters of intent
Review Enron asset base for potential reuse/ licensing
Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ');

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc:
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

');

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: " - *Koch, Kent" <kkoch@nisource.com>, " -
"*Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn"
<lburke@nisource.com>
c: " - *Heckathorn, Tom" <theckathorn@nisource.com>

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard
Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com, mcguinn.ian@enron.com, mcguinn.stephen@enron.com,’, ‘email address change’, ‘Hello all.

I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn’);
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com’, ‘Flat Panels’, ’Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley’);
INSERT INTO email([from],[to],subject,body) VALUES('sara.davidson@enron.com', 'john.schwartenburg@enron.com, scott.dieball@enron.com, recipients@enron.com,’, ’2001 Enron Law Conference (Distribution List 2)’, ’ Enron Law Conference

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

’);
INSERT INTO email([from],[to],subject,body) VALUES('tori.kuykendall@enron.com', 'heath.b.taylor@accenture.com’, ’Re:’, ’hey - thats funny about john - he definitely remembers him - i’ll call pat
and let him know - we are coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');

I'll get it done today.

DG    3-9573

From: Bryce Baxter                     06/12/2000 07:15 PM
To: Darron C Giron/HOU/ECT@ECT
cc: 
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you
complete her feedback by end of business Wednesday? It will really help me
in the PRC process to have your input. Thanks.

');

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!

Casey'};

Please see the attached.
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

');
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');
INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

');
INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.');
INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy');
INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/');
INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)). This is assuming we wrap this up on Tuesday.'
Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip;

I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not
     included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com');

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY”s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca
-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com',
'william.brADFORD@enron.com, debbie.bracket@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy',
'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy,
L.P., effective February 1, 2001, with the surviving entity being El Paso
Merchant Energy, L.P. We currently have ISDA Master Agreements with both
counterparties. Please see the attached memo regarding the existing Masters
and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE:
What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

File: Netco Trader Matrix.xls

Centana, 'Talked to Chip. We do need Cash Committee approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:

Justin Boyd told me that you can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.

F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.

Thanks!
Best regards

Diana Seifert
EOL PCG;

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'mark.whitt@enron.com', '<Concur Expense Document> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com);

INSERT INTO email([from],[to],subject,body) VALUES('kevin.hyatt@enron.com', '', 'Technical Support', 'Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.);

INSERT INTO email([from],[to],subject,body) VALUES('geoff.storey@enron.com', 'dutch.quigley@enron.com', 'RE:', 'duke contact?

-----Original Message-----
From: Quigley, Dutch
Sent:Wednesday, October 31, 2001 10:14 AM

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 58980
To: Storey, Geoff
Subject: RE:

bp corp
Albert LaMore
281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah
713-767-5374
Relaint
Steve McGinn
713-207-4000

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPPI

');

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3;  No ancillary schedules awarded.
Variance detected.
Variance detected in Load schedule.

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPPI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com',


'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', '"Lite Bytz RSVP,"
This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyzttoolzprint.jpg');
COMMIT;
} {}
do_test fts1c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
}

do_test fts1c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"'
  }
}

do_test fts1c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
}

do_test fts1c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
}

do_test fts1c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
}

# Some simple tests of the automatic "offsets(email)" column. In the sample data set above, only one message, number 20, contains the words "gas" and "reminder" in both body and subject.
#

do_test fts1c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
}

do_test fts1c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}

do_test fts1c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
}
do_test fts1c-2.4 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE subject MATCH 'gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

do_test fts1c-2.5 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts1c-3.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH 'child product' AND +rowid=32
  }
} {32 {3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7}}

do_test fts1c-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH '"child product"'
  }
} {32 {3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7}}

# Snippet generator tests
#
do_test fts1c-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}
do_test fts1c-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
} {{<b>...</b> place.? What do you think about going here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}
do_test fts1c-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <b>Deal</b><b>Sheet</b> intent
  Review Enron asset base for <b>potential</b>/ licensing
  Contract negotiations <b>...</b> }}
do_test fts1c-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent
  Review Enron asset base for <<<potential>>>/ licensing
  Contract negotiations }}
do_test fts1c-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts1c-4.6 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'chris is here'
  }
} {{<b>chris</b>.germany@enron.com <b>...</b> Sounds good to me. I bet this <b>is</b> next to the Warick?? Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b> }}
do_test fts1c-4.7 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH "pursuant to"
  }
} {{Erin:
  Pursuant to your request, attached are the Schedule to <b>...</b> }}
do_test fts1c-4.8 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'ancillary load davis'
  }
} {{pete.<b>davis</b>@enron.com <b>...</b> Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded.
  Variances detected.
  Variances detected in <b>Load</b> schedule.
PARSING 

# Combinations of AND and OR operators:
#
do_test fts1c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
} {{matt.smith@enron.com six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2 six reports:

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

Sources are in the public domain.
Rather than using fopen() to write XML or some proprietary format into

Found in path(s):
No license file was found, but licenses were detected in source scan.

)putinterval

Found in path(s):
* 1 index 0(BadFont
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# May you do good and not evil.
# May you find forgiveness for yourself and forgive others.
# May you share freely, never taking more than you give.
#
#*************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this script is testing the FTS3 module.
#
# $Id: fts3ac.test,v 1.1 2007/08/20 17:38:42 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS3 is defined, omit this file.
if capable !fts3 {
    finish_test
    return
}

# Create a table of sample email data. The data comes from email
# archives of Enron executives that was published as part of the
# litigation against that company.
#
do_test fts3ac-1.1 {
    db eval {
        CREATE VIRTUAL TABLE email USING fts3([from],[to],subject,body);
        BEGIN TRANSACTION;
        INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com,
traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following
changes will be made to the Autohedge functionality on EnronOnline.

The volume on the hedge will now respect the minimum volume and volume increment settings on the parent
product. See rules below:

?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
?If the transaction volume on the child is more than half the parent”s minimum volume but less than half the volume
increment on the parent, the hedge will volume will be the parent’s minimum volume.
?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

Please see example below:
Parent's Settings:
Minimum: 5000
Increment: 1000

Volume on Autohedge transaction
Volume Hedged
1 - 24990
2500 - 54995000
5500 - 64996000;

INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
If it's ok with everyone's needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o'clock hour just let me know; I'll be more than willing to stay.);

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '"<Concur Expense Document> - CC02.06.02', 'The following expense report is ready for approval:

Employee Name: Christopher F. Calger
Status last changed by: Mollie E. Gustafson Ms
Expense Report Name: CC02.06.02
Report Total: $3,972.93
Amount Due Employee: $3,972.93

To approve this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/);

INSERT INTO email([from],[to],subject,body) VALUES('jeff.duff@enron.com', 'julie.johnson@enron.com', 'Work request', 'Julie,
Could you print off the current work request report by 1:30 today?

Gentlemen,
I'd like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD');

INSERT INTO email([from],[to],subject,body) VALUES('v.weldon@enron.com', 'gary.l.carrier@usa.dupont.com, scott.joyce@bankofamerica.com', 'Enron News', 'This could turn into something big....
http://biz.yahoo.com/rt/010129/n29305829.html');

INSERT INTO email([from],[to],subject,body) VALUES('mark.haedicke@enron.com', 'paul.simons@enron.com', 'Re: First Polish Deal!', 'Congrats! Things seem to be building rapidly now on the Continent. Mark);

INSERT INTO email([from],[to],subject,body) VALUES('e..carter@enron.com', 't..robinson@enron.com', 'FW: Producers Newsletter 9-24-2001', '
The producer lumber pricing sheet.
-----Original Message-----
From: Johnson, Jay
Sent: Tuesday, October 16, 2001 3:42 PM  
To: Carter, Karen E.  
Subject: FW: Producers Newsletter 9-24-2001

-----Original Message-----
From: Daigre, Sergai  
Sent: Friday, September 21, 2001 8:33 PM  
Subject: Producers Newsletter 9-24-2001

'):
INSERT INTO email([from],[to],subject,body) VALUES('david.delainey@enron.com', 'kenneth.lay@enron.com',
'Greater Houston Partnership', 'Ken, in response to the letter from Mr Miguel San Juan, my suggestion would
be to offer up the Falcon for their use; however, given the tight time frame
and your recent visit with Mr. Fox that it would be difficult for either you
or me to participate.

I spoke to Max and he agrees with this approach.

I hope this meets with your approval.

Regards
Delainey');
INSERT INTO email([from],[to],subject,body) VALUES('lachandra.fenceroy@enron.com',
'lindy.dono@enron.com', 'FW: Bus Applications Meeting Follow Up', 'Lindy,

Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne  
Sent: Wednesday, September 26, 2001 7:50 AM  
To: Fenceroy, LaChandra  
Subject: FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business
users?

-----Original Message-----
From: Koh, Wendy
Sent: Tuesday, September 25, 2001 2:41 PM
To: Bisbee, Joanne
Subject: Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy;

INSERT INTO email([from],[to],subject,body) VALUES('danny.mccarty@enron.com', 'fran.fagan@enron.com', 'RE: worksheets', 'Fran,
If Julie’s merit needs to be lump sum, just move it over to that column. Also, send me Eric Gadd’s sheets as well.
Thanks.
Dan

-----Original Message-----
From: Fagan, Fran
Sent: Thursday, December 20, 2001 11:10 AM
To: McCarty, Danny
Subject: worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219

<< File: McCartyMerit.xls >> << File: mccartyBonusCommercial_UnP.xls >>

');

INSERT INTO email([from],[to],subject,body) VALUES('bert.meyers@enron.com', 'shift.dl-portland@enron.com', 'OCTOBER SCHEDULE', 'TEAM,

PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT);

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com', 'john.arnold@enron.com, bilal.bajwa@enron.com, john.griffith@enron.com', 'TRV Notification: (NG - PROPT P/L - 09/27/2001)', 'The report named: NG - PROPT P/L <http://trv.corp.enron.com/linkFromExcel.asp?report_cd=11&report_name=NG+-+PROPT+P/L&category_cd=5&category_name=FINANCIAL&toc_hide=1&sTV1=5&TV1Exp=Y&current_efct_d ate=09/27/2001>, published as of 09/27/2001 is now available for viewing on the website.);

INSERT INTO email([from],[to],subject,body) VALUES('patrice.mims@enron.com', 'calvin.eakins@enron.com', 'Re: Small business supply assistance', 'Hi Calvin
I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!

INSERT INTO email([from],[to],subject,body) VALUES('legal <.hall@enron.com>', 'stephanie.panus@enron.com', 'Termination update', 'City of Vernon and Salt River Project terminated their contracts. I will fax these notices to you.');
INSERT INTO email([from],[to],subject,body) VALUES('d..steffes@enron.com', 'richard.shapiro@enron.com', 'EES / ENA Government Affairs Staffing & Outside Services', 'Rick --

Here is the information on staffing and outside services. Call if you need anything else.

Jim

');
INSERT INTO email([from],[to],subject,body) VALUES('gelliott@industrialinfo.com', 'pcopello@industrialinfo.com', 'ECAAR (Gavin), WSCC (Diablo Canyon), & NPCC (Seabrook)', 'Dear Power Outage Database Customer,

Attached you will find an excel document. The outages contained within are forced or rescheduled outages. Your daily delivery will still contain these outages.

In addition to the two excel documents, there is a dbf file that is formatted like your daily deliveries you receive nightly. This will enable you to load the data into your regular database. Any questions please let me know. Thanks.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com

THE INFORMATION CONTAINED IN THIS E-MAIL IS LEGALLY PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION, OR COPY OF THIS E-MAIL TO UNAUTHORIZED ENTITIES IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS E-MAIL IN ERROR, PLEASE DELETE IT.

- OUTAGE.dbf
- 111201R.xls
- 111201.xls ');
INSERT INTO email([from],[to],subject,body) VALUES('enron.announcements@enron.com', 'all_ena_egm_eim@enron.com', 'EWS Brown Bag', 'MARK YOUR LUNCH CALENDARS NOW!

You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2
"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "'chris.germany@enron.com'" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.

Let me know.?? ii

- About St Pauls.url

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com, kmccrea@sablaw.com, thompson@wrightlaw.com, ', 'Reply Brief filed July 31, 2000', ', - CPUC01-#76371-v1-Revised_Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com, lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000, E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC. Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com, 'rwolkwitz@powermerchants.com', ",, '

Here is a goody for you');
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o"rourke@enron.com', 'k..allen@enron.com,

INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com, ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap    10.000 / Enron ; 110.000 / HPL IFERC

LS HPL LSK IC    30.000 / Enron;

INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kkw816@aol.com', 'soccer practice', 'Kathy-

Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');

INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com', 'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works. ');

');

INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', '', 'George,

Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,

JMForney

3-7160');

INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');

INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.

"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: "''Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhhs.org>, "Marymankarious (E-mail)"
<marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url

')

Thanks

---------------------- Forwarded by Errol McLaughlin/CORP/Enron on 12/20/2000
To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
}

An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300
I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc:
Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760"
Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric'

We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA’s in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben'}
Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?

Marcie


Who is General Brinks?

Fletch);

Here are the documents that Peter has prepared for Mark Frevert.

Nailia

------------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001
16:36 -------------------------
Nailia Dindarova  
25/06/2001 15:36  
To: Michael Brown/Enron@EUEnronXGate  
c: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT  

Subject: Documents for Mark Frevert (on EU developments and lessons from California)  

Michael,  

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.  

Nailia  

');  
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com',  
'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -  

Attached are our comments and suggested changes. Please call to review.  

On the time line for completion, we have four critical steps to complete:  
Finalize market analysis to refine business case, specifically projected revenue stream  
Complete counterparty surveying, including targeting 3 CPs for letters of intent  
Review Enron asset base for potential reuse/ licensing  
Contract negotiations  

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.  

We will send our cut at the actual time line here shortly. Thanks,  

Peggy  

(See attached file: accenture-dealpoints v2.doc)  
- accenture-dealpoints v2.doc  

');  
INSERT INTO email([from],[to],subject,body) VALUES('thomas.martin@enron.com', 'thomas.martin@enron.com',  

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 58999
Thomas A Martin  
10/11/2000 03:55 PM  
To: Patrick Wade/HOU/ECT@ECT  
cc:  
Subject: Re: Guadalupe Power Partners LP  

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or KatyTailgate GD at buyers option three days prior to NYMEX close.

');

agoddard@nisource.com on 03/08/2001 09:16:57 AM  
To: " - *Koch, Kent" <kkoch@nisource.com>, " - *Millar, Debra" <dmillar@nisource.com>, " - *Burke, Lynn" <lburke@nisource.com>  
cc: " - *Heckathorn, Tom" <theckathorn@nisource.com>  
Subject: Columbia Distribution’s Capacity Available for Release - Sum

Attached is Columbia Distribution’s notice of capacity available for release  

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

');

INSERT INTO email([from],[to],subject,body) VALUES('judy.townsend@enron.com', 'dan.junek@enron.com, chris.germany@enron.com', 'Columbia Distribution''s Capacity Available for Release - Sum', '---------------------- Forwarded by Judy Townsend/HOU/ECT on 03/09/2001 11:04 AM ---------------------------

--- 2001Summer.doc

');

INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com', 'Split Rock Energy LLC', 'We have received the executed
EEI contract from this CP dated 12/12/2000.
Copies will be distributed to Legal and Credit.';
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com,
crow@millernash.com, michalearly@earthlink.net,', 'Oral Argument Request', ', - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com', 'Did you come in town this wk end..... My new number at our house is :
713-668-3712...... my cell # is 281-381-7332
the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info', ')
------Original Message------
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com

Take Care,

Karim.

');
INSERT INTO email([from],[to],subject,body) VALUES('bjm30@earthlink.net', 'mcguinn.k@enron.com,
mcguinn.ian@enron.com, mcguinn.stephen@enron.com,', 'email address change', 'Hello all.
I haven"t talked to many of you via email recently but I do want to give you
my new address for your email file:

 bjm30@earthlink.net

I hope all is well.

Brian McGuinn');
INSERT INTO email([from],[to],subject,body) VALUES('shelley.corman@enron.com', 'steve.hotte@enron.com', 'Flat Panels', 'Can you please advise what is going on with the flat panels that we had planned to distribute to our gas
logistics team. It was in the budget and we had the okay, but now I"m hearing there is some hold-up & the units are stored on 44.
Shelley');
San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT

Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you
complete her feedback by end of business Wednesday? It will really help me in the PRC process to have your input. Thanks.

');
INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com', 'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');
INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com', 'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com.', 'Postings', 'Please see the attached.

ds

');
INSERT INTO email([from],[to],subject,body) VALUES('mcominsky@aol.com', 'cpatman@bracepatt.com, james_derrick@enron.com', 'Jurisprudence Luncheon', 'Carrin & Jim --

It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.
Martin B. Cominsky  
Director, Southwest Region  
Anti-Defamation League  
713/627-3490, ext. 122  
713/627-2011 (fax)  
MCominsky@aol.com;

INSERT INTO email([from],[to],subject,body) VALUES('phillip.love@enron.com', 'todagost@utmb.edu, gbsonnta@utmb.edu', 'New President', 'I had a little bird put a word in my ear. Is there any possibility for Ben Raimer to be Bush’s secretary of HHS? Just curious about that infamous UTMB rumor mill. Hope things are well, happy holidays. PL');

INSERT INTO email([from],[to],subject,body) VALUES('marie.heard@enron.com', 'ehamilton@fna.com', 'ISDA Master Agreement', 'Erin:

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie

Marie Heard  
Senior Legal Specialist  
Enron North America Corp.  
Phone:  (713) 853-3907  
Fax:  (713) 646-3490  
marie.heard@enron.com

');

INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

');

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,  
Karolyn Criado  
3-9441

');

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com',)
edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our
Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail
risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.

I am at home with a sick baby. (Lots of fun!) I will call you about this
tomorrow.

Stacy);

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248
($36090(principal) + $158 (accrued interest)).
This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.

Phillip);

I placed the adjusted L/R Balance on the Enronwest site. It is under the ”Staff/Kourtney Nelson”. There are two
links:

1) ”Adj L_R” is the same data/format from the weekly strategy meeting.
2) ”New Gen 2001_2002” link has all of the supply side info that is used to calculate the L/R balance
   -Please note the Data Flag column, a value of ”3” indicates the project was cancelled, on hold, etc and is not
   included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please.
Also, James Bruce is working to get his gen report on the web. That will help with your access to information on
new gen.

Please let me know if you have any questions or feedback,

Kourtney
I reviewed NY’s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca

<< File: enrontccs.xls >>

Let me know if you see any differences.

Paul

X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.brADFORD@enron.com, debbie.brackett@enron.com, 'Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, ')

-----Original Message-----
From: Kenne, Dawn C.
Sent: Wednesday, February 06, 2002 11:50 AM
To: Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>
');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490);
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', ",'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY:APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description:);
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,
Justin Boyd told me that your can help me with questions regarding Chile.
We got a request for guest access through MG.
The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks!

Best regards

Diana Seifert
EOL PCG');
INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'mark.whitt@enron.com', '<<Concur Expense Document>> - 121001', 'The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensedxms.enron.com');
Outside the U.S., please refer to the list below:

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962
running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

Coral
Jeff Whitnah
713-767-5374
Reliant
Steve McGinn
713-207-4000

INSERT INTO email([from],[to],subject,body) VALUES('pete.davis@enron.com', 'pete.davis@enron.com', 'Start Date: 4/22/01; HourAhead hour: 3; <CODESITE>', 'Start Date: 4/22/01; HourAhead hour: 3; No ancillary schedules awarded.
Variances detected.
Variances detected in Load schedule.

LOG MESSAGES:

PARSING FILE --> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred: 1.92 / Final: 1.89)
TRANS_TYPE: FINAL
LOAD_ID: PGE4
MKT_TYPE: 2
TRANS_DATE: 4/22/01
SC_ID: EPMI

');
INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com', 'john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week--I suspect my silence (not only to you, but others) after our phone call is a result of the week. I''m seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week''s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event--so bring your lunch and we will provide cookies and drinks.
Click below for more details.
http://home.enron.com:84/messaging/litebytztoolzprint.jpg');
COMMIT;
}
} {}
###############################################################################
# Everything above just builds an interesting test database. The actual
# tests come after this comment.
###############################################################################
do_test fts3ac-1.2 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark'
}
} {6 17 25 38 40 42 73 74}
do_test fts3ac-1.3 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'susan'
}
} {24 40}
do_test fts3ac-1.4 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark susan'
}
} {40}
do_test fts3ac-1.5 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'susan mark'
}
} {40}
do_test fts3ac-1.6 {
execsql {
SELECT rowid FROM email WHERE email MATCH '"mark susan"'
}
} {}
do_test fts3ac-1.7 {
execsql {
SELECT rowid FROM email WHERE email MATCH 'mark -susan'
}
} {6 17 25 38 42 73 74}
do_test fts3ac-1.8 {
execsql {
SELECT rowid FROM email WHERE email MATCH '-mark susan'
}
} {24}
do_test fts3ac-1.9 {

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 59011


execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
}
}
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
data set above, only one message, number 20, contains the words
"gas" and "reminder" in both body and subject.
#
do_test fts3ac-2.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'gas reminder'
    }
}
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.2 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'subject:gas reminder'
    }
}
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts3ac-2.3 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE email MATCH 'body:gas reminder'
    }
}
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts3ac-2.4 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE subject MATCH 'gas reminder'
    }
}
} {20 {2 0 42 3 2 1 54 8}}
do_test fts3ac-2.5 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'gas reminder'
    }
}
} {20 {3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}

# Document 32 contains 5 instances of the world "child". But only
# 3 of them are paired with "product". Make sure only those instances
# that match the phrase appear in the offsets(email) list.
#
do_test fts3ac-3.1 {
    execsql {
        SELECT rowid, offsets(email) FROM email
        WHERE body MATCH 'child product' AND +rowid=32
do_test fts3ac-3.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE body MATCH "child product"
  }
}

do_test fts3ac-4.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
}

do_test fts3ac-4.2 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'christmas candlelight'
  }
}

do_test fts3ac-4.3 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
}

do_test fts3ac-4.4 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'deal sheet potential reuse'
  }
}

do_test fts3ac-4.5 {
  execsql {
    SELECT snippet(email,'<<<','>>>',' ') FROM email
    WHERE email MATCH 'first things'
  }
}

do_test fts3ac-4.6 {
  execsql {
    SELECT snippet(email) FROM email
  }
}
WHERE email MATCH 'chris is here'
}
}

WHERE email MATCH 'pursuant to'
}

WHERE email MATCH 'ancillary load davis'
}

WHERE email MATCH 'questar enron OR com'
}

WHERE email MATCH 'enron OR com questar'
}

# Combinations of AND and OR operators:
#
do_test fts3ac-5.1 {
execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
}
}

# Test a problem reported on the mailing list.
#
do_test fts3ac-6.1 {
execsql {
    CREATE VIRTUAL TABLE ft USING fts3(one, two);
    INSERT INTO ft VALUES('', 'foo');
    INSERT INTO ft VALUES('foo', 'foo');
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
} {{1 0 0 3} {0 0 0 3 1 0 0 3}}
do_test fts3ac-6.2 {
execsql {
    DELETE FROM ft WHERE one = 'foo';
    SELECT offsets(ft) FROM ft WHERE ft MATCH 'foo';
}
} {{1 0 0 3}}

finish_test

Found in path(s):
  No license file was found, but licenses were detected in source scan.
application is free to use the same <a href="#sqlite3">database connection</a> or the

Found in path(s):
  No license file was found, but licenses were detected in source scan.
without a shared lock, other processes are free to modify the database

Found in path(s):
  No license file was found, but licenses were detected in source scan.

Copyright 1997-2006 Adobe Systems Incorporated. All Rights Reserved.

Found in path(s):
* *%%Copyright
  No license file was found, but licenses were detected in source scan.

%%Copyright: Copyright(C)2000-2006 Adobe Systems, Inc. All Rights Reserved.
%%Copyright: Copyright(C)1997-2007 Adobe Systems, Inc. All Rights Reserved.
%%BeginResource: procset Adobe_CoolType_Core 2.31 0
SQLite is open source, and is available in the public domain

<html>
<head>
<title>SQLite Consortium Agreement</title>
</head>
<body bgcolor="white">
<h1 align="center">
SQLite Consortium Agreement
</h1>

<p>This SQLite Consortium Agreement ("Agreement") is made and entered into as of the _____ day of ______________, 2007 ("Effective Date") by and between ______________ (the "Company"), and Hipp, Wyrick & Company, Inc., a Georgia Corporation with headquarters at 6200 Maple Cove Lane, Charlotte, NC ("Hwaci").</p>

<p>WHEREAS, Hwaci is the developer of a serverless, embeddable, public domain SQL database engine available at <a href="http://www.sqlite.org/"><http://www.sqlite.org/</a> ("SQLite"); and</p>

<p>WHEREAS, Company wishes to support the independent development of the SQLite database engine to insure the continuing reliability, vitality, and independence of SQLite, and in connection therewith, Company wishes to provide funds for ongoing research, development, and maintenance of the SQLite code base, operation of the SQLite website, protection and maintenance of the SQLite trademark, as well as for promotion of SQLite at conferences and trade shows; and</p>

<p>WHEREAS, Company wishes to receive benefits in the form of services from Hwaci in consideration for their support of SQLite; and</p>

<p>WHEREAS, Company and Hwaci each wish SQLite to be supported and maintained as an independent, community-driven project, and to ensure the SQLite development team remains independent.</p>
NOW, THEREFORE, in consideration of the mutual promises contained herein, the parties agree as follows:

1.0 Definitions

1.1 SQLite Developers
The "SQLite Developers" are the employees or contractors of Hwaci engaged in the development of SQLite, including without limitation the SQLite Architect.

1.2 SQLite Architect
The "SQLite Architect" is the SQLite Developer with ultimate responsibility and authority over changes and maintenance of the SQLite code. The current SQLite Architect is the original designer and developer of SQLite, D. Richard Hipp. Hwaci may change the SQLite Architect from time to time upon approval by Company.

1.3 Consortium Member
A "Consortium Member" is a company or organization, including but not limited to Company, which has entered into an agreement with Hwaci which is substantially similar to this Agreement.

2.0 Agreement

2.1 Responsibilities And Obligations Of SQLite Developers

2.1.1 General Support
The SQLite Developers shall provide, without limit, timely and accurate answers, advice, and instruction in response to questions and comments from Company about SQLite submitted by email or by telephone at any time day or night.

2.1.2 Debugging Support
The SQLite Developers shall at Company's request provide Company with direct assistance in debugging applications that are built upon or use SQLite. The combined time for Debugging Support and Custom Development for Company is limited to 330 hours per year.

2.1.3 Custom Development
The SQLite Developers shall at the request of Company write new extensions or enhancements to SQLite according to Company's specifications. These extensions and enhancements may be proprietary to Company or open source or with the consent of both Company and the SQLite Architect may...
be folded into the public domain SQLite source tree.
The time devoted to Custom Development for Company is limited 220 hours per year.

<h4>2.1.4 Custom Builds</h4>
The SQLite Developers shall at Company’s request provide Company with specialized builds of SQLite according to Company’s specifications.

<h4>2.1.5 Legacy Support</h4>
The SQLite Developers shall at Company’s request provide support and bug-fix patches for any historical version of SQLite.

<h4>2.1.6 Custom Testing</h4>
The SQLite Developers shall at Company’s request set up and run acceptance tests according Company’s specifications that are specifically designed to exercise SQLite as configured and used by Company. These acceptance tests shall be run and shall pass prior to any release of SQLite.

<h4>2.1.7 Priority Bug Fixes</h4>
The SQLite Developers shall assign highest priority to fixing bugs in SQLite that are reported by Company or in which Company has expressed a specific interest.

<h4>2.1.8 Code Quality</h4>
The SQLite Developers shall at all times keep the SQLite source code well commented and documented and clearly structured and organized so that an experienced and competent programmer can understand it and support it after no more than a few months of study.

<h4>2.1.9 Backwards Compatibility</h4>
The SQLite Developers recognize that Company uses SQLite in mission-critical applications and therefore shall work diligently to ensure continuing bug-free correct operation and backwards compatibility with prior releases.

<h4>2.1.10 Test Coverage</h4>
The SQLite Developers shall maintain the SQLite test suite such that no less than 95% source code coverage is provided.
<h4>2.1.11 Website</h4>
The SQLite Developers shall maintain the SQLite website at http://www.sqlite.org/ in good working order and all SQLite source code shall be made freely available at such website.

<h3>2.2 Responsibilities And Obligations Of The SQLite Architect</h3>

<h4>2.2.1 Private Briefings</h4>
The SQLite Architect shall, at the request of Company, provide Company with private notification and briefings of any new bugs or new features in SQLite that might effect Company's products.

<h4>2.2.2 Direction</h4>
The SQLite Architect shall coordinate the activities of SQLite Developers and shall publish from time to time a roadmap of proposed future changes and enhancements to SQLite.

<h4>2.2.3 Oversight</h4>
The SQLite Architect shall personally review all changes to the SQLite Source Code and take responsibility for the quality and correctness of those changes.

<h4>2.2.4 Continuity</h4>
The initial SQLite Architect shall be the original developer of SQLite, D. Richard Hipp. The role of SQLite Architect shall not be assigned to another during the term of this Agreement except due to the disability of Dr. Hipp and with approval of Company.

<h3>2.3 Responsibilities And Obligations Of Hwaci</h3>

<h4>2.3.1 Employer</h4>
Hwaci shall act as the employer of the SQLite Developers and SQLite Architect and shall make all tax and legal filings and tax withholding required by employers. Hwaci shall provide Company with W-9 information upon request.

<h4>2.3.2 Responsible Party</h4>
All obligations of the SQLite Developers set forth in this agreement are deemed obligations of Hwaci. Hwaci shall recruit,
employ, and supervise SQLite Developers in such a way that the responsibilities and obligations of the SQLite Developers set forth in this agreement are upheld.</p>

<h4>2.3.3 Multiple Developers</h4>
<p>Hwaci shall recruit and employ as many SQLite Developers for as many hours as can be reasonably achieved using the funds received from Consortium Members under this agreement. So that support for SQLite will not be interrupted by the disability or withdrawal of any one SQLite Developer, Hwaci will keep at least two knowledgeable and competent SQLite Developers on staff.</p>

<h4>2.3.4 Mentorship</h4>
<p>Hwaci shall work to encourage independent programmers from around the world to become familiar with SQLite internals so that there will be a pool of talent able to support SQLite in the future.</p>

<h4>2.3.5 Audits</h4>
<p>Hwaci shall keep and maintain complete and accurate records of the use of development funds provided by Company and shall allow Company, or its representative, a certified public accountant mutually acceptable to Hwaci and Company, during office hours and at reasonable intervals, no more than once every 12 months, to inspect and make extracts or copies of such records solely for the purpose of ascertaining Hwaci's compliance with the objectives and requirements of this agreement.</p>

<h4>2.3.6 Disaster Planning</h4>
<p>Hwaci shall maintain backup copies of all SQLite source files and documentation, current and historical, at at least two separate locations separated from each other and from the primary on-line SQLite repository by at least 400 kilometers.</p>

<h4>2.3.7 Trademark</h4>
<p>Hwaci shall maintain ownership of the SQLite trademark and the sqlite.org domain name and shall purchase bandwidth and server space for the http://www.sqlite.org/ website.</p>

<h4>2.3.8 No Take-overs or Buy-outs</h4>
<p>Neither Hwaci nor the SQLite Architect shall relinquish development
control of SQLite during the term of this Agreement, by acquisition or merger or by any other means, except with the consent of Company.

2.3.9 New Consortium Members
New Consortium Members may be accepted into the consortium from time to time under identical terms as this agreement, or under substantially similar terms that have been approved by existing Consortium Members.

2.3.10 Adequate Staff
Hwaci shall recruit and employ a sufficient number of qualified SQLite Developers to easily cover all custom development, debugging, and general support service obligations for all Consortium Members while still providing ample time for the SQLite Developers to engage in general maintenance and extension of SQLite.

2.3.11 Use Of Funds
Hwaci shall use the funds provided hereunder solely for the development and maintenance of SQLite as set forth in this Agreement. Interest on funds received in advance and held in trust will be reinvested and used for the same purposes as the principal.

2.4 Responsibilities And Obligations Of Company

2.4.1 Funding
Company shall provide funding for the ongoing support and maintenance of SQLite as set forth in section 3.0 "Fees".

2.4.2 Copyright Disclaimer
Company acknowledges that SQLite source code and documentation published on the SQLite website is in the public domain and that nothing in this agreement shall change that fact.

3.0 Fees
In consideration of the performance by Hwaci, the SQLite Developers, and the SQLite Architect of the obligations described herein, Company shall pay Hwaci at least US $75,000 per year in advance.
either annually, quarterly, or monthly, at Company's discretion.

<h2>4.0 Confidentiality</h2>

<h3>4.1 Definition of Confidential Information</h3>

"Confidential Information" means any Company proprietary information, technical data, trade secrets or know-how, including, but not limited to, research, product plans, products, services, customers, customer lists, markets, software, developments, inventions, processes, formulas, technology, designs, drawings, engineering, hardware configuration information, marketing, finances or other business information disclosed by Company either directly or indirectly in writing, orally or by drawings or inspection of parts or equipment.

<h3>4.2 Non-Use and Non-Disclosure.</h3>

Hwaci shall not, during or subsequent to the term of this Agreement, use Company's Confidential Information for any purpose whatsoever other than the performance of the Services or disclose Company's Confidential Information to any third party. The parties acknowledge that Confidential Information will remain the sole property of Company. Hwaci shall take all reasonable precautions to prevent any unauthorized disclosure of Confidential Information including, but not limited to, having each employee or consultant of Hwaci, if any, with access to any Confidential Information, execute a nondisclosure agreement containing provisions in Company's favor substantially similar to this Agreement. Confidential Information does not include information that: (i) is known to Hwaci at the time of disclosure to Hwaci by Company as evidenced by written records of Hwaci; (ii) has become publicly known and made generally available through no wrongful act of Hwaci; or (iii) has been received by Hwaci from a third party who is authorized to make such disclosure.

<h4>4.2.1 Disclosure Required by Law</h4>

In the event any Confidential Information is required to be disclosed by Hwaci under the terms of a valid and effective subpoena or order issued by a court of competent jurisdiction, or by a demand or information request from an executive or administrative agency or other governmental authority, Hwaci shall, unless prohibited by the terms of a subpoena, order, or demand, promptly notify Company of the existence, terms and circumstances surrounding such demand or request, shall consult with Company on the advisability of taking legally available steps to resist or narrow such demand or request, and, if disclosure of such Confidential Information is required, shall exercise
its reasonable best efforts to narrow the scope of disclosure and obtain an order or other reliable assurance that confidential treatment will be accorded to such Confidential Information. To the extent that Hwaci is prohibited from notifying Company of a subpoena, order or demand, by the terms of same, Hwaci shall exercise its reasonable efforts to narrow the scope of disclosure.

<h3>4.3 Return of Materials.</h3>

<p>Upon the termination of this Agreement, or upon Company’s earlier request, Hwaci shall deliver to Company all of Company’s property or Confidential Information that Hwaci may have in Hwaci’s possession or control.</p>

<h2>5.0 Intellectual Property</h2>

<h3>5.1 No Assignment</h3>

<p>Company acknowledges that all copyrightable material, notes, records, drawings, designs, inventions, improvements, developments, discoveries and trade secrets made, generated, conceived, or reduced to practice by Hwaci related to SQLite will remain the property of Hwaci. Nothing in this Agreement will be construed to transfer any intellectual property right of Hwaci to Company.</p>

<h3>5.2 Availability and Public Domain Dedication</h3>

<p>The SQLite Developers and Hwaci shall, subject to their discretion as to the quality and suitability of the SQLite source code and documentation for public release, make the SQLite source code and documentation publicly available as downloadable files and make a public statement ceding all intellectual property rights, including but not limited to copyright and patent rights, in the SQLite source code and documentation to the public domain. To the extent that the SQLite Developers and Hwaci elect not to release the SQLite source code and documentation publicly, they shall provide copies thereof to Company and hereby grants to Company, under all of the SQLite Developers’ and Hwaci’s rights including but not limited to copyright and patent rights, in and to the SQLite source code and documentation,
perpetual, irrevocable, worldwide, non-exclusive, sublicenseable license to use, copy, prepare derivative works of, publicly perform and display the SQLite source code and documentation and derivative works thereof.</p>

<h3>5.3 Trademark</h3>

<p>Hwaci shall use the name "SQLite" only to apply to the publicly available project known by such name as of the Effective Date. Hwaci may in its discretion file such trademark applications or registrations as it deems appropriate to protect or record its rights therein, and may set such policies as it deems appropriate for licensing the use of the trademark.</p>

<h2>6.0 Representations And Warranties</h2>

<h3>6.1 Intellectual Property Clearances</h3>

<p>Hwaci hereby represents and warrants that Hwaci shall enter into agreements with the SQLite Developers sufficient to enable Hwaci to undertake the obligations of Section 5.</p>

<h3>6.2 Disclaimer</h3>

<p>THE WORK PRODUCT AND ALL MATERIAL PROVIDED BY HWACI AND COMPANY ARE PROVIDED "AS IS." NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER ORAL OR WRITTEN, WHETHER EXPRESS, IMPLIED, OR ARISING BY STATUTE, CUSTOM, COURSE OF DEALING OR TRADE USAGE, WITH RESPECT TO THE SUBJECT MATTER HEREOF, IN CONNECTION WITH THIS AGREEMENT. EACH PARTY SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OR CONDITIONS OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.</p>

<h2>7.0 Term And Termination</h2>

<h3>7.1 Term</h3>

<p>This Agreement will commence on the Effective Date and will continue until 12 months after the Effective Date. Thereafter, the parties may by mutual consent renew this Agreement subject to agreement on fees to be paid by Company for sponsorship for additional periods.</p>

<h3>7.2 Termination</h3>
If either party materially defaults in the performance of any of its material obligations hereunder and if any such default is not corrected within 30 days after notice in writing, then the non-defaulting party, at its option, may, in addition to any other remedies it may have, thereupon terminate this Agreement by giving written notice of termination to the defaulting party.

<h3>7.3 Survival.</h3>

Upon such termination all rights and duties of the parties toward each other will cease except: Sections 4 (Confidentiality), 5 (Intellectual Property), and 8 (Miscellaneous) will survive termination of this Agreement.

<h2>8. Miscellaneous</h2>

<h3>8.1 Nonassignment/Binding Agreement.</h3>

The parties acknowledge that the unique nature of Hwaci's services are substantial consideration for the parties' entering into this Agreement. Neither this Agreement nor any rights under this Agreement may be assigned or otherwise transferred by Hwaci, in whole or in part, whether voluntarily or by operation of law, without the prior written consent of Company, which consent will not be unreasonably withheld. Subject to the foregoing, this Agreement will be binding upon and will inure to the benefit of the parties and their respective successors and assigns. Any assignment in violation of the foregoing will be null and void.

<h3>8.2 Notices.</h3>

Any notice required or permitted under the terms of this Agreement or required by law must be in writing and must be: (a) delivered in person; (b) sent by first class registered mail, or air mail, as appropriate; or (c) sent by overnight air courier, in each case properly posted and fully prepaid to the appropriate address set forth in the preamble to this Agreement. Either party may change its address for notice by notice to the other party given in accordance with this Section. Notices will be considered to have been given at the time of actual delivery in person, three business days after deposit in the mail as set forth above, or one day after delivery to an overnight air courier service.
<h3>8.3 Waiver.</h3>

Any waiver of the provisions of this Agreement or of a party's rights or remedies under this Agreement must be in writing to be effective. Failure, neglect, or delay by a party to enforce the provisions of this Agreement or its rights or remedies at any time, will not be construed as a waiver of such party's rights under this Agreement and will not in any way affect the validity of the whole or any part of this Agreement or prejudice such party's right to take subsequent action. No exercise or enforcement by either party of any right or remedy under this Agreement will preclude the enforcement by such party of any other right or remedy under this Agreement or that such party is entitled by law to enforce.

<h3>8.4 Severability.</h3>

If any term, condition, or provision in this Agreement is found to be invalid, unlawful or unenforceable to any extent, the parties shall endeavor in good faith to agree to such amendments that will preserve, as far as possible, the intentions expressed in this Agreement. If the parties fail to agree on such an amendment, such invalid term, condition or provision will be severed from the remaining terms, conditions and provisions, which will continue to be valid and enforceable to the fullest extent permitted by law.

<h3>8.5 Integration.</h3>

This Agreement contains the entire agreement of the parties with respect to the subject matter of this Agreement and supersedes all previous communications, representations, understandings and agreements, either oral or written, between the parties with respect to said subject matter. This Agreement may not be amended, except by a writing signed by both parties.

<h3>8.6 Counterparts.</h3>

This Agreement may be executed in counterparts, each of which so executed will be deemed to be an original and such counterparts together will constitute one and the same agreement.

<h3>8.7 Governing Law.</h3>
This Agreement will be interpreted and construed in accordance with the laws of the State of North Carolina and the United States of America, without regard to conflict of law principles. All disputes arising out of this Agreement will be subject to the exclusive jurisdiction of the state and federal courts located in North Carolina, and each party hereby consents to the personal jurisdiction thereof.

8.8 Independent Contractors.

It is the intention of the parties that Hwaci is an independent contractor. Nothing in this Agreement will in any way be construed to constitute Hwaci or any of its employees as an agent, employee or representative of Company.

9.0 Signatures

The parties have executed this Agreement below to indicate their acceptance of its terms.

<table>
<thead>
<tr>
<th>HWACI</th>
<th>COMPANY</th>
</tr>
</thead>
<tbody>
<tr>
<td>By:</td>
<td>By:</td>
</tr>
<tr>
<td>Print Name:</td>
<td>Print Name:</td>
</tr>
<tr>
<td>Title:</td>
<td>Title:</td>
</tr>
</tbody>
</table>

Found in path(s):
No license file was found, but licenses were detected in source scan.

<a href="http://en.wikipedia.org/wiki/Public_Domain">Public Domain</a> <a href="http://en.wikipedia.org/wiki/Public_Domain">public domain</a> the public domain and originals of author, and all of those authors have public domain dedications. Even though SQLite is in the public domain and does not require the public domain. <li>
their contributions to the public domain.
in this code to the public domain. We make this dedication for the benefit

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjl2WH1/sqlite-doc-3071700.zip-cosi-expand-archive-oxP7G8cr/sqlite-doc-3071700/copyright.html
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a>. No claim of ownership is made

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjl2WH1/sqlite-doc-3071700.zip-cosi-expand-archive-oxP7G8cr/sqlite-doc-3071700/faq.html
No license file was found, but licenses were detected in source scan.

/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
 * This code is in the public domain; do with it what you wish.
 * 
 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 * 
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
 */

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjl2WH1/sqlite-src-3071700.zip-cosi-expand-archive-krmlf99b/sqlite-src-3071700/test/threadtest3.c
  
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjl2WH1/sqlite-src-3071700.zip-cosi-expand-archive-krmlf99b/sqlite-src-3071700/src/tclsqlite.c
No license file was found, but licenses were detected in source scan.

application is free to use the same <a href="./c3ref/sqlite3.html">database connection</a> or the
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 59029

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.90/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjI2WH1/sqlite-doc-3071700.zip-cosi-expand-archive-0xP7G8cr/sqlite-doc-
  3071700/c3ref/c_config_covering_index_scan.html

No license file was found, but licenses were detected in source scan.

MMFauxFont.prc

Found in path(s):  
* %%BeginFile

No license file was found, but licenses were detected in source scan.

/*
 ** The "printf" code that follows dates from the 1980's. It is in
 ** the public domain. The original comments are included here for
 ** completeness. They are very out-of-date but might be useful as
 ** an historical reference. Most of the "enhancements" have been backed
 ** out so that the functionality is now the same as standard printf().
 **
 ***
 ** This file contains code for a set of "printf"-like routines. These
 ** routines format strings much like the printf() from the standard C
 ** library, though the implementation here has enhancements to support
 ** SQLite.
 */

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.90/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjI2WH1/sqlite-src-3071700.zip-cosi-expand-archive-kRmLF99B/sqlite-src-3071700/src/printf.c

No license file was found, but licenses were detected in source scan.

# 2001 September 15
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
# # May you do good and not evil.
# # May you find forgiveness for yourself and forgive others.
# # May you share freely, never taking more than you give.
#
#******************************************************************************
# This file implements regression tests for SQLite library. The
# focus of this file is testing built-in functions.
#
# set testdir [file dirname $argv0]
source $testdir/tester.tcl

# Create a table to work with.
#
do_test func-0.0 {
    execsql {CREATE TABLE tbl1(t1 text)}
    foreach word {this program is free software} {
        execsql "INSERT INTO tbl1 VALUES('$word')"
    }
    execsql {SELECT t1 FROM tbl1 ORDER BY t1}
} {free is program software this}

do_test func-0.1 {
    execsql {
        CREATE TABLE t2(a);
        INSERT INTO t2 VALUES(1);
        INSERT INTO t2 VALUES(NULL);
        INSERT INTO t2 VALUES(345);
        INSERT INTO t2 VALUES(NULL);
        INSERT INTO t2 VALUES(67890);
        SELECT * FROM t2;
    }
} {1 {} 345 {} 67890}

# Check out the length() function
#
do_test func-1.0 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {4 2 7 8 4}

do_test func-1.1 {
    set r [catch {execsql {SELECT length(*) FROM tbl1 ORDER BY t1}} msg]
    lappend r $msg
} {1 {wrong number of arguments to function length()}}

do_test func-1.2 {
    set r [catch {execsql {SELECT length(t1,5) FROM tbl1 ORDER BY t1}} msg]
    lappend r $msg
} {1 {wrong number of arguments to function length()}}

do_test func-1.3 {
    execsql {SELECT length(t1), count(*) FROM tbl1 GROUP BY length(t1)
        ORDER BY length(t1)}
} {2 1 4 2 7 1 8 1}

do_test func-1.4 {
    execsql {SELECT coalesce(length(a),-1) FROM t2}
} {1 -1 3 -1 5}

# Check out the substr() function
#

do_test func-2.0 {
    execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1}
do_test func-2.1 {
  execsql {SELECT substr(t1,2,1) FROM tbl1 ORDER BY t1}
} {rsroh}
do_test func-2.2 {
  execsql {SELECT substr(t1,3,3) FROM tbl1 ORDER BY t1}
} {ee {} ogr ftw is}
do_test func-2.3 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1}
} {esmes}
do_test func-2.4 {
  execsql {SELECT substr(t1,-1,2) FROM tbl1 ORDER BY t1}
} {esmes}
do_test func-2.5 {
  execsql {SELECT substr(t1,-2,1) FROM tbl1 ORDER BY t1}
} {eiairi}
do_test func-2.6 {
  execsql {SELECT substr(t1,-2,2) FROM tbl1 ORDER BY t1}
} {ee is am re is}
do_test func-2.7 {
  execsql {SELECT substr(t1,-4,2) FROM tbl1 ORDER BY t1}
} {fr {} gr wa th}
do_test func-2.8 {
  execsql {SELECT t1 FROM tbl1 ORDER BY substr(t1,2,20)}
} {this software free program is}
do_test func-2.9 {
  execsql {SELECT substr(a,1,1) FROM t2}
} {1 {} 3 {} 6}
do_test func-2.10 {
  execsql {SELECT substr(a,2,2) FROM t2}
} {{} {} 45 {} 78}

# Only do the following tests if TCL has UTF-8 capabilities
#
if {
  "u1234"!="u1234"
} {
  # Put some UTF-8 characters in the database
  #
do_test func-3.0 {
    execsql {DELETE FROM tbl1}
    foreach word "contains UTF-8 characters hi\u1234ho" {
      execsql "INSERT INTO tbl1 VALUES('Sword')"
    }
    execsql {SELECT t1 FROM tbl1 ORDER BY t1}
  } "UTF-8 characters contains hi\u1234ho"
do_test func-3.1 {
    execsql {SELECT length(t1) FROM tbl1 ORDER BY t1}
} {5 10 8 5}
do_test func-3.2 {
  execsql {SELECT substr(t1,1,2) FROM tbl1 ORDER BY t1} 
} {UT ch co hi}

do_test func-3.3 {
  execsql {SELECT substr(t1,1,3) FROM tbl1 ORDER BY t1} 
} "UTF cha con hi\u1234"

do_test func-3.4 {
  execsql {SELECT substr(t1,2,2) FROM tbl1 ORDER BY t1} 
} "TF ha on \u1234h"

do_test func-3.5 {
  execsql {SELECT substr(t1,2,3) FROM tbl1 ORDER BY t1} 
} "TF har ont \u1234h"

do_test func-3.6 {
  execsql {SELECT substr(t1,3,2) FROM tbl1 ORDER BY t1} 
} "F ar nt \u1234h"

do_test func-3.7 {
  execsql {SELECT substr(t1,4,2) FROM tbl1 ORDER BY t1} 
} "8 ra ta ho"

do_test func-3.8 {
  execsql {SELECT substr(t1,-1,1) FROM tbl1 ORDER BY t1} 
} "8 s s o"

do_test func-3.9 {
  execsql {SELECT substr(t1,-3,2) FROM tbl1 ORDER BY t1} 
} "F er in \u1234h"

do_test func-3.10 {
  execsql {SELECT substr(t1,-4,3) FROM tbl1 ORDER BY t1} 
} "TF ter ain \u1234h"

do_test func-3.99 {
  execsql {DELETE FROM tbl1}
  foreach word {this program is free software} {
    execsql "INSERT INTO tbl1 VALUES('$word')"
  }
  execsql {SELECT t1 FROM tbl1}
} {this program is free software}

} ;# End \u1234!=u1234

# Test the abs() and round() functions.
#
ifcapable !floatingpoint {
  do_test func-4.1 {
    execsql {
      CREATE TABLE t1(a,b,c);
      INSERT INTO t1 VALUES(1,2,3);
      INSERT INTO t1 VALUES(2,12345678901234,-1234567890);
      INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
  }
}
ifcapable floatingpoint {
  do_test func-4.1 {
    execsql {
      CREATE TABLE t1(a,b,c);
      INSERT INTO t1 VALUES(1,2,3);
      INSERT INTO t1 VALUES(2,1.2345678901234,-12345.67890);
      INSERT INTO t1 VALUES(3,-2,-5);
    }
    catchsql {SELECT abs(a,b) FROM t1}
  } {1 {wrong number of arguments to function abs()}}
}

do_test func-4.2 {
  catchsql {SELECT abs() FROM t1}
} {1 {wrong number of arguments to function abs()}}

ifcapable floatingpoint {
  do_test func-4.3 {
    catchsql {SELECT abs(b) FROM t1 ORDER BY a}
  } {0 {2 1.2345678901234 2}}
  do_test func-4.4 {
    catchsql {SELECT abs(c) FROM t1 ORDER BY a}
  } {0 {3 12345.6789 5}}
}

ifcapable !floatingpoint {
  if {[working_64bit_int]} {
    do_test func-4.3 {
      catchsql {SELECT abs(b) FROM t1 ORDER BY a}
    } {0 {2 12345678901234 2}}
    do_test func-4.4 {
      catchsql {SELECT abs(c) FROM t1 ORDER BY a}
    } {0 {3 1234567890 5}}
  }
  do_test func-4.4.1 {
    execsql {SELECT abs(a) FROM t2}
  } {1 {} 345 {} 67890}
  do_test func-4.4.2 {
    execsql {SELECT abs(t1) FROM tbl1}
  } {0.0 0.0 0.0 0.0 0.0}
}

ifcapable floatingpoint {
  do_test func-4.5 {
    catchsql {SELECT round(a,b,c) FROM t1}
  } {1 {wrong number of arguments to function round()}}
  do_test func-4.6 {
    catchsql {SELECT round(b,2) FROM t1 ORDER BY b}
  } {0 {-2.0 1.23 2.0}}
}
do_test func-4.7 {
    catchsql {SELECT round(b,0) FROM t1 ORDER BY a}
} {0 {2.0 1.0 -2.0}}
do_test func-4.8 {
    catchsql {SELECT round(c) FROM t1 ORDER BY a}
} {0 {3.0 -12346.0 -5.0}}
do_test func-4.9 {
    catchsql {SELECT round(c,a) FROM t1 ORDER BY a}
} {0 {3.0 -12345.68 -5.0}}
do_test func-4.10 {
    catchsql {SELECT 'x' || round(c,a) || 'y' FROM t1 ORDER BY a}
} {0 {x3.0y x-12345.68y x-5.0y}}
do_test func-4.11 {
    catchsql {SELECT round() FROM t1 ORDER BY a}
} {1 {wrong number of arguments to function round()}}
do_test func-4.12 {
    execsql {SELECT coalesce(round(a,2),'nil') FROM t2}
} {1.0 nil 345.0 nil 67890.0}
do_test func-4.13 {
    execsql {SELECT round(t1,2) FROM tbl1}
} {0.0 0.0 0.0 0.0 0.0}
do_test func-4.14 {
    execsql {SELECT typeof(round(5.1,1));}
} {real}
do_test func-4.15 {
    execsql {SELECT typeof(round(5.1));}
} {real}
do_test func-4.16 {
    catchsql {SELECT round(b,2.0) FROM t1 ORDER BY b}
} {0 {-2.0 1.23 2.0}}
# Verify some values reported on the mailing list.
# Some of these fail on MSVC builds with 64-bit
# long doubles, but not on GCC builds with 80-bit
# long doubles.
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.5 + $i]
    set x2 [expr 40223.0 + $i]
    do_test func-4.17.$i {
        execsql {SELECT round($x1);}
    } $x2
}
for {set i 1} {$i<999} {incr i} {
    set x1 [expr 40222.05 + $i]
    set x2 [expr 40222.10 + $i]
    do_test func-4.18.$i {
        execsql {SELECT round($x1,1);}
    } $x2
}
do_test func-4.20 {
    execsql {SELECT round(40223.499999999999999999);}
} {40223.0}
do_test func-4.21 {
    execsql {SELECT round(40224.499999999999999999);}
} {40224.0}
do_test func-4.22 {
    execsql {SELECT round(40225.499999999999999999);}
} {40225.0}
for {set i 1} {$i<10} {incr i} {
    do_test func-4.23.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.5}
do_test func-4.24.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.5}
do_test func-4.25.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.5}
}
for {set i 10} {$i<32} {incr i} {
    do_test func-4.26.$i {
        execsql {SELECT round(40223.4999999999,$i);}
    } {40223.4999999999}
do_test func-4.27.$i {
        execsql {SELECT round(40224.4999999999,$i);}
    } {40224.4999999999}
do_test func-4.28.$i {
        execsql {SELECT round(40225.4999999999,$i);}
    } {40225.4999999999}
}
do_test func-4.29 {
    execsql {SELECT round(1234567890.5);}
} {1234567891.0}
do_test func-4.30 {
    execsql {SELECT round(12345678901.5);}
} {12345678902.0}
do_test func-4.31 {
    execsql {SELECT round(123456789012.5);}
} {123456789013.0}
do_test func-4.32 {
    execsql {SELECT round(1234567890123.5);}
} {1234567890124.0}
do_test func-4.33 {
    execsql {SELECT round(12345678901234.5);}
} {12345678901235.0}
do_test func-4.34 {
    execsql {SELECT round(1234567890123.35);}
}
do_test_func-4.35 {
  execsql {SELECT round(1234567890123.445,2);}
} {1234567890123.4}
do_test_func-4.36 {
  execsql {SELECT round(99999999999994.5);}
} {99999999999995.0}
do_test_func-4.37 {
  execsql {SELECT round(9999999999999.55,1);}
} {9999999999999.6}
do_test_func-4.38 {
  execsql {SELECT round(9999999999999.556,2);}
} {9999999999999.56}
}

# Test the upper() and lower() functions
#
do_test_func-5.1 {
  execsql {SELECT upper(t1) FROM tbl1}
} {THIS PROGRAM IS FREE SOFTWARE}
do_test_func-5.2 {
  execsql {SELECT lower(upper(t1)) FROM tbl1}
} {this program is free software}
do_test_func-5.3 {
  execsql {SELECT upper(a), lower(a) FROM t2}
} {1 1 {} {} 345 345 {} {} 67890 67890}
if capable !icu {
  do_test_func-5.4 {
    catchsql {SELECT upper(a,5) FROM t2}
  } {1 {wrong number of arguments to function upper()}}
}
do_test_func-5.5 {
  catchsql {SELECT upper(*) FROM t2}
} {1 {wrong number of arguments to function upper()}}

# Test the coalesce() and nullif() functions
#
do_test_func-6.1 {
  execsql {SELECT coalesce(a,'xyz') FROM t2}
} {1 xyz 345 xyz 67890}
do_test_func-6.2 {
  execsql {SELECT coalesce(upper(a),'nil') FROM t2}
} {1 nil 345 nil 67890}
do_test_func-6.3 {
  execsql {SELECT coalesce(upper(a),'nil')} FROM t2}
} {nil}
do_test_func-6.4 {
  execsql {SELECT coalesce(upper(a),'nil')} FROM t2}
} {nil}

# Test the last_insert_rowid() function
#
do_test func-7.1 {
    execsql {SELECT last_insert_rowid()}
} [db last_insert_rowid]

# Tests for aggregate functions and how they handle NULLs.
#
ifcapable floatingpoint {
do_test func-8.1 {
    ifcapable explain {
        execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
        SELECT sum(a), count(a), round(avg(a),2), min(a), max(a), count(*) FROM t2;
    }
} {68236 3 22745.33 1 67890 5}
}
ifcapable !floatingpoint {
do_test func-8.1 {
    ifcapable explain {
        execsql {EXPLAIN SELECT sum(a) FROM t2;}
    }
    execsql {
        SELECT sum(a), count(a), avg(a), min(a), max(a), count(*) FROM t2;
    }
} {68236 3 22745.0 1 67890 5}
}
do_test func-8.2 {
    execsql {
        SELECT max('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t2;
    }
} {z+67890abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
ifcapable tempdb {
do_test func-8.3 {
    execsql {
        CREATE TEMP TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
        SELECT min('z'||a||'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP') FROM t3;
    }
} {z+1abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}
} else {
do_test func-8.3 {
    execsql {
        CREATE TABLE t3 AS SELECT a FROM t2 ORDER BY a DESC;
        SELECT min('z'||a)||defghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP ||'z' FROM t3;
    }
} {z+1abcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}

do_test func-8.4 {
    execsql {
        SELECT max('z'||a)||'defghijklmnopqrstuvwxyzABCDEFGHIJKLMNOP' FROM t3;
    }
} {z+67890abcdefgijklmnopqrstuvwxyzABCDEFGHIJKLMNOP}

ifcapable compound {
    do_test func-8.5 {
        execsql {
            SELECT sum(x) FROM (SELECT '9223372036' || '854775807' AS x
                        UNION ALL SELECT -9223372036854775807)
        }
    } {0}
    do_test func-8.6 {
        execsql {
            SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775807' AS x
                        UNION ALL SELECT -9223372036854775807)
        }
    } {integer}
    do_test func-8.7 {
        execsql {
            SELECT typeof(sum(x)) FROM (SELECT '9223372036' || '854775808' AS x
                        UNION ALL SELECT -9223372036850000000)
        }
    } {real}
}

ifcapable floatingpoint {
    do_test func-8.8 {
        execsql {
            SELECT sum(x)>0.0 FROM (SELECT '9223372036' || '854775808' AS x
                        UNION ALL SELECT -9223372036850000000)
        }
    } {1}
}
endifcapable !floatingpoint {
    do_test func-8.8 {
        execsql {
            SELECT sum(x)>0 FROM (SELECT '9223372036' || '854775808' AS x
                        UNION ALL SELECT -9223372036850000000)
        }
    } {1}
}
# How do you test the random() function in a meaningful, deterministic way?

```
#
do_test func-9.1 {
  execsql {
    SELECT random() is not null;
  }
} {1}
do_test func-9.2 {
  execsql {
    SELECT typeof(random());
  }
} {integer}
do_test func-9.3 {
  execsql {
    SELECT randomblob(32) is not null;
  }
} {1}
do_test func-9.4 {
  execsql {
    SELECT typeof(randomblob(32));
  }
} {blob}
do_test func-9.5 {
  execsql {
    SELECT length(randomblob(32)), length(randomblob(-5)),
    length(randomblob(2000))
  }
} {32 1 2000}
```

# The "hex()" function was added in order to be able to render blobs
# generated by randomblob(). So this seems like a good place to test
# hex().

```
# ifcapable bloblit {
  do_test func-9.10 {
    execsql {SELECT hex(x'0011233445566778899aAbBcCdDeEfF')}
  } {0011233445566778899AABBCCDDEEFF}
}
set encoding [db one {PRAGMA encoding}]
if {$encoding=="UTF-16le"} {
  do_test func-9.11-utf16le {
    execsql {SELECT hex(replace('abcdefg','ef','12'))}
  } {610062006300640031032006700}
do_test func-9.12-utf16le {
    execsql {SELECT hex(replace('abcdefg','",12'))}
  } {6100620063006400650066006700}
do_test func-9.13-utf16le {
```
execsql {SELECT hex(replace('aabcdefg','a','aaa'))} ;
} {6100610061006100610061006200630064006500660067000
} elseif {$encoding=="UTF-8"} {
  do_test func-9.11-utf8 {
    execsql {SELECT hex(replace('abcdefg','ef','12'))} ;
  } {61626364313267}
  do_test func-9.12-utf8 {
    execsql {SELECT hex(replace('abcdefg','','12'))} ;
  } {61626364656667}
  do_test func-9.13-utf8 {
    execsql {SELECT hex(replace('aabcdefg','a','aaa'))} ;
  } {6161616161626364656667}
}

# Use the "sqlite_register_test_function" TCL command which is part of
# the text fixture in order to verify correct operation of some of
# the user-defined SQL function APIs that are not used by the built-in
# functions.
#
set ::DB [sqlite3_connection_pointer db]
sqlite_register_test_function $::DB testfunc
do_test func-10.1 {
  catchsql {
    SELECT testfunc(NULL,NULL);
  }
} {1 {first argument should be one of: int int64 string double null value}}
do_test func-10.2 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'int', 1234
    );
  }
} {1234}
do_test func-10.3 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string', NULL
    );
  }
} {{}}
if capable floatingpoint {
do_test func-10.4 {
  execsql {
    SELECT testfunc('string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
    'string' , NULL
    );
  }
} {{}}

'double', 1.234
);
} {1.234}
do_test func-10.5 {
  execsql {
    SELECT testfunc(
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'int', 1234,
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'double', 1.234,
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'int', 1234,
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'string', 'abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ',
      'double', 1.234
    );
  }
} {1.234}

# Test the built-in sqlite_version(*) SQL function.
#
do_test func-11.1 {
  execsql {
    SELECT sqlite_version(*);
  }
} [sqlite3 -version]

# Test that destructors passed to sqlite3 by calls to sqlite3_result_text()
# etc. are called. These tests use two special user-defined functions
# (implemented in func.c) only available in test builds.
#
# Function test_destructor() takes one argument and returns a copy of the
# text form of that argument. A destructor is associated with the return
# value. Function test_destructor_count() returns the number of outstanding
# destructor calls for values returned by test_destructor().
#
if {
  [db eval {PRAGMA encoding}]=='UTF-8'} {
  do_test func-12.1-utf8 {
    execsql {
      SELECT test_destructor('hello world'), test_destructor_count();
    }
  } {{hello world} 1}
} else {
ifcapable {utf16} {
    do_test func-12.1-utf16 {
        execsql {
            SELECT test_destructor16('hello world'), test_destructor_count();
        }
    } {hello world} 1
}
}
do_test func-12.2 {
    execsql {
        SELECT test_destructor_count();
    }
} {0}
do_test func-12.3 {
    execsql {
        SELECT test_destructor('hello').' world'
    }
} {hello world}
do_test func-12.4 {
    execsql {
        SELECT test_destructor_count();
    }
} {0}
do_test func-12.5 {
    execsql {
        CREATE TABLE t4(x);
        INSERT INTO t4 VALUES(test_destructor('hello'));
        INSERT INTO t4 VALUES(test_destructor('world'));
        SELECT min(test_destructor(x)), max(test_destructor(x)) FROM t4;
    }
} {hello world}
do_test func-12.6 {
    execsql {
        SELECT test_destructor_count();
    }
} {0}
do_test func-12.7 {
    execsql {
        DROP TABLE t4;
    }
} {}
SELECT test_auxdata('hello world');
}
} {0}
do_test func-13.2 {
execsql {
    CREATE TABLE t4(a, b);
    INSERT INTO t4 VALUES('abc', 'def');
    INSERT INTO t4 VALUES('ghi', 'jkl');
}
} {}
do_test func-13.3 {
execsql {
    SELECT test_auxdata('hello world') FROM t4;
}
} {0 1}
do_test func-13.4 {
execsql {
    SELECT test_auxdata('hello world', 123) FROM t4;
}
} {{0 0} {1 1}}
do_test func-13.5 {
execsql {
    SELECT test_auxdata('hello world', a) FROM t4;
}
} {{0 0} {1 0}}
do_test func-13.6 {
execsql {
    SELECT test_auxdata('hello'||'world', a) FROM t4;
}
} {{0 0} {1 0}}

# Test that auxiliary data is preserved between calls for SQL variables.
do_test func-13.7 {
set DB [sqlite3_connection_pointer db]
set sql "SELECT test_auxdata( ?, a ) FROM t4;"
set STMT [sqlite3_prepare $DB $sql -1 TAIL]
sqlite3_bind_text $STMT 1 hello\000 -1
set res [list]
while { "SQLITE_ROW"==[sqlite3_step $STMT] } {
    lappend res [sqlite3_column_text $STMT 0]
}
lappend res [sqlite3_finalize $STMT]
} {{0 0} {1 0} SQLITE_OK}

# Make sure that a function with a very long name is rejected
do_test func-14.1 {
catch {
db function [string repeat X 254] {return "hello"}
}
] {0}
do_test func-14.2 {
catch {
  db function [string repeat X 256] {return "hello"}
}
] {1}

do_test func-15.1 {
catchsql {select test_error(NULL)}
] {1 {1}}
do_test func-15.2 {
catchsql {select test_error('this is the error message')}
] {1 {this is the error message}}
do_test func-15.3 {
catchsql {select test_error('this is the error message',12)}
] {1 {this is the error message}}
do_test func-15.4 {
  db errorcode
] {12}

# Test the quote function for BLOB and NULL values.
do_test func-16.1 {
  execsql {
    CREATE TABLE tbl2(a, b);
  }
  set STMT [sqlite3_prepare $::DB "INSERT INTO tbl2 VALUES(?, ?)" -1 TAIL]
sqlite3_bind_blob $::STMT 1 abc 3
sqlite3_step $::STMT
sqlite3_finalize $::STMT
execsql {
    SELECT quote(a), quote(b) FROM tbl2;
  }
] {X'616263' NULL}

# Correctly handle function error messages that include %.  Ticket #1354
#
do_test func-17.1 {
  proc testfunc1 args {error "Error %d with %s percents %p"}
  db function testfunc1 ::testfunc1
catchsql {
    SELECT testfunc1(1,2,3);
  }
] {1 {Error %d with %s percents %p}}

# The SUM function should return integer results when all inputs are integer.
#
do_test func-18.1 {
  execsql {
    CREATE TABLE t5(x);
    INSERT INTO t5 VALUES(1);
    INSERT INTO t5 VALUES(-99);
    INSERT INTO t5 VALUES(10000);
    SELECT sum(x) FROM t5;
  }
} {9902}
ifcapable floatingpoint {
  do_test func-18.2 {
    execsql {
      INSERT INTO t5 VALUES(0.0);
      SELECT sum(x) FROM t5;
    }
  } {9902.0}
}

# The sum of nothing is NULL. But the sum of all NULLs is NULL.
#
# The TOTAL of nothing is 0.0.
#
do_test func-18.3 {
  execsql {
    DELETE FROM t5;
    SELECT sum(x), total(x) FROM t5;
  }
} {{} 0.0}
do_test func-18.4 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
  }
} {{} 0.0}
do_test func-18.5 {
  execsql {
    INSERT INTO t5 VALUES(NULL);
    SELECT sum(x), total(x) FROM t5
  }
} {{} 0.0}
do_test func-18.6 {
  execsql {
    INSERT INTO t5 VALUES(123);
    SELECT sum(x), total(x) FROM t5
  }
} {123 123.0}

# Ticket #1664, #1669, #1670, #1674: An integer overflow on SUM causes
# an error. The non-standard TOTAL() function continues to give a helpful # result.

#

do_test func-18.10 {
  execsql {
    CREATE TABLE t6(x INTEGER);
    INSERT INTO t6 VALUES(1);
    INSERT INTO t6 VALUES(1<<62);
    SELECT sum(x) - ((1<<62)+1) from t6;
  }
  0
}
do_test func-18.11 {
  execsql {
    SELECT typeof(sum(x)) FROM t6
  }
  integer
}
ifcapable floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2.0+1) from t6;
    }
    } {1 {integer overflow}}
do_test func-18.13 {
  execsql {
    SELECT total(x) - ((1<<62)*2.0+1) FROM t6
  }
  } 0.0
}
ifcapable !floatingpoint {
  do_test func-18.12 {
    catchsql {
      INSERT INTO t6 VALUES(1<<62);
      SELECT sum(x) - ((1<<62)*2+1) from t6;
    }
    } {1 {integer overflow}}
do_test func-18.13 {
  execsql {
    SELECT total(x) - ((1<<62)*2+1) FROM t6
  }
  } 0.0
}
if {[[working_64bit_int]]} {
  do_test func-18.14 {
    execsql {
      SELECT sum(-9223372036854775805);
    }
    } -9223372036854775805
if capable && subquery {

do_test func-18.15 {
    catchsql {
        SELECT sum(x) FROM
            (SELECT 9223372036854775807 AS x UNION ALL
             SELECT 10 AS x);
    }
} {1 {integer overflow}}
if [[working_64bit_int]] {
    do_test func-18.16 {
        catchsql {
            SELECT sum(x) FROM
                (SELECT 9223372036854775807 AS x UNION ALL
                 SELECT -10 AS x);
    }
} {0 9223372036854775797}
    do_test func-18.17 {
        catchsql {
            SELECT sum(x) FROM
                (SELECT -9223372036854775807 AS x UNION ALL
                 SELECT 10 AS x);
    }
} {0 -9223372036854775797}
    do_test func-18.18 {
        catchsql {
            SELECT sum(x) FROM
                (SELECT -9223372036854775807 AS x UNION ALL
                 SELECT -10 AS x);
    }
} {1 {integer overflow}}
    do_test func-18.19 {
        catchsql {
            SELECT sum(x) FROM (SELECT 9 AS x UNION ALL SELECT -10 AS x);
    }
} {0 -1}
    do_test func-18.20 {
        catchsql {
            SELECT sum(x) FROM (SELECT -9 AS x UNION ALL SELECT 10 AS x);
    }
} {0 1}
    do_test func-18.21 {
        catchsql {
            SELECT sum(x) FROM (SELECT -10 AS x UNION ALL SELECT 9 AS x);
    }
} {0 -1}
do_test func-18.22 {
catchsql {
    SELECT sum(x) FROM (SELECT 10 AS x UNION ALL SELECT -9 AS x);
}
} {0 1}
}

} ;# ifcapable compound&subquery

# Integer overflow on abs()
#
if {[working_64bit_int]} {
do_test func-18.31 {
catchsql {
    SELECT abs(-9223372036854775807);
}
} {0 9223372036854775807}
}
do_test func-18.32 {
catchsql {
    SELECT abs(-9223372036854775807-1);
}
} {1 {integer overflow}}

# The MATCH function exists but is only a stub and always throws an error.
#
do_test func-19.1 {
execsql {
    SELECT match(a,b) FROM t1 WHERE 0;
}
} {}
do_test func-19.2 {
catchsql {
    SELECT 'abc' MATCH 'xyz';
}
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.3 {
catchsql {
    SELECT 'abc' NOT MATCH 'xyz';
}
} {1 {unable to use function MATCH in the requested context}}
do_test func-19.4 {
catchsql {
    SELECT match(1,2,3);
}
} {1 {wrong number of arguments to function match()}}

# Sounds tests.
#
if ![catch {db eval {SELECT soundex('hello')}}]} { 
    set i 0 
    foreach {name sdx} { 
        euler   E460 
        EULER   E460 
        Euler   E460 
        ellery  E460 
        gauss   G200 
        ghosh   G200 
        hilbert H416 
        Heilbronn H416 
        knuth   K530 
        kant    K530 
        Lloyd   L300 
        LADD    L300 
        Lukasiewicz L222 
        Lissajous L222 
        A       A000 
        12345   ?000 
    } { 
        incr i 
        do_test func-20.$i { 
            execsql {SELECT soundex($name)} $sdx 
        } 
    } 

# Tests of the REPLACE function. 
# 
do_test func-21.1 { 
    catchsql { 
        SELECT replace(1,2); 
    } 
    } {1 {wrong number of arguments to function replace()}} 
do_test func-21.2 { 
    catchsql { 
        SELECT replace(1,2,3,4); 
    } 
    } {1 {wrong number of arguments to function replace()}} 
do_test func-21.3 { 
    execsql { 
        SELECT typeof(replace("This is the main test string", NULL, "ALT")); 
    } 
    } {null} 
do_test func-21.4 { 
    execsql { 
        SELECT typeof(replace(NULL, "main", "ALT")); 
    } 
    }
do_test func-21.5 {
excsq{
    SELECT typeof(replace("This is the main test string", "main", NULL));
}
}
do_test func-21.6 {
excsq{
    SELECT replace("This is the main test string", "main", "ALT");
}
}
do_test func-21.7 {
excsq{
    SELECT replace("This is the main test string", "main", "larger-main");
}
}
do_test func-21.8 {
excsq{
    SELECT replace("aaaaaaa", "a", "0123456789");
}
}

ifcapable tclvar {
do_test func-21.9 {
    # Attempt to exploit a buffer-overflow that at one time existed
    # in the REPLACE function.
    set ::str "[string repeat A 29998]CC[string repeat A 35537]"
    set ::rep [string repeat B 65536]
excsq{
    SELECT LENGTH(REPLACE($::str, 'C', $::rep));
}
} \[expr 29998 + 2*65536 + 35537\]
}

# Tests for the TRIM, LTRIM and RTRIM functions.
#
do_test func-22.1 {
catchsql {SELECT trim(1,2,3)}
} 1 {wrong number of arguments to function trim()}
do_test func-22.2 {
catchsql {SELECT ltrim(1,2,3)}
} 1 {wrong number of arguments to function ltrim()}
do_test func-22.3 {
catchsql {SELECT rtrim(1,2,3)}
} 1 {wrong number of arguments to function rtrim()}
do_test func-22.4 {
excsq{SELECT trim(' hi ');
} {hi}
do_test func-22.5 {
  execsql (SELECT ltrim(' hi '));
} {{ hi }}
do_test func-22.6 {
  execsql (SELECT rtrim(' hi '));
} {{ hi }}
do_test func-22.7 {
  execsql (SELECT trim(' hi '),'xyz');
} {{ hi }}
do_test func-22.8 {
  execsql (SELECT ltrim(' hi '),'xyz');
} {{ hi }}
do_test func-22.9 {
  execsql (SELECT rtrim(' hi '),'xyz');
} {{ hi }}
do_test func-22.10 {
  execsql (SELECT trim('xyxzy hi zzzy','xyz');
} {{ hi }}
do_test func-22.11 {
  execsql (SELECT ltrim('xyxzy hi zzzy','xyz');
} {{ hi zzzy}}
do_test func-22.12 {
  execsql (SELECT rtrim('xyxzy hi zzzy','xyz');
} {{ xyxzy hi }}
do_test func-22.13 {
  execsql (SELECT trim(' hi '));
} {{ hi }}
if [{db one {PRAGMA encoding}}]=="UTF-8" { 
  do_test func-22.14 {
    execsql (SELECT hex(trim(x'c280e1bfbb4efbf6869','6162e1bfbc280'))}
} {F48FBFBF6869}
do_test func-22.15 {
  execsql (SELECT hex(trim(x'6869c280e1bfbb4efbf61','6162e1bfbc280f48fbbf'))}
} {6869}
do_test func-22.16 {
  execsql (SELECT hex(trim(x'ceb1ceb2ceb3','ceb1')));
} {CEB2CEB3}
}
do_test func-22.20 {
  execsql (SELECT typeof(trim(NULL));)
} {null}
do_test func-22.21 {
  execsql (SELECT typeof(trim(NULL,'xyz'));)
} {null}
do_test func-22.22 {
  execsql (SELECT typeof(trim('hello',NULL));)
} {null}
# This is to test the deprecated sqlite3_aggregate_count() API.
#
if capable deprecated {
do_test func-23.1 {
    sqlite3_create_aggregate db
    execsql {
        SELECT legacy_count() FROM t6;
    }
} {3}
}

# The group_concat() function.

#
do_test func-24.1 {
    execsql {
        SELECT group_concat(t1) FROM tbl1
    }
} {this, program, is, free, software}
do_test func-24.2 {
    execsql {
        SELECT group_concat(t1,’ ’) FROM tbl1
    }
} {{this program is free software}}
do_test func-24.3 {
    execsql {
        SELECT group_concat(t1,’ ‘ || rowid || ‘ ‘) FROM tbl1
    }
} {{this 2 program 3 is 4 free 5 software}}
do_test func-24.4 {
    execsql {
        SELECT group_concat(NULL,t1) FROM tbl1
    }
} {{}}
do_test func-24.5 {
    execsql {
        SELECT group_concat(t1,NULL) FROM tbl1
    }
} {this, program, is, free, software}
do_test func-24.6 {
    execsql {
        SELECT 'BEGIN-||group_concat(t1) FROM tbl1
    }
} {BEGIN-this, program, is, free, software}

# Ticket #3179: Make sure aggregate functions can take many arguments.
# None of the built-in aggregates do this, so use the md5sum() from the
# test extensions.
unset -nocomplain midargs
set midargs {}
unset -nocomplain midres
set midres {}
unset -nocomplain result
for {set i 1} {$i<[sqlite3_limit db SQLITE_LIMIT_FUNCTION_ARG -1]} {incr i} {
    append midargs ',/$i'
    append midres '/$i'
    set result [md5 "this${midres}program${midres}is${midres}free${midres}software${midres}"]
    set sql "SELECT md5sum(t1$midargs) FROM tbl1"
    do_test func-24.7.$i {
        db eval $::sql
    } $result
}

# Ticket #3806. If the initial string in a group_concat is an empty
# string, the separator that follows should still be present.
#
do_test func-24.8 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN '' ELSE t1 END) FROM tbl1
    } {,.program,is,free,software}
do_test func-24.9 {
    execsql {
        SELECT group_concat(CASE WHEN t1!='software' THEN '' ELSE t1 END) FROM tbl1
    } {,,,,software}
}

# Ticket #3923. Initial empty strings have a separator. But initial
# NULLs do not.
#
do_test func-24.10 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN null ELSE t1 END) FROM tbl1
    } {program,is,free,software}
do_test func-24.11 {
    execsql {
        SELECT group_concat(CASE WHEN t1!='software' THEN null ELSE t1 END) FROM tbl1
    } {software}
do_test func-24.12 {
    execsql {
        SELECT group_concat(CASE t1 WHEN 'this' THEN ''
            WHEN 'program' THEN null ELSE t1 END) FROM tbl1
    } {software}
}
} {,is,free,software}

# Use the test_isolation function to make sure that type conversions
# on function arguments do not effect subsequent arguments.
#
do_test func-25.1 {
execsql {SELECT test_isolation(t1,t1) FROM tbl1}
} {this program is free software}
# Try to misuse the sqlite3_create_function() interface. Verify that
# errors are returned.
#
do_test func-26.1 {
abuse_create_function db
} {}
# The previous test (func-26.1) registered a function with a very long
# function name that takes many arguments and always returns NULL. Verify
# that this function works correctly.
#
do_test func-26.2 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG} {incr i} {
lappend a $i
}
db eval "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {{}}
do_test func-26.3 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG+1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {too many arguments on function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1

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23456789_123456789_123456789_123456789_123456789_123456789_123456789}}
do_test func-26.4 {
set a {}
for {set i 1} {$i<=$::SQLITE_MAX_FUNCTION_ARG-1} {incr i} {
lappend a $i
}
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789([join $a ,]);
"
} {1 {wrong number of arguments to function
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789()}}
do_test func-26.5 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_12345678a}}
do_test func-26.6 {
catchsql "
SELECT
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a(0);
"
} {1 {no such function:
nullx_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_12345678
9_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_123456789_1
23456789_123456789_123456789_123456789_123456789_123456789_123456789a}}
do_test func-27.1 {
catchsql {SELECT coalesce()}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.2 {
catchsql {SELECT coalesce(1)}
} {1 {wrong number of arguments to function coalesce()}}
do_test func-27.3 {
catchsql {SELECT coalesce(1,2)}
} {0 1}

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 59055


# Ticket 2d401a94287b5
# Unknown function in a DEFAULT expression causes a segfault.
#
do_test func-28.1 {
db eval {
    CREATE TABLE t28(x, y DEFAULT(nosuchfunc(1)));
}
catchsql {
    INSERT INTO t28(x) VALUES(1);
}
} {1 {unknown function: nosuchfunc()}}

# Verify that the length() and typeof() functions do not actually load
# the content of their argument.
#
do_test func-29.1 {
    db eval {
        CREATE TABLE t29(id INTEGER PRIMARY KEY, x, y);
        INSERT INTO t29 VALUES(1, 2, 3), (2, NULL, 4), (3, 4.5, 5);
        INSERT INTO t29 VALUES(4, randomblob(1000000), 6);
        INSERT INTO t29 VALUES(5, "hello", 7);
    }
    db close
    sqlite3 db test.db
    sqlite3_db_status db CACHE_MISS 1
    db eval {SELECT typeof(x), length(x), typeof(y) FROM t29 ORDER BY id}
} {integer 1 integer null {} integer real 3 integer blob 1000000 integer text 5 integer}

do_test func-29.2 {
    set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
    if {$x<5} {set x 1}
    set x
} {1}

do_test func-29.3 {
    db close
    sqlite3 db test.db
    sqlite3_db_status db CACHE_MISS 1
    db eval {SELECT typeof(+x) FROM t29 ORDER BY id}
} {integer null real blob text}
    if {[permutation] != "mmap"} {
        do_test func-29.4 {
            set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
            if {$x>100} {set x many}
            set x
        } {many}
    }
    do_test func-29.5 {
        db close
    }
}
sqlite3 db test.db
sqlite3_db_status db CACHE_MISS 1
db eval {SELECT sum(length(x)) FROM t29
} {1000009}
do_test func-29.6 {
set x [lindex [sqlite3_db_status db CACHE_MISS 1] 1]
if {$x<5} {set x 1}
set x
} {1}

do_execsql_test func-30.1 {SELECT unicode('$');} 36
do_execsql_test func-30.2 [subst {SELECT unicode('\u00A2');}] 162
do_execsql_test func-30.3 [subst {SELECT unicode('u20AC');}] 8364
do_execsql_test func-30.4 {SELECT char(36,162,8364);} [subst {\u00A2\u20AC}]

for {set i 1} {$i<0xd800} {incr i 13} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
} for {set i 57344} {$i<=0xfffd} {incr i 17} {
if {$i==0xfeff} continue
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
} for {set i 65536} {$i<=0x10ffff} {incr i 139} {
do_execsql_test func-30.5.$i {SELECT unicode(char($i))} $i
}

finish_test

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other proprietary or non-standard VFSes.

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<title>SQLite Copyright Release Template</title>
<body bgcolor="white">
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Contributions To SQLite
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<p>
<table width="100%" cellpadding="0" cellspacing="0">
<tr>
<td width="60%" valign="top">
Signature:
</td>
<td valign="top" align="left">
Date:
</td>
</tr>
</table>
</p>
The source code for SQLite is in the public domain. No claim of copyright.

Suppose the demo_data.boundary field holds some proprietary data description.
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/*
** 2004 May 22
**
** The author disclaims copyright to this source code. In place of
** a legal notice, here is a blessing:
**
** May you do good and not evil.
** May you find forgiveness for yourself and forgive others.
** May you share freely, never taking more than you give.
**
******************************************************************************
** This file contains the VFS implementation for unix-like operating systems
** include Linux, MacOSX, *BSD, QNX, VxWorks, AIX, HPUX, and others.
**
** There are actually several different VFS implementations in this file.
** The differences are in the way that file locking is done. The default
** implementation uses Posix Advisory Locks. Alternative implementations
** use flock(), dot-files, various proprietary locking schemas, or simply
** skip locking all together.
**
** This source file is organized into divisions where the logic for various
** subfunctions is contained within the appropriate division. PLEASE
** KEEP THE STRUCTURE OF THIS FILE INTACT. New code should be placed
** in the correct division and should be clearly labeled.
**
** The layout of divisions is as follows:
**
** * General-purpose declarations and utility functions.
** * Unique file ID logic used by VxWorks.
** * Various locking primitive implementations (all except proxy locking):
**   + for Posix Advisory Locks
**   + for no-op locks
**   + for dot-file locks
**   + for flock() locking
**   + for named semaphore locks (VxWorks only)
**   + for AFP filesystem locks (MacOSX only)
** * sqlite3_file methods not associated with locking.
** * Definitions of sqlite3_io_methods objects for all locking
**   methods plus "finder" functions for each locking method.
** * sqlite3_vfs method implementations.
** * Locking primitives for the proxy uber-locking-method. (MacOSX only)
** * Definitions of sqlite3_vfs objects for all locking methods
**   plus implementations of sqlite3_os_init() and sqlite3_os_end().
*/
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* /opt/cola/permits/1611615592.9/sqlite-src-3071700/src/os_unix.c
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* /opt/cola/permits/1611615592.9/sqlite-doc-3071700/changes.html
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set testdir [file dirname $argv0]
source $testdir/tester.tcl
# Schema and query extracted from Skrooge.org.

do_test fuzz-oss1-skrooge {
    db eval {
CREATE TABLE parameters (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_uuid_parent TEXT NOT NULL DEFAULT '',t_name TEXT NOT NULL,t_value TEXT NOT NULL DEFAULT '',b_blob BLOB,d_lastmodifdate DATE NOT NULL DEFAULT CURRENT_TIMESTAMP,i_tmp INTEGER NOT NULL DEFAULT 0);
CREATE TABLE doctransaction (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_mode VARCHAR(1) DEFAULT 'U' CHECK (t_mode IN ('U', 'R')),d_date DATE NOT NULL,t_savestep VARCHAR(1) DEFAULT 'N' CHECK (t_savestep IN ('Y', 'N')),i_parent INTEGER,t_refreshviews VARCHAR(1) DEFAULT 'Y' CHECK (t_refreshviews IN ('Y', 'N')));
CREATE TABLE unit (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL,t_symbol TEXT NOT NULL DEFAULT '',t_country TEXT NOT NULL DEFAULT '',t_type VARCHAR(1) NOT NULL DEFAULT 'C' CHECK (t_type IN ('1', '2', 'C', 'S', 'I', 'O')),t_internet_code TEXT NOT NULL DEFAULT '',i_nbdecimal INT NOT NULL DEFAULT 2,rd_unit_id INTEGER NOT NULL DEFAULT 0,t_source TEXT NOT NULL DEFAULT '');
CREATE TABLE unitvalue (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,rd_unit_id INTEGER NOT NULL,d_date DATE NOT NULL,f_quantity FLOAT NOT NULL CHECK (f_quantity>=0));
CREATE TABLE bank (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_bank_number TEXT NOT NULL DEFAULT '',t_icon TEXT NOT NULL DEFAULT '');
CREATE TABLE account (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT '',t_bank_number TEXT NOT NULL DEFAULT '',t_icon TEXT NOT NULL DEFAULT '',i_nbdecimal INT NOT NULL DEFAULT 2,rd_account_id INTEGER NOT NULL DEFAULT 0,t_source TEXT NOT NULL DEFAULT '');
CREATE TABLE accountbalance (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,f_balance FLOAT NOT NULL DEFAULT 0,t_operation_id INTEGER NOT NULL);
CREATE TABLE "node" (id INTEGER NOT NULL PRIMARY KEY AUTOINCREMENT,t_name TEXT NOT NULL DEFAULT "",t_fullname TEXT,t_icon TEXT DEFAULT "",f_sortorder FLOAT,t_autostart VARCHAR(1) DEFAULT 'N' CHECK (t_autostart IN ('Y', 'N'))),t_data TEXT,rd_node_id INT CONSTRAINT fk_id REFERENCES node(id) ON DELETE CASCADE);

CREATE TABLE vm_category_display_tmp(id INT,
t_fullname TEXT,
rd_category_id INT,
t_bookmarked TEXT,
i_NBOPERATIONS,
f_REALCURRENTAMOUNT);

CREATE TABLE vm_budget_tmp(id INT,
rc_category_id INT,
t_including_subcategories TEXT,
f_budgeted REAL,
f_budgeted_modified REAL,
f_transferred REAL,
i_year INT,
i_month INT,
t_CATEGORY,
t_PERIOD,
f_CURRENTAMOUNT,
t_RULES);

CREATE INDEX idx_doctransaction_parent ON doctransaction (i_parent);
CREATE INDEX idx_doctransactionitem_i_object_id ON doctransactionitem (i_object_id);
CREATE INDEX idx_doctransactionitem_t_object_table ON doctransactionitem (t_object_table);
CREATE INDEX idx_doctransactionitem_t_action ON doctransactionitem (t_action);
CREATE INDEX idx_doctransactionitem_rd_doctransaction_id ON doctransactionitem (rd_doctransaction_id);
CREATE INDEX idx_doctransactionitem_optimization ON doctransactionitem (rd_doctransaction_id, i_object_id, t_object_table, t_action, id);
CREATE INDEX idx_unit_unit_id ON unitvalue(rd_unit_id);
CREATE INDEX idx_account_bank_id ON account(rd_bank_id);
CREATE INDEX idx_account_type ON account(t_type);
CREATE INDEX idx_category_category_id ON category(rd_category_id);
CREATE INDEX idx_category_t_fullname ON category(t_fullname);
CREATE INDEX idx_operation_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_tmp1_found_transfert ON operation (rc_unit_id, d_date);
CREATE INDEX idx_operation_grouped_operation_id ON operation (i_group_id);
CREATE INDEX idx_operation_i_number ON operation (i_number);
CREATE INDEX idx_operation_i_tmp ON operation (i_tmp);
CREATE INDEX idx_operation_rd_account_id ON operation (rd_account_id);
CREATE INDEX idx_operation_rc_unit_id ON operation (rc_unit_id);
CREATE INDEX idx_operation_t_status ON operation (t_status);
CREATE INDEX idx_operation_t_import_id ON operation (t_import_id);
CREATE INDEX idx_operation_t_template ON operation (t_template);
CREATE INDEX idx_operation_d_date ON operation (d_date);
CREATE INDEX idx_operationbalance_operation_id ON operationbalance (r_operation_id);
CREATE INDEX idx_suboperation_operation_id ON suboperation (rd_operation_id);
CREATE INDEX idx_suboperation_i_tm ON suboperation (i_tmp);
CREATE INDEX idx_suboperation_category_id ON suboperation (r_category_id);
CREATE INDEX idx_suboperation_refund_id_id ON suboperation (r_refund_id);
CREATE INDEX idx_recurrentoperation_rd_operation_id ON recurrentoperation (rd_operation_id);
CREATE INDEX idx_refund_close ON refund(t_close);
CREATE INDEX idx_interest_account_id ON interest (rd_account_id);
CREATE INDEX idx_rule_action_type ON rule(t_action_type);
CREATE INDEX idx_budget_category_id ON budget(rc_category_id);
CREATE INDEX idx_budgetcategory_id ON budgetcategory (id);
CREATE INDEX idx_budgetcategory_id_category ON budgetcategory (id_category);
CREATE UNIQUE INDEX uidx_parameters_uuid_parent_name ON parameters (t_uuid_parent, t_name);
CREATE UNIQUE INDEX uidx_node_parent_id_name ON node(t_name,rd_node_id);
CREATE UNIQUE INDEX uidx_node_fullname ON node(t_fullname);
CREATE UNIQUE INDEX uidx_unit_name ON unit(t_name);
CREATE UNIQUE INDEX uidx_unit_symbol ON unit(t_symbol);
CREATE UNIQUE INDEX uidx_unitvalue ON unitvalue(d_date,rd_unit_id);
CREATE UNIQUE INDEX uidx_bank_name ON bank(t_name);
CREATE UNIQUE INDEX uidx_account_name ON account(t_name);
CREATE UNIQUE INDEX uidx_category_parent_id_name ON category(t_name,rd_category_id);
CREATE UNIQUE INDEX uidx_category_fullname ON category(t_fullname);
CREATE UNIQUE INDEX uidx_refund_name ON refund(t_name);
CREATE UNIQUE INDEX uidx_payee_name ON payee(t_name);
CREATE UNIQUE INDEX uidx_interest ON interest(d_date,rd_account_id);
CREATE UNIQUE INDEX uidx_budget ON budget(i_year,i_month, rc_category_id);
CREATE VIEW v_node AS SELECT * from node;
CREATE VIEW v_node_displayname AS SELECT *, t_fullname AS t_displayname from node;
CREATE VIEW v_parameters_displayname AS SELECT *, t_name AS t_displayname from parameters;
CREATE TRIGGER fkdc_parameters_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW
BEGIN     DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET
t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;UPDATE node SET t_name=new.t_name WHERE rd_node_id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (bank est utilis par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id')   WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (bank est utilis par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id')   WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON parameters FOR EACH ROW
BEGIN     DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'parameters'; END;
CREATE TRIGGER fkdc_node_parameters_uuid BEFORE DELETE ON node FOR EACH ROW BEGIN
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'node'; END;
CREATE TRIGGER cpt_node_fullname1 AFTER INSERT ON node BEGIN UPDATE node SET
t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;END;
CREATE TRIGGER cpt_node_fullname2 AFTER UPDATE OF t_name, rd_node_id ON node BEGIN UPDATE node SET t_fullname=CASE WHEN new.rd_node_id IS NULL OR new.rd_node_id='' OR new.rd_node_id=0 THEN
new.t_name ELSE (SELECT c.t_fullname from node c where c.id=new.rd_node_id)||' > '||new.t_name END
WHERE id=new.id;UPDATE node SET t_name=new.t_name WHERE rd_node_id=new.id;END;
CREATE TRIGGER fki_account_bank_rd_bank_id_id BEFORE INSERT ON account FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (bank est utilis par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id')   WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fku_account_bank_rd_bank_id_id BEFORE UPDATE ON account FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (bank est utilis par account)
Nom de la contrainte: fki_account_bank_rd_bank_id_id')   WHERE NEW.rd_bank_id!=0 AND
NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (bank est utilis par account)') WHERE NEW.rd_bank_id!=0 AND NEW.rd_bank_id!='' AND (SELECT id FROM bank WHERE id = NEW.rd_bank_id) IS NULL; END;
CREATE TRIGGER fkdc_bank_account_id_rd_bank_id BEFORE DELETE ON bank FOR EACH ROW BEGIN
DELETE FROM account WHERE account.rd_bank_id = OLD.id; END;
CREATE TRIGGER fki_budget_category_rc_category_id_id BEFORE INSERT ON budget FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budget)') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fku_budget_category_rc_category_id_id BEFORE UPDATE ON budget FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budget)') WHERE NEW.rc_category_id!=0 AND NEW.rc_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id) IS NULL; END;
CREATE TRIGGER fkd_budget_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dttruire un objet (category est utilis par budget)') WHERE (SELECT rc_category_id FROM budget WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule)') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dttruire un objet (category est utilis par budgetrule)') WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par category)') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkd_category_category_rd_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dttruire un objet (category est utilis par category)') WHERE (SELECT rd_category_id FROM category WHERE rd_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_account_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM account WHERE account.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule)') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dttruire un objet (category est utilis par budgetrule)') WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par category)') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkd_category_category_rd_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dttruire un objet (category est utilis par category)') WHERE (SELECT rd_category_id FROM category WHERE rd_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_account_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM account WHERE account.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule)') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dttruire un objet (category est utilis par budgetrule)') WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par category)') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkd_category_category_rd_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dttruire un objet (category est utilis par category)') WHERE (SELECT rd_category_id FROM category WHERE rd_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_account_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM account WHERE account.rd_category_id = OLD.id; END;
CREATE TRIGGER fki_budgetrule_category_rc_category_id_target_id BEFORE INSERT ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par budgetrule)') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fku_budgetrule_category_rc_category_id_target_id BEFORE UPDATE ON budgetrule FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par budgetrule)') WHERE NEW.rc_category_id_target!=0 AND NEW.rc_category_id_target!='' AND (SELECT id FROM category WHERE id = NEW.rc_category_id_target) IS NULL; END;
CREATE TRIGGER fkd_budgetrule_category_rc_category_id_target_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dttruire un objet (category est utilis par budgetrule)') WHERE (SELECT rc_category_id_target FROM budgetrule WHERE rc_category_id_target = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fki_category_category_rd_category_id_id BEFORE INSERT ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilis par category)') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilis par category)') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!='' AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkd_category_category_rd_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN
SELECT RAISE(ABORT, 'Impossible de dttruire un objet (category est utilis par category)') WHERE (SELECT rd_category_id FROM category WHERE rd_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_account_id_rd_category_id BEFORE DELETE ON category FOR EACH ROW BEGIN
DELETE FROM account WHERE account.rd_category_id = OLD.id; END;
NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fku_category_category_rd_category_id_id BEFORE UPDATE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par category) Nom de la contrainte: fku_category_category_rd_category_id_id') WHERE NEW.rd_category_id!=0 AND NEW.rd_category_id!="" AND (SELECT id FROM category WHERE id = NEW.rd_category_id) IS NULL; END;
CREATE TRIGGER fkdc_category_category_id_rd_category_id BEFORE DELETE ON category WHERE category.rd_category_id = OLD.id; END;
CREATE TRIGGER fku_doctransactionitem_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionitem FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilisé par doctransactionitem) Nom de la contrainte: fku_doctransactionitem_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionitem_id_rd_doctransaction_id BEFORE DELETE ON doctransactionitem WHERE doctransactionitem.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id BEFORE UPDATE ON doctransactionmsg FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (doctransaction est utilisé par doctransactionmsg) Nom de la contrainte: fku_doctransactionmsg_doctransaction_rd_doctransaction_id_id') WHERE NEW.rd_doctransaction_id!=0 AND NEW.rd_doctransaction_id!="" AND (SELECT id FROM doctransaction WHERE id = NEW.rd_doctransaction_id) IS NULL; END;
CREATE TRIGGER fkdc_doctransaction_doctransactionmsg_id_rd_doctransaction_id BEFORE DELETE ON doctransactionmsg WHERE doctransactionmsg.rd_doctransaction_id = OLD.id; END;
CREATE TRIGGER fku_interest_account_rd_account_id_id BEFORE INSERT ON interest FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (account est utilisé par interest) Nom de la contrainte: fku_interest_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!="" AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_interest_id_rd_account_id BEFORE DELETE ON account WHERE account.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_node_node_rd_node_id_id BEFORE INSERT ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (node est utilisé par node) Nom de la contrainte: fki_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!="" AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node WHERE node.rd_node_id = OLD.id; END;
SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (node est utilis par node)
Nom de la contrainte: fki_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fk_node_node_rd_node_id_id BEFORE UPDATE ON node FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (node est utilis par node)
Nom de la contrainte: fki_node_node_rd_node_id_id') WHERE NEW.rd_node_id!=0 AND NEW.rd_node_id!='' AND (SELECT id FROM node WHERE id = NEW.rd_node_id) IS NULL; END;
CREATE TRIGGER fkdc_node_node_id_rd_node_id BEFORE DELETE ON node FOR EACH ROW BEGIN DELETE FROM node WHERE node.rd_node_id = OLD.id; END;
CREATE TRIGGER fki_operation_account_rd_account_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (account est utilis par operation)
Nom de la contrainte: fki_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fku_operation_account_rd_account_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (account est utilis par operation)
Nom de la contrainte: fku_operation_account_rd_account_id_id') WHERE NEW.rd_account_id!=0 AND NEW.rd_account_id!='' AND (SELECT id FROM account WHERE id = NEW.rd_account_id) IS NULL; END;
CREATE TRIGGER fkdc_account_operation_id_rd_account_id BEFORE DELETE ON account FOR EACH ROW BEGIN DELETE FROM operation WHERE operation.rd_account_id = OLD.id; END;
CREATE TRIGGER fki_operation_payee_r_payee_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (payee est utilis par operation)
Nom de la contrainte: fki_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fku_operation_payee_r_payee_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (payee est utilis par operation)
Nom de la contrainte: fku_operation_payee_r_payee_id_id') WHERE NEW.r_payee_id!=0 AND NEW.r_payee_id!='' AND (SELECT id FROM payee WHERE id = NEW.r_payee_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_payee_r_payee_id_id BEFORE DELETE ON payee FOR EACH ROW BEGIN UPDATE operation SET r_payee_id=0 WHERE r_payee_id=OLD.id; END;
CREATE TRIGGER fki_operation_unit_rc_unit_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (unit est utilis par operation)
Nom de la contrainte: fki_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fku_operation_unit_rc_unit_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilis par operation)
Nom de la contrainte: fku_operation_unit_rc_unit_id_id') WHERE NEW.rc_unit_id!=0 AND NEW.rc_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rc_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_unit_rc_unit_id_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM operation WHERE rc_unit_id = OLD.id; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON operation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN DELETE FROM operation WHERE r_recurrentoperation_id = OLD.id; END;
CREATE TRIGGER fki_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE INSERT ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d''ajouter un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fki_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fku_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE UPDATE ON recurrentoperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (recurrentoperation est utilis par operation)
Nom de la contrainte: fku_operation_recurrentoperation_r_recurrentoperation_id_id') WHERE NEW.r_recurrentoperation_id!=0 AND NEW.r_recurrentoperation_id!='' AND (SELECT id FROM recurrentoperation WHERE id = NEW.r_recurrentoperation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_r_recurrentoperation_id_id BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN DELETE FROM operation WHERE r_recurrentoperation_id = OLD.id; END;
CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN     DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (operation est utilis par subopération)')   WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par subopération)')       WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fkdc_operation_recurrentoperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN     DELETE FROM recurrentoperation WHERE recurrentoperation.rd_operation_id = OLD.id; END;

CREATE TRIGGER fki_suboperation_operation_rd_operation_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN   SELECT RAISE(ABORT, 'Impossible d'ajouter un objet (operation est utilis par subopération)')   WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;

CREATE TRIGGER fku_suboperation_operation_rd_operation_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN     SELECT RAISE(ABORT, 'Impossible de modifier un objet (operation est utilis par subopération)')       WHERE NEW.rd_operation_id!=0 AND NEW.rd_operation_id!='' AND (SELECT id FROM operation WHERE id = NEW.rd_operation_id) IS NULL; END;
CREATE TRIGGER fkdc_operation_suboperation_id_rd_operation_id BEFORE DELETE ON operation FOR EACH ROW BEGIN     DELETE FROM suboperation WHERE suboperation.rd_operation_id = OLD.id; END;
CREATE TRIGGER fki_suboperation_category_r_category_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (category est utilisé par subopération)') WHERE NEW.r_category_id=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_category_r_category_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (category est utilisé par subopération)') WHERE NEW.r_category_id!=0 AND NEW.r_category_id!='' AND (SELECT id FROM category WHERE id = NEW.r_category_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_category_r_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN     UPDATE suboperation SET r_category_id=0 WHERE r_category_id=OLD.id; END;
CREATE TRIGGER fki_suboperation_refund_r_refund_id_id BEFORE INSERT ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (refund est utilisé par subopération)') WHERE NEW.r_refund_id=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fku_suboperation_refund_r_refund_id_id BEFORE UPDATE ON suboperation FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (refund est utilisé par subopération)') WHERE NEW.r_refund_id!=0 AND NEW.r_refund_id!='' AND (SELECT id FROM refund WHERE id = NEW.r_refund_id) IS NULL; END;
CREATE TRIGGER fkd_suboperation_refund_r_refund_id_id BEFORE DELETE ON refund FOR EACH ROW BEGIN     UPDATE suboperation SET r_refund_id=0 WHERE r_refund_id=OLD.id; END;
CREATE TRIGGER fki_unit_unit_rd_unit_id_id BEFORE INSERT ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unit est utilisé par unit)') WHERE NEW.rd_unit_id=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unit_unit_rd_unit_id_id BEFORE UPDATE ON unit FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unit est utilisé par unit)') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN     DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fki_unitvalue_unit_rd_unit_id_id BEFORE INSERT ON unitvalue FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible d’ajouter un objet (unitvalue est utilisé par unit)') WHERE NEW.rd_unit_id=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fku_unitvalue_unit_rd_unit_id_id BEFORE UPDATE ON unitvalue FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de modifier un objet (unitvalue est utilisé par unit)') WHERE NEW.rd_unit_id!=0 AND NEW.rd_unit_id!='' AND (SELECT id FROM unit WHERE id = NEW.rd_unit_id) IS NULL; END;
CREATE TRIGGER fkdc_unit_unitvalue_id_rd_unit_id BEFORE DELETE ON unit FOR EACH ROW BEGIN DELETE FROM unitvalue WHERE unitvalue.rd_unit_id = OLD.id; END;
CREATE TRIGGER fkd_vm_budget_tmp_category_rc_category_id_id BEFORE DELETE ON category FOR EACH ROW BEGIN SELECT RAISE(ABORT, 'Impossible de dtruire un objet (category est utilisé par vm_budget_tmp)') WHERE (SELECT rc_category_id
FROM vm_budget_tmp WHERE rc_category_id = OLD.id) IS NOT NULL; END;
CREATE TRIGGER fkdc_category_vm_category_display_tmp_id rd_category_id BEFORE DELETE ON
category FOR EACH ROW BEGIN  DELETE FROM vm_category_display_tmp WHERE
vm_category_display_tmp rd_category_id = OLD.id; END;
CREATE VIEW v_unit AS SELECT *,v_unit_tmp2.f_LASTVALUE*IFNULL((SELECT s2.f_LASTVALUE
FROM v_unit_tmp2 s2 WHERE s2.id=v_unit_tmp2.rd_unit_id) , 1) AS f_CURRENTAMOUNT from
v_unit_tmp2;
CREATE VIEW v_unitvalue AS SELECT * FROM unitvalue;
CREATE VIEW v_suboperation AS SELECT * FROM suboperation;
CREATE VIEW v_operation_numbers AS SELECT DISTINCT i_number, rd_account_id FROM operation;
CREATE VIEW v_operation_next_numbers AS SELECT T1.i_number+1 AS i_number FROM
v_operation_numbers AS T1 LEFT OUTER JOIN v_operation_numbers T2 ON
T2.rd_account_id=T1.rd_account_id AND T2.i_number=T1.i_number+1 WHERE T1.i_number!=0 AND
(T2.i_number IS NULL) ORDER BY T1.i_number;
CREATE VIEW v_operation_tmp1 AS SELECT *,(SELECT s.id FROM suboperation s WHERE
s.rd_operation_id=v_operation_tmp1.rc_unit_id)*v_operation_tmp1.f_QUANTITY AS f_CURRENTAMOUNT, (CASE WHEN
v_operation_tmp1.i_group_id<>0 AND EXISTS (SELECT 1 FROM account a WHERE
v_operation_tmp1.rd_account_id=a.id AND a.t_type<>'L') AND EXISTS (SELECT 1 FROM v_operation_tmp1
op2, account a WHERE op2.i_group_id=v_operation_tmp1.i_group_id AND op2.rd_account_id=a.id AND
a.t_type<>'L' AND op2.rc_unit_id=v_operation_tmp1.rc_unit_id AND op2.f_QUANTITY=-
v_operation_tmp1.f_QUANTITY) THEN 'Y' ELSE 'N' END) AS t_TRANSFER FROM v_operation_tmp1;
CREATE VIEW v_account AS SELECT *,(SELECT MAX(s.d_date) FROM interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;

CREATE VIEW v_account_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n’êtes pas autorisé d’effacer ce compte car il contient des opérations rapprochées' END) t_delete_message FROM account;

CREATE VIEW v_bank_displayname AS SELECT *, t_name AS t_displayname FROM bank;

CREATE VIEW v_bank_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation s WHERE s.rd_bank_id=v_bank_displayname.id AND s.d_date<>'0000-00-00' AND s.t_template='N' AND s.t_status='Y') THEN 'Vous n’êtes pas autorisé d’effacer ce compte car il contient des opérations rapprochées' END) t_delete_message FROM v_bank_displayname;

CREATE VIEW v_category_displayname AS SELECT *, t_fullname AS t_displayname FROM category;

CREATE VIEW v_recurrentoperation AS SELECT *,i_period_increment||' '||(CASE t_period_unit WHEN 'Y' THEN 'année(s)' WHEN 'M' THEN 'mois' WHEN 'W' THEN 'semaine(s)' ELSE 'jour(s)' END) AS t_PERIODNLs FROM recurrentoperation;

CREATE VIEW v_recurrentoperation_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' '||SUBSTR((SELECT t_displayname FROM v_operation_displayname WHERE v_operation_displayname.id=v_recurrentoperation.rd_operation_id), 11) AS t_displayname FROM v_recurrentoperation;

CREATE VIEW v_unitvalue_display AS SELECT *,IFNULL((SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=(SELECT s2.rd_unit_id FROM unit s2 WHERE s2.id=v_suboperation.rd_unit_id)),'') AS t_UNIT,STRFTIME('%Y-%m',unitvalue.d_date) AS d_DATEMONTH,STRFTIME('%Y',unitvalue.d_date) AS d_DATEYEAR FROM unitvalue;

CREATE VIEW v_suboperation_display AS SELECT *,IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=v_suboperation.r_category_id),'') AS t_CATEGORY, IFNULL((SELECT s.t_name FROM refund s WHERE s.id=v_suboperation.r_refund_id),'') AS t_REFUND, (CASE WHEN v_suboperation.f_value>=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_INCOME, (CASE WHEN v_suboperation.f_value<=0 THEN v_suboperation.f_value ELSE 0 END) AS f_VALUE_EXPENSE FROM v_suboperation;

CREATE VIEW v_suboperation_displayname AS SELECT *, t_CATEGORY||' : '||f_value AS t_displayname FROM v_suboperation_display;

CREATE VIEW v_operation_display_all AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=v_operation.rd_account_id) AS t_ACCOUNT,(SELECT (CASE WHEN s.t_symbol!='' THEN s.t_symbol ELSE s.t_name END) FROM unit s WHERE s.id=v_operation.rc_unit_id) AS t_UNIT,(SELECT s.t_CATEGORY FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_CATEGORY,(SELECT s.t_REFUND FROM v_suboperation_display s WHERE s.id=v_operation.i_MOSTIMPSUBOP) AS t_REFUND,(CASE WHEN v_operation.f_QUANTITY<0 THEN '-' WHEN v_operation.f_QUANTITY=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 'Dépense' ELSE 'Revenu' END) AS t_TYPEEXPENSENLs, STRFTIME('%Y-%m-%d',v_operation.d_date) AS d_DATE,STRFTIME('%Y-%m-%d',v_operation.d_date) AS d_DATEQ,STRFTIME('%Y-%m-%d',v_operation.d_date) AS d_DATEW,STRFTIME('%Y-%m-%d',v_operation.d_date) AS d_DATEY, (SELECT count(*) FROM v_recurrentoperation s WHERE s.rd_operation_id=v_operation.id) AS i_NBRECURRENT, (CASE WHEN v_operation.f_QUANTITY>=0 THEN v_operation.f_QUANTITY ELSE 0 END) AS f_QUANTITY_INCOME, (CASE WHEN v_operation.f_QUANTITY<=0 THEN 0 ELSE v_operation.f_QUANTITY END) AS f_QUANTITY_EXPENSE FROM v_operation

CREATE VIEW v_operation AS SELECT *,(SELECT MAX(s.d_date) FROM interest s WHERE s.rd_account_id=account.id) AS d_MAXDATE, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=account.id AND s.t_template='N') AS f_CURRENTAMOUNT FROM account;

CREATE VIEW v_operation_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE rd_account_id=account.id AND d_date<>'0000-00-00' AND t_template='N' AND t_status='Y') THEN 'Vous n’êtes pas autorisé d’effacer ce compte car il contient des opérations rapprochées' END) t_delete_message FROM account;
CREATE VIEW v_operation_template_display AS SELECT * FROM v_operation_display_all WHERE t_template='Y';
CREATE VIEW v_operation_display AS SELECT * FROM v_operation_display_all WHERE d_date!='0000-00-00' AND t_template='N';
CREATE VIEW v_unit_display AS SELECT *,(SELECT TOTAL(o.f_QUANTITY) FROM v_operation_display o WHERE o.rc_unit_id=v_unit.id) AS f_QUANTITYOWNED FROM v_unit;
CREATE VIEW v_account_display AS SELECT (CASE t_type WHEN 'C' THEN 'Courant' WHEN 'D' THEN 'Carte de crédit' WHEN 'A' THEN 'Actif' WHEN 'I' THEN 'Investissement' WHEN 'W' THEN 'Portefeuille' WHEN 'L' THEN 'Prt' WHEN 'O' THEN 'Autre' END) AS t_TYPENLS,bank.t_name  AS t_BANK,bank.t_bank_number AS t_BANK_NUMBER,bank.t_icon AS t_ICON,v_account.*,(v_account.f_CURRENTAMOUNT/(SELECT u.f_CURRENTAMOUNT FROM v_unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00')) AS f_QUANTITY, (SELECT (CASE WHEN u.t_symbol!='' THEN u.t_symbol ELSE u.t_name END) FROM unit u, operation s WHERE u.id=s.rc_unit_id AND s.rd_account_id=v_account.id AND s.d_date='0000-00-00') AS t_UNIT, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status!='N' AND s.t_template='N') AS f_CHECKED, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.t_status='N' AND s.t_template='N') AS f_COMING_SOON, (SELECT TOTAL(s.f_CURRENTAMOUNT) FROM v_operation s WHERE s.rd_account_id=v_account.id AND s.d_date<=date('now') AND s.t_template='N') AS f_TODAYAMOUNT, (SELECT count(*) FROM v_operation_display s WHERE s.rd_account_id=v_account.id) AS i_NBOPERATIONS, IFNULL((SELECT s.f_rate FROM interest s WHERE s.rd_account_id=v_account.id AND s.d_date=v_account.d_MAXDATE),0) AS f_RATE FROM v_account, bank WHERE bank.id=v_account.rd_bank_id;
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;
CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;
CREATE VIEW v_operation_prop AS SELECT p.id AS i_PROPPID, p.t_name AS i_PROPPNAME, p.t_value AS i_PROPVALUE, op.* FROM v_operation_consolidated AS op LEFT OUTER JOIN parameters AS p ON p.t_uuid_parent=op.id||'-operation';
CREATE VIEW v_operation_consolidated AS SELECT (SELECT s.t_TYPENLS FROM v_account_display s WHERE s.id=op.rd_account_id) AS t_ACCOUNTTYPE,(SELECT u.t_TYPENLS FROM v_unit u WHERE u.id=op.rc_unit_id) AS t_UNITTYPE,sop.id AS i_SUBOPID, sop.r_refund_id AS r_refund_id, (CASE WHEN sop.t_comment='' THEN op.t_comment ELSE sop.t_comment END) AS t_REALCOMMENT, sop.t_CATEGORY AS t_REALCATEGORY, sop.t_REFUND AS t_REALREFUND, sop.r_category_id AS i_IDCATEGORY, (CASE WHEN sop.f_value<0 THEN '-' WHEN sop.f_value=0 THEN '' ELSE '+' END) AS t_TYPEEXPENSE, (CASE WHEN sop.f_value<0 THEN 'Dpense' WHEN sop.f_value=0 THEN '' ELSE 'Revenu' END) AS t_TYPEEXPENSENLS, sop.f_value AS f_REALQUANTITY, sop.f_VALUE_INCOME AS f_REALQUANTITY_INCOME, sop.f_VALUE_EXPENSE AS f_REALQUANTITY_EXPENSE, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_value) AS f_REALCURRENTAMOUNT, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_INCOME) AS f_REALCURRENTAMOUNT_INCOME, ((SELECT u.f_CURRENTAMOUNT FROM v_unit u WHERE u.id=op.rc_unit_id)*sop.f_VALUE_EXPENSE) AS f_REALCURRENTAMOUNT_EXPENSE, op.* FROM v_operation_display_all AS op, v_suboperation_display AS sop WHERE op.t_template='N' AND sop.rd_operation_id=op.ID;
CREATE VIEW v_refund AS SELECT *, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.r_refund_id=refund.id) AS f_CURRENTAMOUNT FROM refund;
CREATE VIEW v_refund_display AS SELECT *, (SELECT MIN(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_FIRSTDATE, (SELECT MAX(o.d_date) FROM v_operation_consolidated o WHERE o.r_refund_id=v_refund.id) AS d_LASTDATE FROM v_refund;
CREATE VIEW v_refund_displayname AS SELECT *, t_name AS t_displayname FROM refund;
CREATE VIEW v_payee_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM operation WHERE r_payee_id=payee.id AND t_status='Y') THEN 'Vous n’êtes pas autoris é d’effacer ce tiers car utilisé par des opérations rapprochées' END) t_delete_message FROM payee;
CREATE VIEW v_payee AS SELECT *, (SELECT TOTAL(o.f_CURRENTAMOUNT) FROM v_operation o WHERE o.r_payee_id=payee.id AND o.t_template='N') AS f_CURRENTAMOUNT FROM payee;
CREATE VIEW v_payee_display AS SELECT * FROM v_payee;
CREATE VIEW v_payee_displayname AS SELECT *, t_name AS t_displayname FROM payee;
CREATE VIEW v_category_delete AS SELECT *, (CASE WHEN EXISTS(SELECT 1 FROM v_operation_consolidated WHERE (t_REALCATEGORY=category.t_fullname OR t_REALCATEGORY like category.t_fullname||' %') AND t_status='Y') THEN 'Vous n’êtes pas autorisé d’effacer cette catégorie car utilisée par des opérations rapprochées' END) t_delete_message FROM category;
CREATE VIEW v_category_display_tmp AS SELECT *,(SELECT count(distinct(so.rd_operation_id)) FROM operation o, suboperation so WHERE so.rd_operation_id=o.id AND so.r_category_id=v_category.ID AND o.t_template='N') AS i_NBOPERATIONS, (SELECT TOTAL(o.f_REALCURRENTAMOUNT) FROM v_operation_consolidated o WHERE o.i_IDCATEGORY=v_category.ID) AS f_REALCURRENTAMOUNT FROM v_category;
CREATE VIEW v_category_display AS SELECT *,f_REALCURRENTAMOUNT+(SELECT TOTAL(c.f_REALCURRENTAMOUNT) FROM vm_category_display_tmp c WHERE c.t_fullname LIKE vm_category_display_tmp.t_fullname||' > %') AS f_SUMCURRENTAMOUNT, i_NBOPERATIONS+(SELECT CAST(TOTAL(c.i_NBOPERATIONS) AS INTEGER) FROM vm_category_display_tmp c WHERE c.t_fullname like vm_category_display_tmp.t_fullname||' > %') AS i_SUMNBOPERATIONS, (CASE WHEN t_bookmarked='Y' THEN 'Y' WHEN EXISTS(SELECT 1 FROM category c WHERE c.t_bookmarked='Y' AND c.t_fullname like vm_category_display_tmp.t_fullname||' > %') THEN 'C' ELSE 'N' END) AS t_HASBOOKMARKEDCHILD, (CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN '-' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT>0 THEN ' ' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT=0 THEN '' END) AS t_TYPEEXPENSE,(CASE WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT<0 THEN 'Dpense' WHEN vm_category_display_tmp.f_REALCURRENTAMOUNT>0 THEN 'Revenu' END) AS t_TYPEEXPENSENLs FROM vm_category_display_tmp;
CREATE VIEW v_recurrentoperation_display AS SELECT rop.*, op.t_ACCOUNT, op.i_number, op.t_mode, op.i_group_id, op.t_TRANSFER, op.t_PAYEE, op.t_comment, op.t_CATEGORY, op.t_status, op.f_CURRENTAMOUNT FROM v_recurrentoperation rop, v_operation_display_all AS op WHERE rop.rd_operation_id=op.id;
CREATE VIEW v_rule AS SELECT *,(SELECT COUNT(1) FROM rule r WHERE r.f_sortorder<=rule.f_sortorder) AS i_ORDER FROM rule;
CREATE VIEW v_rule_displayname AS SELECT *, t_definition AS t_displayname FROM rule;
CREATE VIEW v_interest AS SELECT *,(SELECT s.t_name FROM account s WHERE s.id=interest.rd_account_id) AS t_ACCOUNT FROM interest;
CREATE VIEW v_interest_displayname AS SELECT *, STRFTIME('%d/%m/%Y',d_date)||' %'||f_rate||'%' AS t_displayname FROM interest;
CREATE VIEW v_budgetrule AS SELECT *, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id),'') AS t_CATEGORYCONDITION, IFNULL((SELECT s.t_fullname FROM category s WHERE s.id=budgetrule.rc_category_id,)) AS t_CATEGORYCONDITION FROM budgetrule;
DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'payee'; END;

CREATE TRIGGER fkdc_recurrentoperation_parameters_uuid BEFORE DELETE ON recurrentoperation FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'recurrentoperation';
END;

CREATE TRIGGER fkdc_rule_parameters_uuid BEFORE DELETE ON rule FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'rule';
END;

CREATE TRIGGER fkdc_budget_parameters_uuid BEFORE DELETE ON budget FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budget';
END;

CREATE TRIGGER fkdc_budgetrule_parameters_uuid BEFORE DELETE ON budgetrule FOR EACH ROW BEGIN
  DELETE FROM parameters WHERE parameters.t_uuid_parent=OLD.id||'-'||'budgetrule';
END;

CREATE TRIGGER cpt_category_fullname1 AFTER INSERT ON category BEGIN
  UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;END;

CREATE TRIGGER cpt_category_fullname2 AFTER UPDATE OF t_name, rd_category_id ON category BEGIN
  UPDATE category SET t_fullname=CASE WHEN rd_category_id IS NULL OR rd_category_id='' OR rd_category_id=0 THEN new.t_name ELSE (SELECT c.t_fullname FROM category c WHERE c.id=new.rd_category_id)||' > '||new.t_name END WHERE id=new.id;UPDATE category SET t_name=new.t_name WHERE rd_category_id=new.id;END;

CREATE TRIGGER fkdc_category_delete BEFORE DELETE ON category FOR EACH ROW BEGIN
  UPDATE suboperation SET r_category_id=OLD.rd_category_id WHERE r_category_id=OLD.id; END;

CREATE TRIGGER db_close AFTER INSERT ON category BEGIN
  db close;
  forcedelete test.db;
  sqlite3 db test.db;
  do_test fuzz-oss1-gnomeshell {
    db eval {
      CREATE TABLE Resource (ID INTEGER NOT NULL PRIMARY KEY, Uri TEXT NOT NULL, UNIQUE (Uri));
      CREATE VIRTUAL TABLE fts USING fts4;
      CREATE TABLE "mfo:Action" (ID INTEGER NOT NULL PRIMARY KEY);
      CREATE TABLE "mfo:Enclosure" (ID INTEGER NOT NULL PRIMARY KEY,
"mfo:remoteLink" INTEGER, "mfo:remoteLink:graph" INTEGER,
"mfo:remoteLink:graph" INTEGER,
"mfo:remoteLink:graph" INTEGER,
...}
CREATE TABLE "mfo:FeedElement" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:image" TEXT COLLATE NOCASE, "mfo:image:graph" INTEGER, "mfo:feedSettings" INTEGER, "mfo:feedSettings:graph" INTEGER);
CREATE TABLE "mfo:FeedMessage" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:downloadedTime" INTEGER, "mfo:downloadedTime:graph" INTEGER, "mfo:downloadedTime:localDate" INTEGER, "mfo:downloadedTime:localTime" INTEGER);
CREATE TABLE "mfo:FeedMessage_mfo:enclosureList" (ID INTEGER NOT NULL, "mfo:enclosureList" INTEGER NOT NULL, "mfo:enclosureList:graph" INTEGER);
CREATE TABLE "mfo:FeedType" (ID INTEGER NOT NULL PRIMARY KEY, "mfo:name" TEXT COLLATE NOCASE, "mfo:name:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbNorthWest" (ID INTEGER NOT NULL, "mlo:bbNorthWest" INTEGER NOT NULL, "mlo:bbNorthWest:graph" INTEGER);
CREATE TABLE "mlo:GeoBoundingBox_mlo:bbSouthEast" (ID INTEGER NOT NULL, "mlo:bbSouthEast" INTEGER NOT NULL, "mlo:bbSouthEast:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoLocation_mlo:asBoundingBox" (ID INTEGER NOT NULL, "mlo:asBoundingBox" INTEGER NOT NULL, "mlo:asBoundingBox:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asGeoPoint" (ID INTEGER NOT NULL, "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoLocation_mlo:asPostalAddress" (ID INTEGER NOT NULL, "mlo:asPostalAddress" INTEGER NOT NULL, "mlo:asPostalAddress:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoPoint_mlo:address" (ID INTEGER NOT NULL, "mlo:address" TEXT NOT NULL, "mlo:address:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:altitude" (ID INTEGER NOT NULL, "mlo:altitude" INTEGER NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:geoPoint" (ID INTEGER NOT NULL, "mlo:geoPoint" INTEGER NOT NULL, "mlo:geoPoint:graph" INTEGER);
CREATE TABLE "mlo:altitude" REAL NOT NULL, "mlo:altitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:city" (ID INTEGER NOT NULL, "mlo:city" TEXT NOT NULL, "mlo:city:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:country" (ID INTEGER NOT NULL, "mlo:country" TEXT NOT NULL, "mlo:country:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:latitude" (ID INTEGER NOT NULL, "mlo:latitude" REAL NOT NULL, "mlo:latitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:longitude" (ID INTEGER NOT NULL, "mlo:longitude" REAL NOT NULL, "mlo:longitude:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:state" (ID INTEGER NOT NULL, "mlo:state" TEXT NOT NULL, "mlo:state:graph" INTEGER);
CREATE TABLE "mlo:GeoPoint_mlo:timestamp" (ID INTEGER NOT NULL, "mlo:timestamp" INTEGER NOT NULL, "mlo:timestamp:graph" INTEGER, "mlo:timestamp:localDate" INTEGER NOT NULL, "mlo:timestamp:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:GeoSphere" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:GeoSphere_mlo:radius" (ID INTEGER NOT NULL, "mlo:radius" REAL NOT NULL, "mlo:radius:graph" INTEGER);
CREATE TABLE "mlo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LandmarkCategory_mlo:isRemovable" (ID INTEGER NOT NULL, "mlo:isRemovable" INTEGER NOT NULL, "mlo:isRemovable:graph" INTEGER);
CREATE TABLE "mlo:Landmark_mlo:belongsToCategory" (ID INTEGER NOT NULL, "mlo:belongsToCategory" INTEGER NOT NULL, "mlo:belongsToCategory:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxEastLimit" (ID INTEGER NOT NULL, "mlo:boxEastLimit" INTEGER NOT NULL, "mlo:boxEastLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxNorthLimit" (ID INTEGER NOT NULL, "mlo:boxNorthLimit" INTEGER NOT NULL, "mlo:boxNorthLimit:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxSouthWestCorner" (ID INTEGER NOT NULL, "mlo:boxSouthWestCorner" INTEGER NOT NULL, "mlo:boxSouthWestCorner:graph" INTEGER);
CREATE TABLE "mlo:LocationBoundingBox_mlo:boxVerticalLimit" (ID INTEGER NOT NULL, "mlo:boxVerticalLimit" INTEGER NOT NULL, "mlo:boxVerticalLimit:graph" INTEGER);
CREATE TABLE "mlo:PointOfInterest" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mlo:Route_mlo:endTime" (ID INTEGER NOT NULL, "mlo:endTime" INTEGER NOT NULL, "mlo:endTime:graph" INTEGER, "mlo:endTime:localDate" INTEGER NOT NULL, "mlo:endTime:localTime" INTEGER NOT NULL);
CREATE TABLE "mlo:Route_mlo:routeDetails" (ID INTEGER NOT NULL,
CREATE TABLE "mlo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
"mlo:routeDetails" TEXT NOT NULL, "mlo:routeDetails:graph" INTEGER);
CREATE TABLE "mlo:Route_mlo:startTime" (ID INTEGER NOT NULL,
"mlo:startTime" INTEGER NOT NULL, "mlo:startTime:graph" INTEGER,
"mlo:startTime:localDate" INTEGER NOT NULL, "mlo:startTime:localTime"
INTEGER NOT NULL);
CREATE TABLE "mto:DownloadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:State" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:SyncTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer" (ID INTEGER NOT NULL PRIMARY KEY,
"mto:transferState" INTEGER, "mto:transferState:graph" INTEGER,
"mto:method" INTEGER, "mto:method:graph" INTEGER, "mto:created"
INTEGER, "mto:created:graph" INTEGER, "mto:created:localDate" INTEGER,
"mto:created:localTime" INTEGER, "mto:account" TEXT COLLATE NOCASE,
"mto:account:graph" INTEGER, "mto:starter" INTEGER,
"mto:starter:graph" INTEGER, "mto:agent" INTEGER, "mto:agent:graph"
INTEGER);
CREATE TABLE "mto:TransferElement" (ID INTEGER NOT NULL PRIMARY KEY,
"mto:source" INTEGER, "mto:source:graph" INTEGER, "mto:destination"
INTEGER, "mto:destination:graph" INTEGER, "mto:startedTime" INTEGER,
"mto:startedTime:graph" INTEGER, "mto:startedTime:localDate" INTEGER,
"mto:startedTime:localTime" INTEGER, "mto:completedTime" INTEGER,
"mto:completedTime:graph" INTEGER, "mto:completedTime:localDate"
INTEGER, "mto:completedTime:localTime" INTEGER, "mto:state" INTEGER,
"mto:state:graph" INTEGER);
CREATE TABLE "mto:TransferMethod" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:Transfer_mto:transferList" (ID INTEGER NOT NULL,
"mto:transferList" INTEGER NOT NULL, "mto:transferList:graph" INTEGER);
CREATE TABLE "mto:Transfer_mto:transferPrivacyLevel" (ID INTEGER NOT
NULL, "mto:transferPrivacyLevel" TEXT NOT NULL,
"mto:transferPrivacyLevel:graph" INTEGER);
CREATE TABLE "mto:UploadTransfer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "mto:UploadTransfer_mto:transferCategory" (ID INTEGER NOT
NULL, "mto:transferCategory" TEXT NOT NULL, "mto:transferCategory:graph"
INTEGER);
CREATE TABLE "mtp:ScanType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nao:Property" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:propertyName" TEXT COLLATE NOCASE, "nao:propertyName:graph"
INTEGER, "nao:propertyValue" TEXT COLLATE NOCASE, "nao:propertyValue:graph"
INTEGER);
CREATE TABLE "nao:Tag" (ID INTEGER NOT NULL PRIMARY KEY,
"nao:prefLabel" TEXT COLLATE NOCASE, "nao:prefLabel:graph" INTEGER,
"nao:description" TEXT COLLATE NOCASE, "nao:description:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:isDefaultTag" (ID INTEGER NOT NULL,
"tracker:isDefaultTag" INTEGER NOT NULL, "tracker:isDefaultTag:graph"
INTEGER);
CREATE TABLE "nao:Tag_tracker:tagRelatedTo" (ID INTEGER NOT NULL,
"tracker:tagRelatedTo" INTEGER NOT NULL, "tracker:tagRelatedTo:graph" INTEGER);
CREATE TABLE "ncal:AccessClassification" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Alarm" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:repeat" INTEGER, "ncal:repeat:graph" INTEGER);
CREATE TABLE "ncal:AlarmAction" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attachment" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:attachmentUri" INTEGER, "ncal:attachmentUri:graph" INTEGER,
  "ncal:fmttype" TEXT COLLATE NOCASE, "ncal:fmttype:graph" INTEGER,
  "ncal:encoding" INTEGER, "ncal:encoding:graph" INTEGER,
  "ncal:attachmentContent" TEXT COLLATE NOCASE,
  "ncal:attachmentContent:graph" INTEGER);
CREATE TABLE "ncal:AttachmentEncoding" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:delegatedTo" INTEGER, "ncal:delegatedTo:graph" INTEGER,
  "ncal:delegatedFrom" INTEGER, "ncal:delegatedFrom:graph" INTEGER,
  "ncal:cutype" INTEGER, "ncal:cutype:graph" INTEGER, "ncal:member" INTEGER,
  "ncal:member:graph" INTEGER, "ncal:role" INTEGER, "ncal:role:graph" INTEGER,
  "ncal:rsvp" INTEGER, "ncal:rsvp:graph" INTEGER, "ncal:partstat" INTEGER,
  "ncal:partstat:graph" INTEGER);
CREATE TABLE "ncal:AttendeeOrOrganizer" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:dir" INTEGER, "ncal:dir:graph" INTEGER,
  "ncal:involvedContact" INTEGER, "ncal:involvedContact:graph" INTEGER,
  "ncal:member" INTEGER, "ncal:member:graph" INTEGER,
  "ncal:role" INTEGER, "ncal:role:graph" INTEGER, "ncal:rsvp" INTEGER,
  "ncal:rsvp:graph" INTEGER, "ncal:partstat" INTEGER,
  "ncal:partstat:graph" INTEGER);
CREATE TABLE "ncal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayModifier" (ID INTEGER NOT NULL,
  "ncal:bydayModifier" INTEGER NOT NULL, "ncal:bydayModifier:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT NULL,
  "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph" INTEGER);
CREATE TABLE "ncal:BydayRulePart_ncal:bydayWeekday" (ID INTEGER NOT NULL,
  "ncal:bydayWeekday" INTEGER NOT NULL, "ncal:bydayWeekday:graph" INTEGER);
CREATE TABLE "ncal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:method" TEXT COLLATE NOCASE, "ncal:method:graph" INTEGER,
  "ncal:calscale" INTEGER, "ncal:calscale:graph" INTEGER, "ncal:prodid" TEXT COLLATE NOCASE, "ncal:prodid:graph" INTEGER, "ncal:version" TEXT COLLATE NOCASE,
  "ncal:version:graph" INTEGER);
CREATE TABLE "ncal:CalendarDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarScale" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Calendar_ncal:component" (ID INTEGER NOT NULL,
  "ncal:component" INTEGER NOT NULL, "ncal:component:graph" INTEGER);
CREATE TABLE "ncal:Event" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:eventStatus" INTEGER, "ncal:eventStatus:graph" INTEGER,
  "ncal:transp" INTEGER, "ncal:transp:graph" INTEGER);
CREATE TABLE "ncal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:FreebusyPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:fbtype" INTEGER, "ncal:fbtype:graph" INTEGER);
CREATE TABLE "ncal:FreebusyType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Freebusy_ncal:freebusy" (ID INTEGER NOT NULL,
  "ncal:freebusy" INTEGER NOT NULL, "ncal:freebusy:graph" INTEGER);
CREATE TABLE "ncal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:journalStatus" INTEGER, "ncal:journalStatus:graph" INTEGER);
CREATE TABLE "ncal:JournalStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:NcalDateTime" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:ncalTimezone" INTEGER, "ncal:ncalTimezone:graph" INTEGER,
  "ncal:date" INTEGER, "ncal:date:graph" INTEGER, "ncal:date:localDate"
  INTEGER, "ncal:date:localTime" INTEGER, "ncal:dateTime" INTEGER,
  "ncal:dateTime:graph" INTEGER, "ncal:dateTime:localDate" INTEGER,
  "ncal:dateTime:localTime" INTEGER);
CREATE TABLE "ncal:NcalPeriod" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:periodBegin" INTEGER, "ncal:periodBegin:graph" INTEGER,
  "ncal:periodBegin:localDate" INTEGER, "ncal:periodBegin:localTime"
  INTEGER, "ncal:periodDuration" INTEGER, "ncal:periodDuration:graph"
  INTEGER, "ncal:periodEnd" INTEGER, "ncal:periodEnd:graph" INTEGER,
  "ncal:periodEnd:localDate" INTEGER, "ncal:periodEnd:localTime" INTEGER);
CREATE TABLE "ncal:NcalTimeEntity" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:Organizer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:ParticipationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceFrequency" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceIdentifier" (ID INTEGER NOT NULL PRIMARY
  KEY, "ncal:range" INTEGER, "ncal:range:graph" INTEGER,
  "ncal:recurrenceIdDateTime" INTEGER, "ncal:recurrenceIdDateTime:graph"
  INTEGER);
CREATE TABLE "ncal:RecurrenceIdentifierRange" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "ncal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
  "ncal:until" INTEGER, "ncal:until:graph" INTEGER,
  "ncal:until:localDate" INTEGER, "ncal:until:localTime" INTEGER,
  "ncal:wkst" INTEGER, "ncal:wkst:graph" INTEGER, "ncal:interval"
  INTEGER, "ncal:interval:graph" INTEGER, "ncal:count" INTEGER,
  "ncal:count:graph" INTEGER, "ncal:freq" INTEGER, "ncal:freq:graph"
  INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byday" (ID INTEGER NOT NULL,
  "ncal:byday" INTEGER NOT NULL, "ncal:byday:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byhour" (ID INTEGER NOT NULL,
  "ncal:byhour" INTEGER NOT NULL, "ncal:byhour:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:byminute" (ID INTEGER NOT NULL,
  "ncal:byminute" INTEGER NOT NULL, "ncal:byminute:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonth" (ID INTEGER NOT NULL,
  "ncal:bymonth" INTEGER NOT NULL, "ncal:bymonth:graph" INTEGER);
CREATE TABLE "ncal:RecurrenceRule_ncal:bymonthday" (ID INTEGER NOT NULL,
  "ncal:bymonthday" INTEGER NOT NULL, "ncal:bymonthday:graph"
<table>
<thead>
<tr>
<th>Table Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ncal:RecurrenceRule_ncal:bysecond</td>
<td>(ID INTEGER NOT NULL, &quot;ncal:bysecond&quot; INTEGER NOT NULL, &quot;ncal:bysecond:graph&quot; INTEGER)</td>
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<tr>
<td>ncal:RecurrenceRule_ncal:bysetpos</td>
<td>(ID INTEGER NOT NULL, &quot;ncal:bysetpos&quot; INTEGER NOT NULL, &quot;ncal:bysetpos:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>ncal:RecurrenceRule_ncal:byweekno</td>
<td>(ID INTEGER NOT NULL, &quot;ncal:byweekno&quot; INTEGER NOT NULL, &quot;ncal:byweekno:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>ncal:RecurrenceRule_ncal:byyearday</td>
<td>(ID INTEGER NOT NULL, &quot;ncal:byyearday&quot; INTEGER NOT NULL, &quot;ncal:byyearday:graph&quot; INTEGER)</td>
</tr>
<tr>
<td>ncal:TimeTransparency</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
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<tr>
<td>ncal:TodoStatus</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
</tr>
<tr>
<td>ncal:TriggerRelation</td>
<td>(ID INTEGER NOT NULL PRIMARY KEY)</td>
</tr>
</tbody>
</table>
CREATE TABLE "ncal:UnionParentClass_ncal:attach" (ID INTEGER NOT NULL, "ncal:attach" INTEGER NOT NULL, "ncal:attach:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:attendee" (ID INTEGER NOT NULL, "ncal:attendee" INTEGER NOT NULL, "ncal:attendee:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:categories" (ID INTEGER NOT NULL, "ncal:categories" TEXT NOT NULL, "ncal:categories:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exdate" (ID INTEGER NOT NULL, "ncal:exdate" INTEGER NOT NULL, "ncal:exdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:exrule" (ID INTEGER NOT NULL, "ncal:exrule" INTEGER NOT NULL, "ncal:exrule:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:hasAlarm" (ID INTEGER NOT NULL, "ncal:hasAlarm" INTEGER NOT NULL, "ncal:hasAlarm:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:ncalRelation" (ID INTEGER NOT NULL, "ncal:ncalRelation" TEXT NOT NULL, "ncal:ncalRelation:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rdate" (ID INTEGER NOT NULL, "ncal:rdate" INTEGER NOT NULL, "ncal:rdate:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToChild" (ID INTEGER NOT NULL, "ncal:relatedToChild" TEXT NOT NULL, "ncal:relatedToChild:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:relatedToParent" (ID INTEGER NOT NULL, "ncal:relatedToParent" TEXT NOT NULL, "ncal:relatedToParent:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:resources" (ID INTEGER NOT NULL, "ncal:resources" TEXT NOT NULL, "ncal:resources:graph" INTEGER);
CREATE TABLE "ncal:UnionParentClass_ncal:rrule" (ID INTEGER NOT NULL, "ncal:rrule" INTEGER NOT NULL, "ncal:rrule:graph" INTEGER);
CREATE TABLE "ncal:Weekday" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:Affiliation" (ID INTEGER NOT NULL PRIMARY KEY, "nco:department" TEXT COLLATE NOCASE, "nco:department:graph" INTEGER, "nco:org" INTEGER, "nco:org:graph" INTEGER, "nco:role" TEXT COLLATE NOCASE, "nco:role:graph" INTEGER);
CREATE TABLE "nco:Affiliation_nco:title" (ID INTEGER NOT NULL, "nco:title" TEXT NOT NULL, "nco:title:graph" INTEGER);
CREATE TABLE "nco:AuthorizationStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:BbsNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:CellPhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactGroup" (ID INTEGER NOT NULL PRIMARY KEY, "nco:contactGroupName" TEXT COLLATE NOCASE, "nco:contactGroupName:graph" INTEGER);
CREATE TABLE "nco:ContactList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactListDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:ContactList_nco:containsContact" (ID INTEGER NOT NULL, "nco:containsContact" INTEGER NOT NULL, "nco:containsContact:graph" INTEGER);
CREATE TABLE "nco:ContactMedium" (ID INTEGER NOT NULL PRIMARY KEY, "nco:contactMediumComment" TEXT COLLATE NOCASE, "nco:contactMediumComment:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:anniversary" (ID INTEGER NOT NULL, "ncal:anniversary" INTEGER NOT NULL, "ncal:anniversary:graph" INTEGER);
CREATE TABLE "nco:Contact_ncal:birthday" (ID INTEGER NOT NULL, "ncal:birthday" INTEGER NOT NULL, "ncal:birthday:graph" INTEGER);
CREATE TABLE "nco:Contact_nco:belongsToGroup" (ID INTEGER NOT NULL, "nco:belongsToGroup" INTEGER NOT NULL, "nco:belongsToGroup:graph" INTEGER);
KEY, "nco:logo" INTEGER, "nco:logo:graph" INTEGER);  
CREATE TABLE "nco:PagerNumber" (ID INTEGER NOT NULL PRIMARY KEY);  
CREATE TABLE "nco:ParcelDeliveryAddress" (ID INTEGER NOT NULL PRIMARY KEY);  
CREATE TABLE "nco:PcsNumber" (ID INTEGER NOT NULL PRIMARY KEY);  
CREATE TABLE "nco:PersonContact_nco:hasAffiliation" (ID INTEGER NOT NULL, "nco:hasAffiliation" INTEGER NOT NULL, "nco:hasAffiliation:graph" INTEGER);  
CREATE TABLE "nco:PhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:phoneNumber" TEXT COLLATE NOCASE, "nco:phoneNumber:graph" INTEGER);  
CREATE TABLE "nco:PresenceStatus" (ID INTEGER NOT NULL PRIMARY KEY);  
CREATE TABLE "nco:Role" (ID INTEGER NOT NULL PRIMARY KEY, "nco:video" INTEGER, "nco:video:graph" INTEGER);  
CREATE TABLE "nco:Role_nco:blogUrl" (ID INTEGER NOT NULL, "nco:blogUrl" INTEGER NOT NULL, "nco:blogUrl:graph" INTEGER);  
CREATE TABLE "nco:Role_nco:foafUrl" (ID INTEGER NOT NULL, "nco:foafUrl" INTEGER NOT NULL, "nco:foafUrl:graph" INTEGER);  
CREATE TABLE "nco:Role_nco:hasContactMedium" (ID INTEGER NOT NULL, "nco:hasContactMedium" INTEGER NOT NULL, "nco:hasContactMedium:graph" INTEGER);  
CREATE TABLE "nco:Role_nco:hasEmailAddress" (ID INTEGER NOT NULL, "nco:hasEmailAddress" INTEGER NOT NULL, "nco:hasEmailAddress:graph" INTEGER);  
CREATE TABLE "nco:Role_nco:hasIMAddress" (ID INTEGER NOT NULL, "nco:hasIMAddress" INTEGER NOT NULL, "nco:hasIMAddress:graph" INTEGER);  
CREATE TABLE "nco:Role_nco:hasPhoneNumber" (ID INTEGER NOT NULL,
CREATE TABLE "nco:Role_nco:hasPostalAddress" (ID INTEGER NOT NULL, "nco:hasPostalAddress" INTEGER NOT NULL, "nco:hasPostalAddress:graph" INTEGER);
CREATE TABLE "nco:Role_nco:url" (ID INTEGER NOT NULL, "nco:url" INTEGER NOT NULL, "nco:url:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL, "nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:Role_nco:websiteUrl" (ID INTEGER NOT NULL, "nco:websiteUrl" INTEGER NOT NULL, "nco:websiteUrl:graph" INTEGER);
CREATE TABLE "nco:VideoTelephoneNumber" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nco:VoicePhoneNumber" (ID INTEGER NOT NULL PRIMARY KEY, "nco:voiceMail" INTEGER, "nco:voiceMail:graph" INTEGER);
CREATE TABLE "nfo:Application" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Archive" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:uncompressedSize" INTEGER, "nfo:uncompressedSize:graph" INTEGER);
CREATE TABLE "nfo:ArchiveItem" (ID INTEGER NOT NULL, "nfo:isPasswordProtected" INTEGER, "nfo:isPasswordProtected:graph" INTEGER);
CREATE TABLE "nfo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmark" (ID INTEGER NOT NULL, "nfo:containsBookmark" INTEGER NOT NULL, "nfo:containsBookmark:graph" INTEGER);
CREATE TABLE "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID INTEGER NOT NULL, "nfo:containsBookmarkFolder" INTEGER NOT NULL, "nfo:containsBookmarkFolder:graph" INTEGER);
CREATE TABLE "nfo:CompressionType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Cursor" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:DataContainer" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Image_nfo:depicts" (ID INTEGER NOT NULL, "nfo:depicts" INTEGER NOT NULL, "nfo:depicts:graph" INTEGER);
CREATE TABLE "nfo:Image_nfo:hasRegionOfInterest" (ID INTEGER NOT NULL, "nfo:hasRegionOfInterest" INTEGER NOT NULL, "nfo:hasRegionOfInterest:graph" INTEGER);
CREATE TABLE "nfo:MediaList" (ID INTEGER NOT NULL PRIMARY KEY, "nfo:entryCounter" INTEGER, "nfo:entryCounter:graph" INTEGER, "nfo:listDuration" INTEGER, "nfo:listDuration:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:hasMediaFileListEntry" (ID INTEGER NOT NULL, "nfo:hasMediaFileListEntry" INTEGER NOT NULL, "nfo:hasMediaFileListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaList_nfo:mediaListEntry" (ID INTEGER NOT NULL, "nfo:mediaListEntry" INTEGER NOT NULL, "nfo:mediaListEntry:graph" INTEGER);
CREATE TABLE "nfo:MediaStream" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Media_mtp:hidden" (ID INTEGER NOT NULL, "mtp:hidden" INTEGER NOT NULL, "mtp:hidden:graph" INTEGER);
CREATE TABLE "nfo:Media_nmm:alternativeMedia" (ID INTEGER NOT NULL, "nmm:alternativeMedia" INTEGER NOT NULL, "nmm:alternativeMedia:graph" INTEGER);
CREATE TABLE "nfo:MindMap" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Note" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:OperatingSystem" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nfo:Orientation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nie:InformationElement_nie:isLogicalPartOf" (ID INTEGER NOT NULL, "nie:isLogicalPartOf" INTEGER NOT NULL, "nie:isLogicalPartOf:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:keyword" (ID INTEGER NOT NULL, "nie:keyword" TEXT NOT NULL, "nie:keyword:graph" INTEGER);
CREATE TABLE "nie:InformationElement_nie:relatedTo" (ID INTEGER NOT NULL, "nie:relatedTo" INTEGER NOT NULL, "nie:relatedTo:graph" INTEGER);
CREATE TABLE "nmm:AnalogRadio" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:modulation" INTEGER, "nmm:modulation:graph" INTEGER, "nmm:frequency" INTEGER, "nmm:frequency:graph" INTEGER);
CREATE TABLE "nmm:Artist" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:artistName" TEXT COLLATE NOCASE, "nmm:artistName:graph" INTEGER);
CREATE TABLE "nmm:Flash" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:ImageList" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MeteringMode" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:MusicAlbumDisc" (ID INTEGER NOT NULL PRIMARY KEY, "nmm:albumDiscAlbum" INTEGER, "nmm:albumDiscAlbum:graph" INTEGER, "nmm:musicCDIdentifier" TEXT COLLATE NOCASE, "nmm:musicCDIdentifier:graph" INTEGER, "nmm:setNumber" INTEGER, "nmm:setNumber:graph" INTEGER);
CREATE TABLE "nmm:MusicAlbum_nmm:albumArtist" (ID INTEGER NOT NULL, "nmm:albumArtist" INTEGER NOT NULL, "nmm:albumArtist:graph" INTEGER);
CREATE TABLE "nmm:Photo" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:exposureTime" REAL, "nmm:exposureTime:graph" INTEGER, "nmm:flash"
  INTEGER, "nmm:flash:graph" INTEGER, "nmm:fnumber" REAL,
  "nmm:fnumber:graph" INTEGER, "nmm:focalLength" REAL,
  "nmm:focalLength:graph" INTEGER, "nmm:isoSpeed" REAL,
  "nmm:isoSpeed:graph" INTEGER, "nmm:isCropped" INTEGER,
  "nmm:isCropped:graph" INTEGER, "nmm:isColorCorrected" INTEGER,
  "nmm:isColorCorrected:graph" INTEGER);
CREATE TABLE "nmm:Playlist" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioModulation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmm:RadioStation" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:radioIcon" INTEGER, "nmm:radioIcon:graph" INTEGER, "nmm:radioPTY"
  INTEGER, "nmm:radioPTY:graph" INTEGER);
CREATE TABLE "nmm:RadioStation_nmm:carrier" (ID INTEGER NOT NULL,
  "nmm:carrier" INTEGER NOT NULL, "nmm:carrier:graph" INTEGER);
CREATE TABLE "nmm:SynchronizedText" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:isForHearingImpaired" INTEGER, "nmm:isForHearingImpaired:graph"
  INTEGER);
CREATE TABLE "nmm:Video" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmm:videoAlbum" INTEGER, "nmm:videoAlbum:graph" INTEGER,
  "nmm:isSeries" INTEGER, "nmm:isSeries:graph" INTEGER, "nmm:season"
  INTEGER, "nmm:season:graph" INTEGER, "nmm:episodeNumber" INTEGER,
  "nmm:episodeNumber:graph" INTEGER, "nmm:runTime" INTEGER,
  "nmm:runTime:graph" INTEGER, "nmm:synopsis" TEXT COLLATE NOCASE,
  "nmm:synopsis:graph" INTEGER, "nmm:MPAARating" TEXT COLLATE NOCASE,
  "nmm:MPAARating:graph" INTEGER, "nmm:category" TEXT COLLATE NOCASE,
  "nmm:category:graph" INTEGER, "nmm:producedBy" INTEGER,
  "nmm:producedBy:graph" INTEGER, "nmm:hasSubtitle" INTEGER,
  "nmm:hasSubtitle:graph" INTEGER, "nmm:isContentEncrypted" INTEGER,
  "nmm:isContentEncrypted:graph" INTEGER, "mtp:fourCC" TEXT COLLATE
  NOCASE, "mtp:fourCC:graph" INTEGER, "mtp:waveformat" TEXT COLLATE
  NOCASE, "mtp:waveformat:graph" INTEGER);
CREATE TABLE "nmm:Video_mtp:scantype" (ID INTEGER NOT NULL,
  "mtp:scantype" INTEGER NOT NULL, "mtp:scantype:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:director" (ID INTEGER NOT NULL,
  "nmm:director" INTEGER NOT NULL, "nmm:director:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:leadActor" (ID INTEGER NOT NULL,
  "nmm:leadActor" INTEGER NOT NULL, "nmm:leadActor:graph" INTEGER);
CREATE TABLE "nmm:Video_nmm:subtitle" (ID INTEGER NOT NULL,
  "nmm:subtitle" INTEGER NOT NULL, "nmm:subtitle:graph" INTEGER);
CREATE TABLE "nmm:WhiteBalance" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Attachment" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Call" (ID INTEGER NOT NULL PRIMARY KEY,
  "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER,
  "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER,
CREATE TABLE "nmo:CommunicationChannel" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:lastMessageDate" INTEGER, "nmo:lastMessageDate:graph" INTEGER, "nmo:lastMessageDate:localDate" INTEGER, "nmo:lastMessageDate:localTime" INTEGER, "nmo:lastSuccessfulMessageDate" INTEGER, "nmo:lastSuccessfulMessageDate:graph" INTEGER, "nmo:lastSuccessfulMessageDate:localDate" INTEGER, "nmo:lastSuccessfulMessageDate:localTime" INTEGER);
CREATE TABLE "nmo:CommunicationChannel_nmo:hasParticipant" (ID INTEGER NOT NULL, "nmo:hasParticipant" INTEGER NOT NULL, "nmo:hasParticipant:graph" INTEGER);
CREATE TABLE "nmo:Conversation" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:DeliveryStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Email" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:hasContent" INTEGER, "nmo:hasContent:graph" INTEGER, "nmo:isFlagged" INTEGER, "nmo:isFlagged:graph" INTEGER, "nmo:isRecent" INTEGER, "nmo:isRecent:graph" INTEGER, "nmo:status" TEXT COLLATE NOCASE, "nmo:status:graph" INTEGER, "nmo:responseType" TEXT COLLATE NOCASE, "nmo:responseType:graph" INTEGER);
CREATE TABLE "nmo:Email_nmo:contentMimeType" (ID INTEGER NOT NULL, "nmo:contentMimeType" TEXT NOT NULL, "nmo:contentMimeType:graph" INTEGER);
CREATE TABLE "nmo:IMMessage" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:MMSMessage" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:mmsHasContent" INTEGER, "nmo:mmsHasContent:graph" INTEGER);
CREATE TABLE "nmo:MailAccount" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:accountName" TEXT COLLATE NOCASE, "nmo:accountName:graph" INTEGER, "nmo:accountDisplayName" TEXT COLLATE NOCASE, "nmo:accountDisplayName:graph" INTEGER, "nmo:fromAddress" INTEGER, "nmo:fromAddress:graph" INTEGER, "nmo:signature" TEXT COLLATE NOCASE, "nmo:signature:graph" INTEGER);
CREATE TABLE "nmo:MailFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:folderName" TEXT COLLATE NOCASE, "nmo:folderName:graph" INTEGER, "nmo:serverCount" INTEGER, "nmo:serverCount:graph" INTEGER, "nmo:serverUnreadCount" INTEGER, "nmo:serverUnreadCount:graph" INTEGER);
CREATE TABLE "nmo:MailboxDataObject" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "nmo:Message" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:sentDate" INTEGER, "nmo:sentDate:graph" INTEGER, "nmo:sentDate:localDate" INTEGER, "nmo:sentDate:localTime" INTEGER, "nmo:from" INTEGER, "nmo:from:graph" INTEGER, "nmo:isAnswered" INTEGER, "nmo:isAnswered:graph" INTEGER, "nmo:isDeleted" INTEGER, "nmo:isDeleted:graph" INTEGER, "nmo:isDraft" INTEGER, "nmo:isDraft:graph" INTEGER, "nmo:isRead" INTEGER, "nmo:isRead:graph" INTEGER, "nmo:isSent" INTEGER, "nmo:isSent:graph" INTEGER, "nmo:isEmergency" INTEGER, "nmo:isEmergency:graph" INTEGER, "nmo:htmlMessageContent" TEXT COLLATE NOCASE,
CREATE TABLE "nmo:MessageHeader" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:headerName" TEXT COLLATE NOCASE, "nmo:headerName:graph" INTEGER, "nmo:headerValue" TEXT COLLATE NOCASE, "nmo:headerValue:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:bcc" (ID INTEGER NOT NULL, "nmo:bcc" INTEGER NOT NULL, "nmo:bcc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:cc" (ID INTEGER NOT NULL, "nmo:cc" INTEGER NOT NULL, "nmo:cc:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:hasAttachment" (ID INTEGER NOT NULL, "nmo:hasAttachment" INTEGER NOT NULL, "nmo:hasAttachment:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:inReplyTo" (ID INTEGER NOT NULL, "nmo:inReplyTo" INTEGER NOT NULL, "nmo:inReplyTo:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:messageHeader" (ID INTEGER NOT NULL, "nmo:messageHeader" INTEGER NOT NULL, "nmo:messageHeader:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:recipient" (ID INTEGER NOT NULL, "nmo:recipient" INTEGER NOT NULL, "nmo:recipient:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:references" (ID INTEGER NOT NULL, "nmo:references" INTEGER NOT NULL, "nmo:references:graph" INTEGER);
CREATE TABLE "nmo:Message_nmo:to" (ID INTEGER NOT NULL, "nmo:to" INTEGER NOT NULL, "nmo:to:graph" INTEGER);
CREATE TABLE "nmo:MimePart" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:charSet" TEXT COLLATE NOCASE, "nmo:charSet:graph" INTEGER, "nmo:contentId" TEXT COLLATE NOCASE, "nmo:contentId:graph" INTEGER, "nmo:contentTransferEncoding" TEXT COLLATE NOCASE, "nmo:contentTransferEncoding:graph" INTEGER, "nmo:contentDescription" TEXT COLLATE NOCASE, "nmo:contentDescription:graph" INTEGER, "nmo:contentDisposition" TEXT COLLATE NOCASE, "nmo:contentDisposition:graph" INTEGER);
CREATE TABLE "nmo:MimePart_nmo:mimeHeader" (ID INTEGER NOT NULL, "nmo:mimeHeader" INTEGER NOT NULL, "nmo:mimeHeader:graph" INTEGER);
| CREATE TABLE "nmo:Multipart" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nmo:Multipart_nmo:partBoundary" (ID INTEGER NOT NULL, "nmo:partBoundary" TEXT NOT NULL, "nmo:partBoundary:graph" INTEGER); |
| CREATE TABLE "nmo:PermanentChannel" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nmo:PhoneMessageFolder" (ID INTEGER NOT NULL PRIMARY KEY, "nmo:phoneMessageFolderId" TEXT COLLATE NOCASE, "nmo:phoneMessageFolderId:graph" INTEGER); |
| CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessage" (ID INTEGER NOT NULL, "nmo:containsPhoneMessage" INTEGER NOT NULL, "nmo:containsPhoneMessage:graph" INTEGER); |
| CREATE TABLE "nmo:PhoneMessageFolder_nmo:containsPhoneMessageFolder" (ID INTEGER NOT NULL, "nmo:containsPhoneMessageFolder" INTEGER NOT NULL, "nmo:containsPhoneMessageFolder:graph" INTEGER); |
| CREATE TABLE "nmo:PhoneMessage_nmo:toVCard" (ID INTEGER NOT NULL, "nmo:toVCard" INTEGER NOT NULL, "nmo:toVCard:graph" INTEGER); |
| CREATE TABLE "nmo:ReportReadStatus" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nmo:SMSMessage" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nmo:TransientChannel" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nmo:VOIPCall" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "nrl:InverseFunctionalProperty" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "osinfo:Installer" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "poi:ObjectOfInterest" (ID INTEGER NOT NULL PRIMARY KEY); |
| CREATE TABLE "rdf:Property_rdfs:subPropertyOf" (ID INTEGER NOT NULL, "rdfs:subPropertyOf" INTEGER NOT NULL, "rdfs:subPropertyOf:graph" INTEGER); |
| CREATE TABLE "rdfs:Class" (ID INTEGER NOT NULL PRIMARY KEY, "tracker:notify" INTEGER, "tracker:notify:graph" INTEGER); |
| CREATE TABLE "rdfs:Class_rdfs:subClassOf" (ID INTEGER NOT NULL, "rdfs:subClassOf" INTEGER NOT NULL, "rdfs:subClassOf:graph" INTEGER); |
CREATE TABLE "rdfs:Class_tracker:domainIndex" (ID INTEGER NOT NULL, "tracker:domainIndex" INTEGER NOT NULL, "tracker:domainIndex:graph" INTEGER);
CREATE TABLE "rdfs:Literal" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "rdfs:Resource_dc:contributor" (ID INTEGER NOT NULL, "dc:contributor" TEXT NOT NULL, "dc:contributor:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:date" (ID INTEGER NOT NULL, "dc:date" INTEGER NOT NULL, "dc:date:graph" INTEGER, "dc:date:localDate" INTEGER NOT NULL, "dc:date:localTime" INTEGER NOT NULL);
CREATE TABLE "rdfs:Resource_dc:relation" (ID INTEGER NOT NULL, "dc:relation" TEXT NOT NULL, "dc:relation:graph" INTEGER);
CREATE TABLE "rdfs:Resource_dc:source" (ID INTEGER NOT NULL, "dc:source" INTEGER NOT NULL, "dc:source:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:deprecated" (ID INTEGER NOT NULL, "nao:deprecated" INTEGER NOT NULL, "nao:deprecated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:hasTag" (ID INTEGER NOT NULL, "nao:hasTag" INTEGER NOT NULL, "nao:hasTag:graph" INTEGER);
CREATE TABLE "rdfs:Resource_nao:isRelated" (ID INTEGER NOT NULL, "nao:isRelated" INTEGER NOT NULL, "nao:isRelated:graph" INTEGER);
CREATE TABLE "rdfs:Resource_rdf:type" (ID INTEGER NOT NULL, "rdf:type" INTEGER NOT NULL, "rdf:type:graph" INTEGER);
CREATE TABLE "scal:AccessLevel" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:AttendanceStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee" (ID INTEGER NOT NULL PRIMARY KEY, "scal:attendanceStatus" INTEGER, "scal:attendanceStatus:graph" INTEGER)
CREATE TABLE "scal:AttendeeRole" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Attendee_scal:delegated-from" (ID INTEGER NOT NULL, "scal:delegated-from" INTEGER NOT NULL, "scal:delegated-from:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:delegated-to" (ID INTEGER NOT NULL, "scal:delegated-to" INTEGER NOT NULL, "scal:delegated-to:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:member" (ID INTEGER NOT NULL, "scal:member" INTEGER NOT NULL, "scal:member:graph" INTEGER);
CREATE TABLE "scal:Attendee_scal:sent-by" (ID INTEGER NOT NULL, "scal:sent-by" INTEGER NOT NULL, "scal:sent-by:graph" INTEGER);
CREATE TABLE "scal:Calendar" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:CalendarAlarm" (ID INTEGER NOT NULL PRIMARY KEY, "scal:alarmOffset" INTEGER, "scal:alarmOffset:graph" INTEGER);
CREATE TABLE "scal:CalendarAlarm_scal:alarmAttendee" (ID INTEGER NOT NULL, "scal:alarmAttendee" INTEGER NOT NULL, "scal:alarmAttendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:access" (ID INTEGER NOT NULL, "scal:access" INTEGER NOT NULL, "scal:access:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attachment" (ID INTEGER NOT NULL, "scal:attachment" INTEGER NOT NULL, "scal:attachment:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:attendee" (ID INTEGER NOT NULL, "scal:attendee" INTEGER NOT NULL, "scal:attendee:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:belongsToCalendar" (ID INTEGER NOT NULL, "scal:belongsToCalendar" INTEGER NOT NULL, "scal:belongsToCalendar:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:contact" (ID INTEGER NOT NULL, "scal:contact" INTEGER NOT NULL, "scal:contact:graph" INTEGER);
CREATE TABLE "scal:CalendarItem_scal:rrule" (ID INTEGER NOT NULL, "scal:rrule" INTEGER NOT NULL, "scal:rrule:graph" INTEGER);
CREATE TABLE "scal:CalendarUserType" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:Event" (ID INTEGER NOT NULL PRIMARY KEY, "scal:attendeeRole" INTEGER, "scal:attendeeRole:graph" INTEGER, "scal:attendeeContact" INTEGER, "scal:attendeeContact:graph" INTEGER, "scal:rsvp" INTEGER, "scal:rsvp:graph" INTEGER, "scal:calendarUserType" INTEGER, "scal:calendarUserType:graph" INTEGER);
```
"scal:eventStatus" INTEGER, "scal:eventStatus:graph" INTEGER);
CREATE TABLE "scal:EventStatus" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:Journal" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:journalStatus" INTEGER, "scal:journalStatus:graph" INTEGER);
CREATE TABLE "scal:RSVPValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:RecurrenceRule" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:recurrencePattern" TEXT COLLATE NOCASE,
"scal:recurrencePattern:graph" INTEGER, "scal:recurrenceStartDate"

INTEGER, "scal:recurrenceStartDate:graph" INTEGER, "scal:exception"
INTEGER, "scal:exception:graph" INTEGER);
CREATE TABLE "scal:TimePoint" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:dateTime" INTEGER, "scal:dateTime:graph" INTEGER,
"scal:dateTime:localDate" INTEGER, "scal:dateTime:localTime" INTEGER,
"scal:TimeZone" TEXT COLLATE NOCASE, "scal:TimeZone:graph" INTEGER);
CREATE TABLE "scal:Todo" (ID INTEGER NOT NULL PRIMARY KEY,
"scal:todoStatus" INTEGER, "scal:todoStatus:graph" INTEGER, "scal:due"
INTEGER, "scal:due:graph" INTEGER, "scal:completed" INTEGER,
"scal:completed:graph" INTEGER, "scal:percentComplete" INTEGER,
"scal:percentComplete:graph" INTEGER);
CREATE TABLE "scal:TodoStatus" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "scal:TransparencyValues" (ID INTEGER NOT NULL PRIMARY KEY);
CREATE TABLE "slo:GeoLocation" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:latitude" REAL, "slo:latitude:graph" INTEGER, "slo:longitude"
REAL, "slo:longitude:graph" INTEGER, "slo:verticalAccuracy" REAL,
"slo:verticalAccuracy:graph" INTEGER, "slo:horizontalAccuracy" REAL,
"slo:horizontalAccuracy:graph" INTEGER, "slo:altitude" REAL,
"slo:altitude:graph" INTEGER, "slo:boundingLatitudeMin" REAL,
"slo:boundingLatitudeMin:graph" INTEGER, "slo:boundingLatitudeMax"
REAL, "slo:boundingLatitudeMax:graph" INTEGER, "slo:boundingLongitudeMin"
REAL, "slo:boundingLongitudeMin:graph" INTEGER, "slo:boundingLongitudeMax"
REAL, "slo:boundingLongitudeMax:graph" INTEGER, "slo:radius"
REAL, "slo:radius:graph" INTEGER, "slo:timestamp" INTEGER,
"slo:timestamp:graph" INTEGER, "slo:timestamp:localDate" INTEGER,
"slo:timestamp:localTime" INTEGER, "slo:postalAddress" INTEGER,
"slo:postalAddress:graph" INTEGER);
CREATE TABLE "slo:Landmark" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:iconUrl" INTEGER, "slo:iconUrl:graph" INTEGER);
CREATE TABLE "slo:LandmarkCategory" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:isRemovable" INTEGER, "slo:isRemovable:graph" INTEGER,
"slo:categoryIconUrl" INTEGER, "slo:categoryIconUrl:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:belongsToCategory" (ID INTEGER NOT
NULL, "slo:belongsToCategory" INTEGER NOT NULL,
"slo:belongsToCategory:graph" INTEGER);
CREATE TABLE "slo:Landmark_slo:hasContact" (ID INTEGER NOT NULL,
"slo:hasContact" INTEGER NOT NULL, "slo:hasContact:graph" INTEGER);
CREATE TABLE "slo:Route" (ID INTEGER NOT NULL PRIMARY KEY,
"slo:belongsToCategory" INTEGER NOT NULL,
CREATE UNIQUE INDEX "ncal:Calendar_ncal:component_ID_ID" ON "ncal:Calendar_ncal:component" (ID, "ncal:component");
CREATE UNIQUE INDEX "ncal:Freebusy_ncal:freebusy_ID_ID" ON "ncal:Freebusy_ncal:freebusy" (ID, "ncal:freebusy");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byday_ID_ID" ON "ncal:RecurrenceRule_ncal:byday" (ID, "ncal:byday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byhour_ID_ID" ON "ncal:RecurrenceRule_ncal:byhour" (ID, "ncal:byhour");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byminute_ID_ID" ON "ncal:RecurrenceRule_ncal:byminute" (ID, "ncal:byminute");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonth_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonth" (ID, "ncal:bymonth");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bymonthday_ID_ID" ON "ncal:RecurrenceRule_ncal:bymonthday" (ID, "ncal:bymonthday");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysecond_ID_ID" ON "ncal:RecurrenceRule_ncal:bysecond" (ID, "ncal:bysecond");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:bysetpos_ID_ID" ON "ncal:RecurrenceRule_ncal:bysetpos" (ID, "ncal:bysetpos");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byweekno_ID_ID" ON "ncal:RecurrenceRule_ncal:byweekno" (ID, "ncal:byweekno");
CREATE UNIQUE INDEX "ncal:RecurrenceRule_ncal:byyearday_ID_ID" ON "ncal:RecurrenceRule_ncal:byyearday" (ID, "ncal:byyearday");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attach_ID_ID" ON "ncal:UnionParentClass_ncal:attach" (ID, "ncal:attach");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:attendee_ID_ID" ON "ncal:UnionParentClass_ncal:attendee" (ID, "ncal:attendee");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:categories_ID_ID" ON "ncal:UnionParentClass_ncal:categories" (ID, "ncal:categories");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exdate_ID_ID" ON "ncal:UnionParentClass_ncal:exdate" (ID, "ncal:exdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:exrule_ID_ID" ON "ncal:UnionParentClass_ncal:exrule" (ID, "ncal:exrule");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:hasAlarm_ID_ID" ON "ncal:UnionParentClass_ncal:hasAlarm" (ID, "ncal:hasAlarm");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:ncalRelation_ID_ID" ON "ncal:UnionParentClass_ncal:ncalRelation" (ID, "ncal:ncalRelation");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:rdate_ID_ID" ON "ncal:UnionParentClass_ncal:rdate" (ID, "ncal:rdate");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToChild_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToChild" (ID, "ncal:relatedToChild");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:relatedToParent_ID_ID" ON "ncal:UnionParentClass_ncal:relatedToParent" (ID, "ncal:relatedToParent");
CREATE UNIQUE INDEX "ncal:UnionParentClass_ncal:resources_ID_ID" ON "ncal:UnionParentClass_ncal:resources" (ID, "ncal:resources");
CREATE UNIQUE INDEX "nco:Role_nco:websiteUrl_ID_ID" ON "nco:Role_nco:websiteUrl" (ID, "nco:websiteUrl");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmarkFolder_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmarkFolder" (ID, "nfo:containsBookmarkFolder");
CREATE UNIQUE INDEX "nfo:BookmarkFolder_nfo:containsBookmark_ID_ID" ON "nfo:BookmarkFolder_nfo:containsBookmark" (ID, "nfo:containsBookmark");
CREATE INDEX "nfo:FileDataObject_nfo:fileLastModified" ON "nfo:FileDataObject" ("nfo:fileLastModified");
CREATE UNIQUE INDEX "nfo:Image_nfo:depicts_ID_ID" ON "nfo:Image_nfo:depicts" (ID, "nfo:depicts");
CREATE UNIQUE INDEX "nfo:Image_nfo:hasRegionOfInterest_ID_ID" ON "nfo:Image_nfo:hasRegionOfInterest" (ID, "nfo:hasRegionOfInterest");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:hasMediaFileListEntry_ID_ID" ON "nfo:MediaList_nfo:hasMediaFileListEntry" (ID, "nfo:hasMediaFileListEntry");
CREATE UNIQUE INDEX "nfo:MediaList_nfo:mediaListEntry_ID_ID" ON "nfo:MediaList_nfo:mediaListEntry" (ID, "nfo:mediaListEntry");
CREATE UNIQUE INDEX "nfo:Media_mtp:hidden_ID_ID" ON "nfo:Media_mtp:hidden" (ID, "mtp:hidden");
CREATE UNIQUE INDEX "nfo:Media_mmm:alternativeMedia_ID_ID" ON "nfo:Media_mmm:alternativeMedia" (ID, "nmm:alternativeMedia");
CREATE INDEX "nie:InformationElement_mlo:location_ID" ON "nie:InformationElement_mlo:location" (ID);
CREATE UNIQUE INDEX "nie:InformationElement_mlo:location_ID_ID" ON "nie:InformationElement_mlo:location" ("mlo:location", ID);
CREATE UNIQUE INDEX "nie:InformationElement_nao:hasProperty_ID_ID" ON "nie:InformationElement_nao:hasProperty" (ID, "nao:hasProperty");
CREATE UNIQUE INDEX "nie:InformationElement_nco:contributor_ID_ID" ON "nie:InformationElement_nco:contributor" (ID, "nco:contributor");
CREATE UNIQUE INDEX "nie:InformationElement_nco:creator_ID_ID" ON "nie:InformationElement_nco:creator" (ID, "nco:creator");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasLogicalPart_ID_ID" ON "nie:InformationElement_nie:hasLogicalPart" (ID, "nie:hasLogicalPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:hasPart_ID_ID" ON "nie:InformationElement_nie:hasPart" (ID, "nie:hasPart");
CREATE UNIQUE INDEX "nie:InformationElement_nie:informationElementDate_ID_ID" ON "nie:InformationElement_nie:informationElementDate" (ID, "nie:informationElementDate");
CREATE UNIQUE INDEX "nie:InformationElement_nie:isLogicalPartOf_ID_ID" ON "nie:InformationElement_nie:isLogicalPartOf" (ID, "nie:isLogicalPartOf");
CREATE UNIQUE INDEX "nie:InformationElement_nie:keyword_ID_ID" ON "nie:InformationElement_nie:keyword" (ID, "nie:keyword");
CREATE UNIQUE INDEX "nie:InformationElement_nie:relatedTo_ID_ID" ON "nie:InformationElement_nie:relatedTo" (ID, "nie:relatedTo");
CREATE INDEX "nie:InformationElement_slo:location" ON "nie:InformationElement" ("slo:location");
CREATE INDEX "nmm:Artist_nmm:artistName" ON "nmm:Artist" ("nmm:artistName");
CREATE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON "nmm:MusicAlbum" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicAlbum_nmm:albumArtist_ID_ID" ON "nmm:MusicAlbum_nmm:albumArtist" (ID, "nmm:albumArtist");
CREATE INDEX "nmm:MusicPiece_nie:title" ON "nmm:MusicPiece" ("nie:title");
CREATE UNIQUE INDEX "nmm:MusicPiece_nmm:lyrics_ID_ID" ON "nmm:MusicPiece_nmm:lyrics" (ID, "nmm:lyrics");
CREATE INDEX "nmm:MusicPiece_nmm:musicAlbum" ON "nmm:MusicPiece" ("nmm:musicAlbum");
CREATE INDEX "nmm:MusicPiece_nmm:performer" ON "nmm:MusicPiece" ("nmm:performer");
CREATE UNIQUE INDEX "nmm:RadioStation_nmm:carrier_ID_ID" ON "nmm:RadioStation_nmm:carrier" (ID, "nmm:carrier");
CREATE UNIQUE INDEX "nmm:Video_mtp:scantype_ID_ID" ON "nmm:Video_mtp:scantype" (ID, "mtp:scantype");
CREATE UNIQUE INDEX "nmm:Video_nmm:director_ID_ID" ON "nmm:Video_nmm:director" (ID, "nmm:director");
CREATE UNIQUE INDEX "nmm:Video_nmm:leadActor_ID_ID" ON "nmm:Video_nmm:leadActor" (ID, "nmm:leadActor");
CREATE UNIQUE INDEX "nmm:Video_nmm:subtitle_ID_ID" ON "nmm:Video_nmm:subtitle" (ID, "nmm:subtitle");
CREATE INDEX "nmo:Call_nmo:sentDate" ON "nmo:Call" ("nmo:sentDate");
CREATE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" (ID);
CREATE UNIQUE INDEX "nmo:CommunicationChannel_nmo:hasParticipant_ID_ID" ON "nmo:CommunicationChannel_nmo:hasParticipant" ("nmo:hasParticipant", ID);
CREATE INDEX "nmo:CommunicationChannel_nmo:lastMessageDate" ON "nmo:CommunicationChannel" ("nmo:lastMessageDate");
CREATE UNIQUE INDEX "nmo:Email_nmo:contentMimeType_ID_ID" ON "nmo:Email_nmo:contentMimeType" (ID, "nmo:contentMimeType");
CREATE UNIQUE INDEX "nmo:Message_nmo:bcc_ID_ID" ON "nmo:Message_nmo:bcc" (ID, "nmo:bcc");
CREATE UNIQUE INDEX "nmo:Message_nmo:cc_ID_ID" ON "nmo:Message_nmo:cc"
CREATE UNIQUE INDEX "rdfs:Resource_test:source" (ID, "dc:source") ON "rdfs:Resource_test:source";
CREATE INDEX "rdfs:Resource_test:hasTag_ID" ON "rdfs:Resource_test:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_test:hasTag_ID" ON "rdfs:Resource_test:hasTag" (ID);
CREATE UNIQUE INDEX "rdfs:Resource_test:isRelated_ID_ID" ON "rdfs:Resource_test:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resource_test:isRelated_ID_ID" ON "rdfs:Resource_test:isRelated" (ID, "nao:isRelated");
CREATE UNIQUE INDEX "rdfs:Resource_test:isRelated_ID_ID" ON "rdfs:Resource_test:isRelated" (ID, "nao:isRelated");
CREATE INDEX "rdfs:Resource_test:rdf:type_ID_ID" ON "rdfs:Resource_test:rdf:type" (ID, "rdf:type");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-from_ID_ID" ON "scal:Attendee_scal:delegated-from" (ID, "scal:delegated-from");
CREATE UNIQUE INDEX "scal:Attendee_scal:delegated-to_ID_ID" ON "scal:Attendee_scal:delegated-to" (ID, "scal:delegated-to");
CREATE UNIQUE INDEX "scal:Attendee_scal:member_ID_ID" ON "scal:Attendee_scal:member" (ID, "scal:member");
CREATE UNIQUE INDEX "scal:Attendee_scal:sent-by_ID_ID" ON "scal:Attendee_scal:sent-by" (ID, "scal:sent-by");
CREATE UNIQUE INDEX "scal:CalendarAlarm_scal:alarmAttendee_ID_ID" ON "scal:CalendarAlarm_scal:alarmAttendee" (ID, "scal:alarmAttendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:access_ID_ID" ON "scal:CalendarItem_scal:access" (ID, "scal:access");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attachment_ID_ID" ON "scal:CalendarItem_scal:attachment" (ID, "scal:attachment");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:attendee_ID_ID" ON "scal:CalendarItem_scal:attendee" (ID, "scal:attendee");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:belongsToCalendar_ID_ID" ON "scal:CalendarItem_scal:belongsToCalendar" (ID, "scal:belongsToCalendar");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:contact_ID_ID" ON "scal:CalendarItem_scal:contact" (ID, "scal:contact");
CREATE UNIQUE INDEX "scal:CalendarItem_scal:rrule_ID_ID" ON "scal:CalendarItem_scal:rrule" (ID, "scal:rrule");
CREATE INDEX "slo:GeoLocation_slo:postalAddress" ON "slo:GeoLocation" ("slo:postalAddress");
CREATE UNIQUE INDEX "slo:Landmark_slo:belongsToCategory_ID_ID" ON "slo:Landmark_slo:belongsToCategory" (ID, "slo:belongsToCategory");
CREATE UNIQUE INDEX "slo:Landmark_slo:hasContact_ID_ID" ON "slo:Landmark_slo:hasContact" (ID, "slo:hasContact");
CREATE UNIQUE INDEX "slo:Route_slo:routeDetails_ID_ID" ON "slo:Route_slo:routeDetails" (ID, "slo:routeDetails");

EXPLAIN SELECT "1_u", (SELECT "nco:fullname" FROM "nco:Contact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameFamily" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameGiven" FROM "nco:PersonContact" WHERE ID = "1_u") COLLATE NOCASE, (SELECT "nco:nameAdditional" FROM...
NOCASE) ||? COLLATE NOCASE || COALESCE((SELECT "nco:region" FROM "nco:PostalAddress" WHERE ID = "7_u") COLLATE NOCASE, ? COLLATE NOCASE), 'u') FROM (SELECT "nco:PersonContact_nco:hasAffiliation11", "nco:hasAffiliation" AS "2_u", "nco:Role_nco:hasPostalAddress12"."nco:hasPostalAddress" AS "7_u" FROM "nco:PersonContact_nco:hasAffiliation" AS "nco:PersonContact_nco:hasAffiliation11", "nco:Role_nco:hasPostalAddress" AS "nco:Role_nco:hasPostalAddress12" WHERE "1_u" = "nco:PersonContact_nco:hasAffiliation11"."ID" AND "nco:PersonContact_nco:hasAffiliation11"."nco:hasAffiliation" = "nco:Role_nco:hasPostalAddress12"."ID"), (SELECT GROUP_CONCAT("10_u" COLLATE NOCASE, ',') FROM (SELECT "nie:InformationElement_nao:hasProperty13"."nao:hasProperty" AS "8_u", "nao:Property14"."nao:propertyName" AS "9_u", "nao:Property14"."nao:propertyValue" AS "10_u" FROM "nie:InformationElement_nao:hasProperty" AS "nie:InformationElement_nao:hasProperty13", "nao:Property" AS "nao:Property14" WHERE "1_u" = "nie:InformationElement_nao:hasProperty13"."ID" AND "nie:InformationElement_nao:hasProperty13"."nao:hasProperty" = "nao:Property14"."ID" AND "9_u" IS NOT NULL AND "10_u" IS NOT NULL AND ('9_u' COLLATE NOCASE = ? COLLATE NOCASE))) FROM (SELECT "nco:PersonContact1"."ID" AS "1_u" FROM "nco:PersonContact" AS "nco:PersonContact1") ORDER BY "1_u";

} } {/.* Goto .*/}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2010 July 16
#
# The author disclaims copyright to this source code. In place of
# a legal notice, here is a blessing:
#
#  May you do good and not evil.
#  May you find forgiveness for yourself and forgive others.
#  May you share freely, never taking more than you give.
#
#******************************************************************************
#
# This file implements tests to verify that the "testable statements" in
# the lang_select.html document are correct.

set testdir [file dirname $argv0]
source $testdir/tester.tcl

if capable !compound {
    finish_test
    return
}

do_execsql_test e_select-1.0 {
    CREATE TABLE t1(a, b);
    INSERT INTO t1 VALUES('a', 'one');
    INSERT INTO t1 VALUES('b', 'two');
    INSERT INTO t1 VALUES('c', 'three');

    CREATE TABLE t2(a, b);
    INSERT INTO t2 VALUES('a', 'I');
    INSERT INTO t2 VALUES('b', 'II');
    INSERT INTO t2 VALUES('c', 'III');

    CREATE TABLE t3(a, c);
    INSERT INTO t3 VALUES('a', 1);
    INSERT INTO t3 VALUES('b', 2);

    CREATE TABLE t4(a, c);
    INSERT INTO t4 VALUES('a', NULL);
    INSERT INTO t4 VALUES('b', 2);
} {} set t1_cross_t2 [list \a one a I a one b II \a one c III b two a I \b two b II b two c III \c three a I c three b II \c three c III \]
set t1_cross_t1 [list \a one a one a one b two \a one c three b two a one \b two b two b two c three \c three a one c three b two \c three c three \]

# This proc is a specialized version of [do_execsql_test].
#
The second argument to this proc must be a SELECT statement that features a cross join of some time. Instead of the usual ",", "CROSS JOIN" or "INNER JOIN" join-op, the string %JOIN% must be substituted.

This test runs the SELECT three times - once with:

* s/%JOIN%/,
* s/%JOIN%/JOIN/
* s/%JOIN%/INNER JOIN/
* s/%JOIN%/CROSS JOIN/

and checks that each time the results of the SELECT are $res.

proc do_join_test {tn select res} {
  foreach {tn2 joinop} [list    1 ,    2 "CROSS JOIN"    3 "INNER JOIN"] {
    set S [string map [list %JOIN% $joinop] $select]
    uplevel do_execsql_test $tn.$tn2 [list $S] [list $res]
  }
}

# The following tests check that all paths on the syntax diagrams on the lang_select.html page may be taken.
# EVIDENCE-OF: R-11353-33501 -- syntax diagram join-constraint
# do_join_test e_select-0.1.1 {
#  SELECT count(*) FROM t1 %JOIN% t2 ON (t1.a=t2.a)
#  } {3}
# do_join_test e_select-0.1.2 {
#  SELECT count(*) FROM t1 %JOIN% t2 USING (a)
#  } {3}
# do_join_test e_select-0.1.3 {
#  SELECT count(*) FROM t1 %JOIN% t2
#  } {9}
# do_catchsql_test e_select-0.1.4 {
#  SELECT count(*) FROM t1, t2 ON (t1.a=t2.a) USING (a)
#  } {1 {cannot have both ON and USING clauses in the same join}}
# do_catchsql_test e_select-0.1.5 {
#  SELECT count(*) FROM t1, t2 USING (a) ON (t1.a=t2.a)
#  } {1 {near "ON": syntax error}}

# EVIDENCE-OF: R-40919-40941 -- syntax diagram select-core
# 0: SELECT ...
# 1: SELECT DISTINCT ...
# 2: SELECT ALL ...
# 0: No FROM clause
# 1: Has FROM clause
#
# 0: No WHERE clause
# 1: Has WHERE clause
#
# 0: No GROUP BY clause
# 1: Has GROUP BY clause
# 2: Has GROUP BY and HAVING clauses
#
do_select_tests e_select-0.2 {
0000.1 "SELECT 1, 2, 3 " {1 2 3}
1000.1 "SELECT DISTINCT 1, 2, 3 " {1 2 3}
2000.1 "SELECT ALL 1, 2, 3 " {1 2 3}

0100.1 "SELECT a, b, a||b FROM t1 " {
    a one aone b two btwo c three cthree
}
1100.1 "SELECT DISTINCT a, b, a||b FROM t1 " {
    a one aone b two btwo c three cthree
}
1200.1 "SELECT ALL a, b, a||b FROM t1 " {
    a one aone b two btwo c three cthree
}

0010.1 "SELECT 1, 2, 3 WHERE 1 " {1 2 3}
0010.2 "SELECT 1, 2, 3 WHERE 0 " {}
0010.3 "SELECT 1, 2, 3 WHERE NULL " {}

1010.1 "SELECT DISTINCT 1, 2, 3 WHERE 1 " {1 2 3}
2010.1 "SELECT ALL 1, 2, 3 WHERE 1 " {1 2 3}

0110.1 "SELECT a, b, a||b FROM t1 WHERE a!='x' " {
    a one aone b two btwo c three cthree
}
0110.2 "SELECT a, b, a||b FROM t1 WHERE a=='x'" {}

1110.1 "SELECT DISTINCT a, b, a||b FROM t1 WHERE a!='x' " {
    a one aone b two btwo c three cthree
}

2110.0 "SELECT ALL a, b, a||b FROM t1 WHERE a=='x'" {}

0001.1 "SELECT 1, 2, 3 GROUP BY 2" {1 2 3}
0002.1 "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
0002.2 "SELECT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}
1001.1 "SELECT DISTINCT 1, 2, 3 GROUP BY 2" {1 2 3}
1002.1 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
1002.2 "SELECT DISTINCT 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

2001.1 "SELECT ALL 1, 2, 3 GROUP BY 2" {1 2 3}
2002.1 "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)=1" {1 2 3}
2002.2 "SELECT ALL 1, 2, 3 GROUP BY 2 HAVING count(*)>1" {}

0101.1 "SELECT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
0102.1 "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {1 a 1 c 1 b}
0102.2 "SELECT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" {}

1101.1 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
1102.1 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {1 a 1 c 1 b}
1102.2 "SELECT DISTINCT count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" {}

2101.1 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b" {1 a 1 c 1 b}
2102.1 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=1" {1 a 1 c 1 b}
2102.2 "SELECT ALL count(*), max(a) FROM t1 GROUP BY b HAVING count(*)=2" {}

0011.1 "SELECT 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
0012.1 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
0012.2 "SELECT 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)>1" {}

1011.1 "SELECT DISTINCT 1, 2, 3 WHERE 0 GROUP BY 2" {}
1012.1 "SELECT DISTINCT 1, 2, 3 WHERE 1 GROUP BY 2 HAVING count(*)=1" {1 2 3}
1012.2 "SELECT DISTINCT 1, 2, 3 WHERE NULL GROUP BY 2 HAVING count(*)>1" {}

2011.1 "SELECT ALL 1, 2, 3 WHERE 1 GROUP BY 2" {1 2 3}
2012.1 "SELECT ALL 1, 2, 3 WHERE 0 GROUP BY 2 HAVING count(*)=1" {}
2012.2 "SELECT ALL 1, 2, 3 WHERE 'abc' GROUP BY 2 HAVING count(*)>1" {}

0111.1 "SELECT count(*), max(a) FROM t1 WHERE a='a' GROUP BY b" {1 a}
0112.1 "SELECT count(*), max(a) FROM t1
WHERE a='c' GROUP BY b HAVING count(*)=1" {1 c}

0112.2 "SELECT count(*), max(a) FROM t1
WHERE 0 GROUP BY b HAVING count(*)=2" { }

1111.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a<='c' GROUP BY b"
{1 a 1 b}

1112.1 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE a>'a'
GROUP BY b HAVING count(*)=1" {
 1 c 1 b
}

1112.2 "SELECT DISTINCT count(*), max(a) FROM t1 WHERE 0
GROUP BY b HAVING count(*)=2" { }

2111.1 "SELECT ALL count(*), max(a) FROM t1 WHERE b>'one' GROUP BY b"
{1 c 1 b}

2112.1 "SELECT ALL count(*), max(a) FROM t1 WHERE a!='b'
GROUP BY b HAVING count(*)=1" {
 1 a 1 c
}

2112.2 "SELECT ALL count(*), max(a) FROM t1
WHERE 0 GROUP BY b HAVING count(*)=2" { }

# EVIDENCE-OF: R-41378-26734 -- syntax diagram result-column
#
do_select_tests e_select-0.3 {
 1 "SELECT * FROM t1" {a one b two c three}
 2 "SELECT t1.* FROM t1" {a one b two c three}
 3 "SELECT 'x'||a||'x' FROM t1" {xax xbx xcx}
 4 "SELECT 'x'||a||'x' alias FROM t1" {xax xbx xcx}
 5 "SELECT 'x'||a||'x' AS alias FROM t1" {xax xbx xcx}
}

# EVIDENCE-OF: R-43129-35648 -- syntax diagram join-source
#
# EVIDENCE-OF: R-36683-37460 -- syntax diagram join-op
#
do_select_tests e_select-0.4 {
 1 "SELECT t1.rowid FROM t1" {1 2 3}
 2 "SELECT t1.rowid FROM t1,t2" {1 1 1 1 2 2 2 3 3 3}
 3 "SELECT t1.rowid FROM t1,t2,t3" {1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3}
 4 "SELECT t1.rowid FROM t1" {1 2 3}
 5 "SELECT t1.rowid FROM t1 JOIN t2" {1 1 1 1 2 2 2 3 3 3}
 6 "SELECT t1.rowid FROM t1 JOIN t2 JOIN t3"
   {1 1 1 1 1 1 2 2 2 2 2 2 3 3 3 3 3 3 3}
7 "SELECT t1.rowid FROM t1 NATURAL JOIN t3" {1 2}
8 "SELECT t1.rowid FROM t1 NATURAL LEFT OUTER JOIN t3" {1 2 3}
9 "SELECT t1.rowid FROM t1 NATURAL LEFT JOIN t3" {1 2 3}
10 "SELECT t1.rowid FROM t1 NATURAL INNER JOIN t3" {1 2}
11 "SELECT t1.rowid FROM t1 NATURAL CROSS JOIN t3" {1 2}

12 "SELECT t1.rowid FROM t1 JOIN t3" {1 1 2 2 3 3}
13 "SELECT t1.rowid FROM t1 LEFT OUTER JOIN t3" {1 1 2 2 3 3}
14 "SELECT t1.rowid FROM t1 LEFT JOIN t3" {1 1 2 2 3 3}
15 "SELECT t1.rowid FROM t1 INNER JOIN t3" {1 1 2 2 3 3}
16 "SELECT t1.rowid FROM t1 CROSS JOIN t3" {1 1 2 2 3 3}

}  

# EVIDENCE-OF: R-28308-37813 -- syntax diagram compound-operator
# 
do_select_tests e_select-0.5 {
 1 "SELECT rowid FROM t1 UNION ALL SELECT rowid+2 FROM t4" {1 2 3 3 4}
2 "SELECT rowid FROM t1 UNION SELECT rowid+2 FROM t4" {1 2 3 4}
3 "SELECT rowid FROM t1 INTERSECT SELECT rowid+2 FROM t4" {3}
4 "SELECT rowid FROM t1 EXCEPT SELECT rowid+2 FROM t4" {1 2}
}

# EVIDENCE-OF: R-06480-34950 -- syntax diagram ordering-term
# 
do_select_tests e_select-0.6 {
 1 "SELECT b||a FROM t1 ORDER BY b||a" {onea threec twob}
2 "SELECT b||a FROM t1 ORDER BY (b||a) COLLATE nocase" {onea threec twob}
3 "SELECT b||a FROM t1 ORDER BY (b||a) ASC" {onea threec twob}
4 "SELECT b||a FROM t1 ORDER BY (b||a) DESC" {twob threec onea}
}

# EVIDENCE-OF: R-23926-36668 -- syntax diagram select-stmt
# 
do_select_tests e_select-0.7 {
 1 "SELECT * FROM t1" {a one b two c three}
2 "SELECT * FROM t1 ORDER BY b" {a one c three b two}
3 "SELECT * FROM t1 ORDER BY b, a" {a one c three b two}

4 "SELECT * FROM t1 LIMIT 10" {a one b two c three}
5 "SELECT * FROM t1 LIMIT 10 OFFSET 5" {}
6 "SELECT * FROM t1 LIMIT 10, 5" {}

7 "SELECT * FROM t1 ORDER BY a LIMIT 10" {a one b two c three}
8 "SELECT * FROM t1 ORDER BY b LIMIT 10 OFFSET 5" {}
9 "SELECT * FROM t1 ORDER BY a,b LIMIT 10, 5" {}

10 "SELECT * FROM t1 UNION SELECT b, a FROM t1" {a one b two c three one a three c two b}

11 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b"
   {one a two b three c a one c three b two}
12 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b, a"
   {one a two b three c a one c three b two}
13 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10"
   {a one b two c three one a three c two b}
14 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10 OFFSET 5"
   {two b}
15 "SELECT * FROM t1 UNION SELECT b, a FROM t1 LIMIT 10, 5"
   {}
16 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a LIMIT 10"
   {a one b two c three one a three c two b}
17 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY b LIMIT 10 OFFSET 5"
   {b two}
18 "SELECT * FROM t1 UNION SELECT b, a FROM t1 ORDER BY a,b LIMIT 10, 5"
   {}

# The following tests focus on FROM clause (join) processing.
#

# EVIDENCE-OF: R-16074-54196 If the FROM clause is omitted from a simple
# SELECT statement, then the input data is implicitly a single row zero
# columns wide
#
do_select_tests e_select-1.1 {
  1 "SELECT 'abc'"            {abc}
  2 "SELECT 'abc' WHERE NULL" {}
  3 "SELECT NULL"             {{}}
  4 "SELECT count(*)"         {1}
  5 "SELECT count(*) WHERE 0" {0}
  6 "SELECT count(*) WHERE 1" {1}
}

# EVIDENCE-OF: R-48114-33255 If there is only a single table in the
# join-source following the FROM clause, then the input data used by the
# SELECT statement is the contents of the named table.
#
# The results of the SELECT queries suggest that they are operating on the
# contents of the table 'xx'.
#
do_execsql_test e_select-1.2.0 {
CREATE TABLE xx(x, y);
INSERT INTO xx VALUES('tJlIsPepMuAhU', X'10B00B897A15BAA02E3F98DCE8F2');
INSERT INTO xx VALUES(NULL, -16.87);
INSERT INTO xx VALUES(-17.89, 'linguistically');
} {}
do_select_tests e_select-1.2 {
1  "SELECT quote(x), quote(y) FROM xx" {
   'IiiIisPepMuAhU' X'10B00B897A15BAA02E3F98DCE8F2'
   NULL             -16.87
   -17.89           'linguistically'
}
2  "SELECT count(*), count(x), count(y) FROM xx" {3 2 3}
3  "SELECT sum(x), sum(y) FROM xx"               {-17.89 -16.87}
}

# EVIDENCE-OF: R-23593-12456 If there is more than one table specified
# as part of the join-source following the FROM keyword, then the
# contents of each named table are joined into a single dataset for the
# simple SELECT statement to operate on.
#
# There are more detailed tests for subsequent requirements that add
# more detail to this idea. We just add a single test that shows that
# data is coming from each of the three tables following the FROM clause
# here to show that the statement, vague as it is, is not incorrect.
#
do_select_tests e_select-1.3 {
1  "SELECT * FROM t1, t2, t3" {
   a one a I a 1 a one a I a 1 b 2 a one b II a 1
   a one b II b 2 a one c III a 1 a one c III b 2
   b two a I a 1 b two a I b 2 b two b II a 1
   b two b II b 2 b two c III a 1 b two c III b 2
   c three a I a 1 c three a I b 2 c three b II a 1
   c three b II b 2 c three c III a 1 c three c III b 2
}
}

# The following block of tests - e_select-1.4.* - test that the description
# of cartesian joins in the SELECT documentation is consistent with SQLite.
# In doing so, we test the following three requirements as a side-effect:
#
# EVIDENCE-OF: R-46122-14930 If the join-op is "CROSS JOIN", "INNER
# JOIN", "JOIN" or a comma (","), and there is no ON or USING clause,
# then the result of the join is simply the cartesian product of the
# left and right-hand datasets.
#
# The tests are built on this assertion. Really, they test that the output
# of a CROSS JOIN, JOIN, INNER JOIN or ",," join matches the expected result
# of calculating the cartesian product of the left and right-hand datasets.
#
# EVIDENCE-OF: R-46256-57243 There is no difference between the "INNER
# JOIN", "JOIN" and ",," join operators.
The "CROSS JOIN" join operator produces the same data as the "INNER JOIN", "JOIN" and "," operators.

All tests are run 4 times, with the only difference in each run being which of the 4 equivalent cartesian product join operators are used. Since the output data is the same in all cases, we consider that this qualifies as testing the two statements above.

do_execsql_test e_select-1.4.0 {
  CREATE TABLE x1(a, b);
  CREATE TABLE x2(c, d, e);
  CREATE TABLE x3(f, g, h, i);

  -- x1: 3 rows, 2 columns
  INSERT INTO x1 VALUES(24, 'converging');
  INSERT INTO x1 VALUES(NULL, X'CB71');
  INSERT INTO x1 VALUES('blonds', 'proprietary');

  -- x2: 2 rows, 3 columns
  INSERT INTO x2 VALUES(-60.06, NULL, NULL);
  INSERT INTO x2 VALUES(-58, NULL, 1.21);

  -- x3: 5 rows, 4 columns
  INSERT INTO x3 VALUES(-39.24, NULL, 'encompass', -1);
  INSERT INTO x3 VALUES('presenting', 51, 'reformation', 'dignified');
  INSERT INTO x3 VALUES('conducting', -87.24, 37.56, NULL);
  INSERT INTO x3 VALUES('coldest', -96, 'dramatists', 82.3);
  INSERT INTO x3 VALUES('alerting', NULL, -93.79, NULL);
} {}
# EVIDENCE-OF: R-44414-54710 There is a row in the cartesian product dataset formed by combining each unique combination of a row from the left-hand and right-hand datasets.
#

do_join_test e_select-1.4.2.1 {
SELECT * FROM x2 %JOIN% x3 LIMIT 1
} [concat {-60.06 {} {} {-39.24 {} encompass -1}]

# EVIDENCE-OF: R-20659-43267 In other words, if the left-hand dataset consists of Nlhs rows of Mlhs columns, and the right-hand dataset of Nrhs rows of Mrhs columns, then the cartesian product is a dataset of Nlhs.Nrhs rows, each containing Mlhs+Mrhs columns.
#

# x1, x2    (Nlhs=3, Nrhs=2)   (Mlhs=2, Mrhs=3)
do_join_test e_select-1.4.3.1 {
SELECT count(*) FROM x1 %JOIN% x2
} [expr 3*2]
do_test e_select-1.4.3.2 {
expr [[llength [execsql {SELECT * FROM x1, x2}]] / 6]
} [expr 2+3]

# x2, x3    (Nlhs=2, Nrhs=5)   (Mlhs=3, Mrhs=4)
do_join_test e_select-1.4.3.3 {
SELECT count(*) FROM x2 %JOIN% x3
} [expr 2*5]
do_test e_select-1.4.3.4 {
expr [[llength [execsql {SELECT * FROM x2 JOIN x3}]] / 10]
} [expr 3+4]

# x3, x1    (Nlhs=5, Nrhs=3)   (Mlhs=4, Mrhs=2)
do_join_test e_select-1.4.3.5 {
SELECT count(*) FROM x3 %JOIN% x1
} [expr 5*3]
do_test e_select-1.4.3.6 {
expr {llength [execsql {SELECT * FROM x3 CROSS JOIN x1}]} / 15
} [expr 4+2]

# x3, x3   (N lhs=5, N rhs=5)   (M lhs=4, M rhs=4)
do_join_test e_select-1.4.3.7 {
    SELECT count(*) FROM x3 %JOIN% x3
} [expr 5*5]
do_test e_select-1.4.3.8 {
    expr {llength [execsql {SELECT * FROM x3 INNER JOIN x3 AS x4}]} / 25
} [expr 4+4]

# Some extra cartesian product tests using tables t1 and t2.
#
do_execsql_test e_select-1.4.4.1 { SELECT * FROM t1, t2 } $t1_cross_t2
do_execsql_test e_select-1.4.4.2 { SELECT * FROM t1 AS x, t1 AS y} $t1_cross_t1
do_select_tests e_select-1.4.5 [list
  1 { SELECT * FROM t1 CROSS JOIN t2 }           $t1_cross_t2        
  2 { SELECT * FROM t1 AS y CROSS JOIN t1 AS x } $t1_cross_t1        
  3 { SELECT * FROM t1 INNER JOIN t2 }           $t1_cross_t2        
  4 { SELECT * FROM t1 AS y INNER JOIN t1 AS x } $t1_cross_t1        
]

# EVIDENCE-OF: R-22775-56496 If there is an ON clause specified, then
# the ON expression is evaluated for each row of the cartesian product
# as a boolean expression. All rows for which the expression evaluates
# to false are excluded from the dataset.
#
foreach {tn select res} [list
  1 { SELECT * FROM t1 %JOIN% t2 ON (1) }       $t1_cross_t2             
  2 { SELECT * FROM t1 %JOIN% t2 ON (0) }       [list]                   
  3 { SELECT * FROM t1 %JOIN% t2 ON (NULL) }    [list]                   
  4 { SELECT * FROM t1 %JOIN% t2 ON ('abc') }   $t1_cross_t2             
  5 { SELECT * FROM t1 %JOIN% t2 ON ('1ab') }   $t1_cross_t2             
  6 { SELECT * FROM t1 %JOIN% t2 ON (0.9) }     $t1_cross_t2             
  7 { SELECT * FROM t1 %JOIN% t2 ON (0.9') }    $t1_cross_t2             
  8 { SELECT * FROM t1 %JOIN% t2 ON (0,0) }     [list]                   

  
  9 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = t2.a) }           
    {one I two II three III} 
  10 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (t1.a = 'a') }           
    {one I one II one III} 
  11 { SELECT t1.b, t2.b FROM t1 %JOIN% t2 ON (CASE WHEN t1.a = 'a' THEN NULL ELSE 1 END) } 
    {two I two II three I three II three III}
]
{do_join_test e_select-1.3.$tn $select $res}
If there is a USING clause specified as part of the join constraint, then each of the column names specified must exist in the datasets to both the left and right of the join-op.

```
do_select_tests e_select-1.4 -error {
  cannot join using column %s - column not present in both tables
} {
  1 { SELECT * FROM t1, t3 USING (b) } "b"
  2 { SELECT * FROM t3, t1 USING (c) } "c"
  3 { SELECT * FROM t3, (SELECT a AS b, b AS c FROM t1) USING (a) } "a"
}
```

For each pair of namesake columns, the expression "lhs.X = rhs.X" is evaluated for each row of the cartesian product as a boolean expression. All rows for which one or more of the expressions evaluates to false are excluded from the result set.

```
do_select_tests e_select-1.5 {
  1 { SELECT * FROM t1, t3 USING (a) } {a one 1 b two 2}
  2 { SELECT * FROM t3, t4 USING (a,c) } {b 2}
}
```

When comparing values as a result of a USING clause, the normal rules for handling affinities, collation sequences and NULL values in comparisons apply.

```
do_execsql_test e_select-1.6.0 {
  CREATE TABLE t5(a COLLATE nocase, b COLLATE binary);
  INSERT INTO t5 VALUES('AA', 'cc');
  INSERT INTO t5 VALUES('BB', 'dd');
  INSERT INTO t5 VALUES(NULL, NULL);
  CREATE TABLE t6(a COLLATE binary, b COLLATE nocase);
  INSERT INTO t6 VALUES('aa', 'cc');
  INSERT INTO t6 VALUES('bb', 'DD');
  INSERT INTO t6 VALUES(NULL, NULL);
} {
foreach {tn select res} {
  1 { SELECT * FROM t5 %JOIN% t6 USING (a) } {AA cc cc BB dd DD}
  2 { SELECT * FROM t6 %JOIN% t5 USING (a) } {}
  3 { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) %JOIN% t5 USING (a) }
    {aa cc cc bb DD dd}
```
# EVIDENCE-OF: R-57047-10461 For each pair of columns identified by a USING clause, the column from the right-hand dataset is omitted from the joined dataset.

# EVIDENCE-OF: R-56132-15700 This is the only difference between a USING clause and its equivalent ON constraint.

foreach {tn select res} {
  1a { SELECT * FROM t1 %JOIN% t2 USING (a) }
    {a one I b two II c three III}
  1b { SELECT * FROM t1 %JOIN% t2 ON (t1.a=t2.a) }
    {a one a I b two b II c three c III}
  2a { SELECT * FROM t3 %JOIN% t4 USING (a) }
    {a 1 [ ] b 2 2}
  2b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a) }
    {a 1 a [ ] b 2 b 2}
  3a { SELECT * FROM t3 %JOIN% t4 USING (a,c) }
    {b 2}
  3b { SELECT * FROM t3 %JOIN% t4 ON (t3.a=t4.a AND t3.c=t4.c) }
    {b 2 b 2}
  4a { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x %JOIN% t5 USING (a) }
    {aa cc cc bb DD dd}
  4b { SELECT * FROM (SELECT a COLLATE nocase, b FROM t6) AS x %JOIN% t5 ON (x.a=t5.a) }
    {aa cc AA cc bb DD BB dd}
} {
  do_join_test e_select-1.6.$tn $select $res
}

# EVIDENCE-OF: R-41434-12448 If the join-op is a "LEFT JOIN" or "LEFT OUTER JOIN", then after the ON or USING filtering clauses have been applied, an extra row is added to the output for each row in the original left-hand input dataset that corresponds to no rows at all in the composite dataset (if any).

do_execsql_test e_select-1.8.0 {
  CREATE TABLE t7(a, b, c);
  CREATE TABLE t8(a, d, e);

  INSERT INTO t7 VALUES('x', 'ex', 24);
}
INSERT INTO t7 VALUES('y', 'why', 25);

INSERT INTO t8 VALUES('x', 'abc', 24);
INSERT INTO t8 VALUES('z', 'ghi', 26);
}


do_select_tests e_select-1.8 {
1a "SELECT count(*) FROM t7 JOIN t8 ON (t7.a=t8.a)" {1}
1b "SELECT count(*) FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)" {2}
2a "SELECT count(*) FROM t7 JOIN t8 USING (a)" {1}
2b "SELECT count(*) FROM t7 LEFT JOIN t8 USING (a)" {2}
}

# EVIDENCE-OF: R-15607-52988 The added rows contain NULL values in the
# columns that would normally contain values copied from the right-hand
# input dataset.
#

do_select_tests e_select-1.9 {
1a "SELECT * FROM t7 JOIN t8 ON (t7.a=t8.a)" {x ex 24 x abc 24}
1b "SELECT * FROM t7 LEFT JOIN t8 ON (t7.a=t8.a)"
   {x ex 24 x abc 24 y why 25 {} {} {}}
2a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
2b "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {} {}}
}

# EVIDENCE-OF: R-01809-52134 If the NATURAL keyword is added to any of
# the join-ops, then an implicit USING clause is added to the
# join-constraints. The implicit USING clause contains each of the
# column names that appear in both the left and right-hand input
# datasets.
#

do_select_tests e_select-1-10 {
1a "SELECT * FROM t7 JOIN t8 USING (a)" {x ex 24 abc 24}
1b "SELECT * FROM t7 NATURAL JOIN t8" {x ex 24 abc 24}
2a "SELECT * FROM t8 JOIN t7 USING (a)" {x abc 24 ex 24}
2b "SELECT * FROM t8 NATURAL JOIN t7" {x abc 24 ex 24}
3a "SELECT * FROM t7 LEFT JOIN t8 USING (a)" {x ex 24 abc 24 y why 25 {} {} {}}
3b "SELECT * FROM t7 NATURAL LEFT JOIN t8" {x ex 24 abc 24 y why 25 {} {} {}}
4a "SELECT * FROM t8 LEFT JOIN t7 USING (a)" {x abc 24 ex 24 z ghi 26 {} {} {}}
4b "SELECT * FROM t8 NATURAL LEFT JOIN t7" {x abc 24 ex 24 z ghi 26 {} {} {}}
5a "SELECT * FROM t3 JOIN t4 USING (a,c)" {b 2}
5b "SELECT * FROM t3 NATURAL JOIN t4" {b 2}
6a "SELECT * FROM t3 LEFT JOIN t4 USING (a,c)" {a 1 b 2}
6b "SELECT * FROM t3 NATURAL LEFT JOIN t4" {a 1 b 2} 

# EVIDENCE-OF: R-49566-01570 If the left and right-hand input datasets
# feature no common column names, then the NATURAL keyword has no effect
# on the results of the join.
#
# do_execsql_test e_select-1.11.0 {
  CREATE TABLE t10(x, y);
  INSERT INTO t10 VALUES(1, 'true');
  INSERT INTO t10 VALUES(0, 'false');
} {}
# do_select_tests e_select-1-11 {
  1a "SELECT a, x FROM t1 CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
  1b "SELECT a, x FROM t1 NATURAL CROSS JOIN t10" {a 1 a 0 b 1 b 0 c 1 c 0}
} }

# EVIDENCE-OF: R-39625-59133 A USING or ON clause may not be added to a
# join that specifies the NATURAL keyword.
#
# do_execsql_test e_select-1.12.$tn {
  CREATE TABLE t1(k, x, y, z);
  INSERT INTO t1 VALUES(1, 'relinquished', 'aphasia', 78.43);
  INSERT INTO t1 VALUES(2, 'X'A8E8D66F', 'X'07CF', -81);
  INSERT INTO t1 VALUES(3, -22, -27.57, NULL);
  INSERT INTO t1 VALUES(4, NULL, 'bygone', 'picky');
  INSERT INTO t1 VALUES(5, NULL, 96.28, NULL);
  INSERT INTO t1 VALUES(6, 0, 1, 2);
  CREATE TABLE t2(k, x, y2);
  INSERT INTO t2 VALUES(1, 50, 'X'B82838');
  INSERT INTO t2 VALUES(5, 84.79, 65.88);
# EVIDENCE-OF: R-06999-14330 If a WHERE clause is specified, the WHERE 
# expression is evaluated for each row in the input data as a boolean 
# expression. All rows for which the WHERE clause expression evaluates 
# to false are excluded from the dataset before continuing.

#

do_execsql_test e_select-3.1.1 { SELECT k FROM x1 WHERE x } {3}
do_execsql_test e_select-3.1.2 { SELECT k FROM x1 WHERE y } {3, 5, 6}
do_execsql_test e_select-3.1.3 { SELECT k FROM x1 WHERE z } {1, 2, 6}
do_execsql_test e_select-3.1.4 { SELECT k FROM x1 WHERE '1'||z } {1, 2, 4, 6}
do_execsql_test e_select-3.1.5 { SELECT k FROM x1 WHERE x IS NULL } {4, 5}
do_execsql_test e_select-3.1.6 { SELECT k FROM x1 WHERE z - 78.43 } {2, 4, 6}

do_execsql_test e_select-3.2.1a {
  SELECT k FROM x1 LEFT JOIN x2 USING(k)
} {1, 2, 3, 4, 5, 6}
do_execsql_test e_select-3.2.1b {
  SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k
} {1, 3, 5}
do_execsql_test e_select-3.2.2 {
  SELECT k FROM x1 LEFT JOIN x2 USING(k) WHERE x2.k IS NULL
} {2, 4, 6}
do_execsql_test e_select-3.2.3 {
  SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k
} {3}
do_execsql_test e_select-3.2.4 {
  SELECT k FROM x1 NATURAL JOIN x2 WHERE x2.k-3
} {}

#------------------------------------------

# Tests below this point are focused on verifying the testable statements 
# related to calculating the result rows of a simple SELECT statement.
#

drop_all_tables
do_execsql_test e_select-4.0 {
  CREATE TABLE z1(a, b, c);
  CREATE TABLE z2(d, e);
  CREATE TABLE z3(a, b);

  INSERT INTO z1 VALUES(51.65, -59.58, 'belfries');
  INSERT INTO z1 VALUES(-5, NULL, 75);
  INSERT INTO z1 VALUES(-2.2, -23.18, 'suiters');
  INSERT INTO z1 VALUES(NULL, 67, 'quartets');
INSERT INTO z1 VALUES(-1.04, -32.3, 'aspen');
INSERT INTO z1 VALUES(63, 'born', -26);

INSERT INTO z2 VALUES(NULL, 21);
INSERT INTO z2 VALUES(36, 6);

INSERT INTO z3 VALUES('subsistence', 'gauze');
INSERT INTO z3 VALUES(49.17, -67);
}

# EVIDENCE-OF: R-36327-17224 If a result expression is the special
# expression "*" then all columns in the input data are substituted for
# that one expression.
#
# EVIDENCE-OF: R-43693-30522 If the expression is the alias of a table
# or subquery in the FROM clause followed by ".*" then all columns from
# the named table or subquery are substituted for the single expression.
#
do_select_tests e_select-4.1 {
  1  "SELECT * FROM z1 LIMIT 1"             {51.65 -59.58 belfries}
  2  "SELECT * FROM z1,z2 LIMIT 1"          {51.65 -59.58 belfries {} 21}
  3  "SELECT z1.* FROM z1,z2 LIMIT 1"       {51.65 -59.58 belfries}
  4  "SELECT z2.* FROM z1,z2 LIMIT 1"       {{} 21}
  5  "SELECT z2.*, z1.* FROM z1,z2 LIMIT 1" {{} 21 51.65 -59.58 belfries}
  6  "SELECT count(*), * FROM z1"           {6 63 born -26}
  7  "SELECT max(a), * FROM z1"             {63 63 born -26}
  8  "SELECT *, min(a) FROM z1"             {-5 {} 75 -5}
  9  "SELECT *,* FROM z1,z2 LIMIT 1"        {
      51.65 -59.58 belfries {} 21 51.65 -59.58 belfries {} 21
    }
  10 "SELECT z1.*,z1.* FROM z2,z1 LIMIT 1"  {
      51.65 -59.58 belfries 51.65 -59.58 belfries
    }
}

# EVIDENCE-OF: R-61869-22578 It is an error to use a "*" or "alias.*"
# expression in any context other than than a result expression list.
#
# EVIDENCE-OF: R-44324-41166 It is also an error to use a "*" or
# "alias.*" expression in a simple SELECT query that does not have a
# FROM clause.
#
foreach {tn select err} {
  1.1 "SELECT a, b, c FROM z1 WHERE *"    {near "*": syntax error}
  1.2 "SELECT a, b, c FROM z1 GROUP BY *" {near "*": syntax error}
  1.3 "SELECT 1 + * FROM z1"              {near "*": syntax error}
1.4 "SELECT * + 1 FROM z1" {near "+": syntax error}  

2.1 "SELECT *" {no tables specified} 
2.2 "SELECT * WHERE 1" {no tables specified} 
2.3 "SELECT * WHERE 0" {no tables specified} 
2.4 "SELECT count(*), *" {no tables specified}  
}  
do_catchsql_test e_select-4.2.$tn $select [list 1 $err]  
}  

# EVIDENCE-OF: R-08669-22397 The number of columns in the rows returned 
# by a simple SELECT statement is equal to the number of expressions in 
# the result expression list after substitution of * and alias.* 
# expressions.  
# 
foreach {tn select nCol} {  
   1 "SELECT * FROM z1" 3  
   2 "SELECT * FROM z1 NATURAL JOIN z3" 3  
   3 "SELECT z1.* FROM z1 NATURAL JOIN z3" 3  
   4 "SELECT z3.* FROM z1 NATURAL JOIN z3" 2  
   5 "SELECT z1.*, z3.* FROM z1 NATURAL JOIN z3" 5  
   6 "SELECT 1, 2, z1.* FROM z1" 5  
   7 "SELECT a, *, b, c FROM z1" 6  
}  
set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]  
do_test e_select-4.3.$tn { sqlite3_column_count $::stmt } $nCol  
sqlite3_finalize $::stmt  
}

# In lang_select.html, a non-aggregate query is defined as any simple SELECT 
# that has no GROUP BY clause and no aggregate expressions in the result 
# expression list. Other queries are aggregate queries. Test cases 
# e_select-4.4.* through e_select-4.12.*, inclusive, which test the part of 
# simple SELECT that is different for aggregate and non-aggregate queries 
# verify (in a way) that these definitions are consistent:  
# 
# EVIDENCE-OF: R-20637-43463 A simple SELECT statement is an aggregate 
# query if it contains either a GROUP BY clause or one or more aggregate 
# functions in the result-set.  
# 
# EVIDENCE-OF: R-23155-55597 Otherwise, if a simple SELECT contains no 
# aggregate functions or a GROUP BY clause, it is a non-aggregate query.  
# 
# EVIDENCE-OF: R-44050-47362 If the SELECT statement is a non-aggregate 
# query, then each expression in the result expression list is evaluated
# for each row in the dataset filtered by the WHERE clause.
#
do_select_tests e_select-4.4 {
  1 "SELECT a, b FROM z1"
      {51.65 -59.58 -5} -2.2 -23.18 {67 -1.04 -32.3 63 born}

  2 "SELECT a IS NULL, b+1, * FROM z1" {
      0 -58.58 51.65 -59.58 belfries
      0 {} -5 {} 75
      0 -22.18 -2.2 -23.18 suiters
      1 68 {} 67 quartets
      0 -31.3 -1.04 -32.3 aspen
      0 1 63 born -26

  }

  3 "SELECT 32*32, d||e FROM z2" {1024 {} 1024 366}
}

# Test cases e_select-4.5.* and e_select-4.6.* together show that:
#
# EVIDENCE-OF: R-51988-01124 The single row of result-set data created
# by evaluating the aggregate and non-aggregate expressions in the
# result-set forms the result of an aggregate query without a GROUP BY
# clause.
#
# EVIDENCE-OF: R-57629-25253 If the SELECT statement is an aggregate
# query without a GROUP BY clause, then each aggregate expression in the
# result-set is evaluated once across the entire dataset.
#
do_select_tests e_select-4.5 {
  1 "SELECT count(a), max(a), count(b), max(b) FROM z1"      {5 63 5 born}
  2 "SELECT count(*), max(1)"                                {1 1}
  3 "SELECT sum(b+1) FROM z1 NATURAL LEFT JOIN z3"           {-43.06}
  4 "SELECT sum(b+2) FROM z1 NATURAL LEFT JOIN z3"           {-38.06}
  5 "SELECT sum(b IS NOT NULL) FROM z1 NATURAL LEFT JOIN z3" {5}
}

# EVIDENCE-OF: R-26684-40576 Each non-aggregate expression in the
# result-set is evaluated once for an arbitrarily selected row of the
# dataset.
#
# EVIDENCE-OF: R-27994-60376 The same arbitrarily selected row is used
# for each non-aggregate expression.
#
# Note: The results of many of the queries in this block of tests are
# technically undefined, as the documentation does not specify which row
# SQLite will arbitrarily select to use for the evaluation of the
# non-aggregate expressions.
#
drop_all_tables
do_execsql_test e_select-4.6.0 {
    CREATE TABLE a1(one PRIMARY KEY, two);
    INSERT INTO a1 VALUES(1, 1);
    INSERT INTO a1 VALUES(2, 3);
    INSERT INTO a1 VALUES(3, 6);
    INSERT INTO a1 VALUES(4, 10);

    CREATE TABLE a2(one PRIMARY KEY, three);
    INSERT INTO a2 VALUES(1, 1);
    INSERT INTO a2 VALUES(3, 2);
    INSERT INTO a2 VALUES(6, 3);
    INSERT INTO a2 VALUES(10, 4);
} {} 
do_select_tests e_select-4.6 {
    1  "SELECT one, two, count(*) FROM a1"                        {4 10 4}
    2  "SELECT one, two, count(*) FROM a1 WHERE one<3"            {2 3 2}
    3  "SELECT one, two, count(*) FROM a1 WHERE one>3"            {4 10 1}
    4  "SELECT *, count(*) FROM a1 JOIN a2"                       {4 10 10 4 16}
    5  "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"             {3 6 2 3}
    6  "SELECT *, sum(three) FROM a1 NATURAL JOIN a2"             {3 6 2 3}
    7  "SELECT group_concat(three, ","), a1.* FROM a1 NATURAL JOIN a2" {12 3 6}
} 

# EVIDENCE-OF: R-04486-07266 Or, if the dataset contains zero rows, then
# each non-aggregate expression is evaluated against a row consisting
# entirely of NULL values.
#
do_select_tests e_select-4.7 {
    1 "SELECT one, two, count(*) FROM a1 WHERE 0"   {} {} 0
    2 "SELECT sum(two), * FROM a1, a2 WHERE three>5" {} {} {} {} {} {} 
    3 "SELECT max(one) IS NULL, one IS NULL, two IS NULL FROM a1 WHERE two=7" 
        1 1 1
    }

# EVIDENCE-OF: R-64138-28774 An aggregate query without a GROUP BY
# clause always returns exactly one row of data, even if there are zero
# rows of input data.
#
foreach {tn select} {
    8.1 "SELECT count(*) FROM a1"
    8.2 "SELECT count(*) FROM a1 WHERE 0"
    8.3 "SELECT count(*) FROM a1 WHERE 1"


8.4 "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 1"
8.5 "SELECT max(a1.one)+min(two), a1.one, two, * FROM a1, a2 WHERE 0"

} {
# Set $nRow to the number of rows returned by $select:
set ::stmt [sqlite3_prepare_v2 db $select -1 DUMMY]
set nRow 0
while {"SQLITE_ROW" == [sqlite3_step ::stmt]} { incr nRow }
set rc [sqlite3_finalize ::stmt]

# Test that $nRow==1 and that statement execution was successful
# (rc==SQLITE_OK).
do_test e_select-4.$tn [list list $rc $nRow] {SQLITE_OK 1}
}
drop_all_tables
do_execsql_test e_select-4.9.0 {
CREATE TABLE b1(one PRIMARY KEY, two);
INSERT INTO b1 VALUES(1, 'o');
INSERT INTO b1 VALUES(4, 'f');
INSERT INTO b1 VALUES(3, 't');
INSERT INTO b1 VALUES(2, 't');
INSERT INTO b1 VALUES(5, 'f');
INSERT INTO b1 VALUES(7, 's');
INSERT INTO b1 VALUES(6, 's');
CREATE TABLE b2(x, y);
INSERT INTO b2 VALUES(NULL, 0);
INSERT INTO b2 VALUES(NULL, 1);
INSERT INTO b2 VALUES('xyz', 2);
INSERT INTO b2 VALUES('abc', 3);
INSERT INTO b2 VALUES('xyz', 4);
CREATE TABLE b3(a COLLATE nocase, b COLLATE binary);
INSERT INTO b3 VALUES('abc', 'abc');
INSERT INTO b3 VALUES('aBC', 'aBC');
INSERT INTO b3 VALUES('Def', 'Def');
INSERT INTO b3 VALUES('dEF', 'dEF');
} {}
The expressions in the GROUP BY clause do not have to be expressions that appear in the result.

```sql
do_select_tests e_select-4.9 {
  1  "SELECT group_concat(one), two FROM b1 GROUP BY two" {
    /#,# f 1 o  #,# s  #,# t/}
  2  "SELECT group_concat(one), sum(one) FROM b1 GROUP BY (one>4)" {
    1,2,3,4 10 5,6,7 18}
  3  "SELECT group_concat(one) FROM b1 GROUP BY (two>'o'), one%2" {
    4 1,5 2,6 3,7}
  4  "SELECT group_concat(one) FROM b1 GROUP BY (one==2 OR two=='o')" {
    4,3,5,7,6 1,2}
}
```

The expressions in the GROUP BY clause do not have to be expressions that appear in the result.

```sql
do_select_tests e_select-4.10 {
  1  "SELECT group_concat(y) FROM b2 GROUP BY x" {
    /#,# 3  #,#/}
  2  "SELECT count(*) FROM b2 GROUP BY CASE WHEN y<4 THEN NULL ELSE 0 END" {4 1}
}
```

For the purposes of grouping rows, NULL values are considered equal.

```sql
do_select_tests e_select-4.11 {
  1  "SELECT count(*) FROM b3 GROUP BY b" {1 1 1 1}
  2  "SELECT count(*) FROM b3 GROUP BY a" {2 2}
  3  "SELECT count(*) FROM b3 GROUP BY +b" {1 1 1 1}
  4  "SELECT count(*) FROM b3 GROUP BY +a" {2 2}
  5  "SELECT count(*) FROM b3 GROUP BY b||" {1 1 1 1}
  6  "SELECT count(*) FROM b3 GROUP BY a||" {1 1 1 1}
}
```

The expressions in a GROUP BY clause may not be aggregate expressions.

```sql
foreach {tn select} {
  12.1  "SELECT * FROM b3 GROUP BY count(*)"
  12.2  "SELECT max(a) FROM b3 GROUP BY max(b)"
  12.3  "SELECT group_concat(a) FROM b3 GROUP BY a, max(b)"
} {
  set res {1 {aggregate functions are not allowed in the GROUP BY clause}}
}
do_catchsql_test e_select-4.$tn $select $res
}

# EVIDENCE-OF: R-31537-00101 If a HAVING clause is specified, it is
evaluated once for each group of rows as a boolean expression. If the
result of evaluating the HAVING clause is false, the group is
discarded.
#
# This requirement is tested by all e_select-4.13.* tests.
#
# EVIDENCE-OF: R-04132-09474 If the HAVING clause is an aggregate
# expression, it is evaluated across all rows in the group.
#
# Tested by e_select-4.13.1.*
#
# EVIDENCE-OF: R-28262-47447 If a HAVING clause is a non-aggregate
# expression, it is evaluated with respect to an arbitrarily selected
# row from the group.
#
# Tested by e_select-4.13.2.*
#
# Tests in this block also show that this is not untrue:
#
# EVIDENCE-OF: R-55403-13450 The HAVING expression may refer to values,
even aggregate functions, that are not in the result.
#
do_execsql_test e_select-4.13.0 {
CREATE TABLE c1(up, down);
INSERT INTO c1 VALUES('x', 1);
INSERT INTO c1 VALUES('x', 2);
INSERT INTO c1 VALUES('x', 4);
INSERT INTO c1 VALUES('x', 8);
INSERT INTO c1 VALUES('y', 16);
INSERT INTO c1 VALUES('y', 32);

CREATE TABLE c2(i, j);
INSERT INTO c2 VALUES(1, 0);
INSERT INTO c2 VALUES(2, 1);
INSERT INTO c2 VALUES(3, 3);
INSERT INTO c2 VALUES(4, 6);
INSERT INTO c2 VALUES(5, 10);
INSERT INTO c2 VALUES(6, 15);
INSERT INTO c2 VALUES(7, 21);
INSERT INTO c2 VALUES(8, 28);
INSERT INTO c2 VALUES(9, 36);

CREATE TABLE c3(i PRIMARY KEY, k TEXT);
INSERT INTO c3 VALUES(1, 'hydrogen');
INSERT INTO c3 VALUES(2, 'helium');
INSERT INTO c3 VALUES(3, 'lithium');
INSERT INTO c3 VALUES(4, 'beryllium');
INSERT INTO c3 VALUES(5, 'boron');
INSERT INTO c3 VALUES(94, 'plutonium');
}

# EVIDENCE-OF: R-23927-54081 Each expression in the result-set is then
# evaluated once for each group of rows.
#
# EVIDENCE-OF: R-53735-47017 If the expression is an aggregate
# expression, it is evaluated across all rows in the group.
#
do_select_tests e_select-4.13 {
1.1 "SELECT up FROM c1 GROUP BY up HAVING count(*)>3" {x}
1.2 "SELECT up FROM c1 GROUP BY up HAVING sum(down)>16" {y}
1.3 "SELECT up FROM c1 GROUP BY up HAVING sum(down)<16" {x}
1.4 "SELECT up||down FROM c1 GROUP BY (down<5) HAVING max(down)<10" {x4}
2.1 "SELECT up FROM c1 GROUP BY up HAVING down>10" {y}
2.2 "SELECT up FROM c1 GROUP BY up HAVING up='y'"  {y}
2.3 "SELECT i, j FROM c2 GROUP BY i>4 HAVING i>6" {9 36}
}

# EVIDENCE-OF: R-62913-19830 Otherwise, it is evaluated against a single
# arbitrarily chosen row from within the group.
#
# EVIDENCE-OF: R-53924-08809 If there is more than one non-aggregate
# expression in the result-set, then all such expressions are evaluated
# for the same row.
#
do_select_tests e_select-4.15 {
1 "SELECT sum(down) FROM c1 GROUP BY up" [15 48]
2 "SELECT sum(j), max(j) FROM c2 GROUP BY (i%3)"  {54 36 27 21 39 28}
3 "SELECT sum(j), max(j) FROM c2 GROUP BY (j%2)"  {80 36 40 21}
4 "SELECT 1+sum(j), max(j)+1 FROM c2 GROUP BY (j%2)" {81 37 41 22}
5 "SELECT count(*), round(avg(i),2) FROM c1, c2 ON (i=down) GROUP BY j%2"
     {3 4.33 1 2.0}
}

# EVIDENCE-OF: R-53240-08809 If there is more than one non-aggregate
# expression in the result-set, then all such expressions are evaluated
# for the same row.
#
do_select_tests e_select-4.15 {
1 "SELECT i, j FROM c2 GROUP BY i%2"             {8 28   9 36}
2 "SELECT i, j FROM c2 GROUP BY i%2 HAVING j<30" {8 28}
3 "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
4 "SELECT i, j FROM c2 GROUP BY i%2 HAVING j>30" {9 36}
5 "SELECT count(*), i, k FROM c2 NATURAL JOIN c3 GROUP BY substr(k, 1, 1)"
     {2 5 boron 2 2 helium 1 3 lithium}
Each group of input dataset rows contributes a single row to the set of result rows.

Subject to filtering associated with the DISTINCT keyword, the number of rows returned by an aggregate query with a GROUP BY clause is the same as the number of groups of rows produced by applying the GROUP BY and HAVING clauses to the filtered input dataset.

do_select_tests e_select.4.16 -count {
    1 "SELECT i, j FROM c2 GROUP BY i%2"    2
    2 "SELECT i, j FROM c2 GROUP BY i"      9
    3 "SELECT i, j FROM c2 GROUP BY i HAVING i<5" 4
}

The following tests attempt to verify statements made regarding the ALL and DISTINCT keywords.

drop_all_tables
do_execsql_test e_select-5.1.0 {
    CREATE TABLE h1(a, b);
    INSERT INTO h1 VALUES(1, 'one');
    INSERT INTO h1 VALUES(1, 'I');
    INSERT INTO h1 VALUES(1, 'i');
    INSERT INTO h1 VALUES(4, 'four');
    INSERT INTO h1 VALUES(4, 'IV');
    INSERT INTO h1 VALUES(4, 'iv');
    CREATE TABLE h2(x COLLATE nocase);
    INSERT INTO h2 VALUES('One');
    INSERT INTO h2 VALUES('Two');
    INSERT INTO h2 VALUES('Three');
    INSERT INTO h2 VALUES('Four');
    INSERT INTO h2 VALUES('one');
    INSERT INTO h2 VALUES('two');
    INSERT INTO h2 VALUES('three');
    INSERT INTO h2 VALUES('four');
    CREATE TABLE h3(c, d);
    INSERT INTO h3 VALUES(1, NULL);
    INSERT INTO h3 VALUES(2, NULL);
    INSERT INTO h3 VALUES(3, NULL);
    INSERT INTO h3 VALUES(4, '2');
    INSERT INTO h3 VALUES(5, NULL);
    INSERT INTO h3 VALUES(6, '2,3');
INSERT INTO h3 VALUES(7, NULL);
INSERT INTO h3 VALUES(8, '2,4');
INSERT INTO h3 VALUES(9, '3');
}

# EVIDENCE-OF: R-60770-10612 One of the ALL or DISTINCT keywords may
# follow the SELECT keyword in a simple SELECT statement.
#
do_select_tests e_select-5.1 {
  1  "SELECT ALL a FROM h1"   {1 1 1 4 4 4}
  2  "SELECT DISTINCT a FROM h1" {1 4}
}

# EVIDENCE-OF: R-08861-34280 If the simple SELECT is a SELECT ALL, then
# the entire set of result rows are returned by the SELECT.
#
# EVIDENCE-OF: R-47911-02086 If neither ALL or DISTINCT are present,
# then the behavior is as if ALL were specified.
#
# EVIDENCE-OF: R-14442-41305 If the simple SELECT is a SELECT DISTINCT,
# then duplicate rows are removed from the set of result rows before it
# is returned.
#
# The three testable statements above are tested by e_select-5.2.*,  
# 5.3.* and 5.4.* respectively.
#
do_select_tests e_select-5 {
  3.1 "SELECT ALL x FROM h2" {One Two Three Four one two three four}
  3.2 "SELECT ALL x FROM h1, h2 ON (x=b)" {One one Four four}

  3.1 "SELECT x FROM h2" {One Two Three Four one two three four}
  3.2 "SELECT x FROM h1, h2 ON (x=b)" {One one Four four}

  4.1 "SELECT DISTINCT x FROM h2" {One Two Three Four}
  4.2 "SELECT DISTINCT x FROM h1, h2 ON (x=b)" {One Four}
}

# EVIDENCE-OF: R-02054-15343 For the purposes of detecting duplicate
# rows, two NULL values are considered to be equal.
#
do_select_tests e_select-5.5 {
  1  "SELECT DISTINCT d FROM h3" {{} 2 2,3 2,4 3}
}

# EVIDENCE-OF: R-58359-52112 The normal rules for selecting a collation
# sequence to compare text values with apply.
#
do_select_tests e_select-5.6 {
1  "SELECT DISTINCT b FROM h1"   {one I four IV iv}
2  "SELECT DISTINCT b COLLATE nocase FROM h1"  {one I four IV}
3  "SELECT DISTINCT x FROM h2"   {One Two Three Four}
4  "SELECT DISTINCT x COLLATE binary FROM h2" 
    One Two Three Four one two three four 
}
}

# The following tests - e_select-7.* - test that statements made to do
# with compound SELECT statements are correct.
#

# EVIDENCE-OF: R-39368-64333 In a compound SELECT, all the constituent
# SELECTs must return the same number of result columns.
#
# All the other tests in this section use compound SELECTs created
# using component SELECTs that do return the same number of columns.
# So the tests here just show that it is an error to attempt otherwise.
#
drop_all_tables
do_execsql_test e_select-7.1.0 {
  CREATE TABLE j1(a, b, c);
  CREATE TABLE j2(e, f);
  CREATE TABLE j3(g);
} {} 
do_select_tests e_select-7.1 -error {
  SELECTs to the left and right of %s do not have the same number of result columns
} {
  1  "SELECT a, b FROM j1  UNION ALL SELECT g FROM j3"   {{UNION ALL}}
  2  "SELECT * FROM j1  UNION ALL SELECT * FROM j3"   {{UNION ALL}}
  3  "SELECT a, b FROM j1  UNION ALL SELECT g FROM j3"   {{UNION ALL}}
  4  "SELECT a, b FROM j1  UNION ALL SELECT * FROM j3,j2" {{UNION ALL}}
  5  "SELECT * FROM j3,j2 UNION ALL SELECT a, b FROM j1" {{UNION ALL}}
  6  "SELECT a, b FROM j1  INTERSECT SELECT g FROM j3"    {INTERSECT}
  7  "SELECT * FROM j1  INTERSECT SELECT * FROM j3"    {INTERSECT}
  8  "SELECT a, b FROM j1  INTERSECT SELECT g FROM j3"    {INTERSECT}
  9  "SELECT a, b FROM j1  INTERSECT SELECT * FROM j3,j2" {INTERSECT}
 10  "SELECT * FROM j3,j2 INTERSECT SELECT a, b FROM j1" {INTERSECT}
 11  "SELECT a, b FROM j1  EXCEPT SELECT g FROM j3"       {EXCEPT}
 12  "SELECT * FROM j1  EXCEPT SELECT * FROM j3"       {EXCEPT}
 13  "SELECT a, b FROM j1  EXCEPT SELECT g FROM j3"       {EXCEPT}
 14  "SELECT a, b FROM j1  EXCEPT SELECT * FROM j3,j2"  {EXCEPT}
 15  "SELECT * FROM j3,j2 EXCEPT SELECT a, b FROM j1"  {EXCEPT}
 16  "SELECT a, b FROM j1  EXCEPT SELECT g FROM j3"       {EXCEPT}
"SELECT * FROM j1 EXCEPT SELECT * FROM j3"  {EXCEPT}
"SELECT a, b FROM j1 EXCEPT SELECT g FROM j3"  {EXCEPT}
"SELECT a, b FROM j1 EXCEPT SELECT * FROM j3,j2"  {EXCEPT}
"SELECT * FROM j3,j2 EXCEPT SELECT a, b FROM j1"  {EXCEPT}

# EVIDENCE-OF: R-01450-11152 As the components of a compound SELECT must be simple SELECT statements, they may not contain ORDER BY or LIMIT clauses.

foreach {tn select op1 op2} {
  "SELECT * FROM j1 ORDER BY a UNION ALL SELECT * FROM j2,j3"  {ORDER BY} {UNION ALL}
  "SELECT count(*) FROM j1 ORDER BY 1 UNION ALL SELECT max(e) FROM j2"  {ORDER BY} {UNION ALL}
  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION ALL SELECT *,* FROM j2"  {ORDER BY} {UNION ALL}
  "SELECT * FROM j1 LIMIT 10 UNION ALL SELECT * FROM j2,j3"  {LIMIT} {UNION ALL}
  "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION ALL SELECT * FROM j2,j3"  {LIMIT} {UNION ALL}
  "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION ALL SELECT g FROM j2,j3"  {LIMIT} {UNION ALL}

  "SELECT * FROM j1 ORDER BY a UNION SELECT * FROM j2,j3"  {ORDER BY} {UNION}
  "SELECT count(*) FROM j1 ORDER BY 1 UNION SELECT max(e) FROM j2"  {ORDER BY} {UNION}
  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 UNION SELECT *,* FROM j2"  {ORDER BY} {UNION}
  "SELECT * FROM j1 LIMIT 10 UNION SELECT * FROM j2,j3"  {LIMIT} {UNION}
  "SELECT * FROM j1 LIMIT 10 OFFSET 5 UNION SELECT * FROM j2,j3"  {LIMIT} {UNION}
  "SELECT a FROM j1 LIMIT (SELECT e FROM j2) UNION SELECT g FROM j2,j3"  {LIMIT} {UNION}

  "SELECT * FROM j1 ORDER BY a EXCEPT SELECT * FROM j2,j3"  {ORDER BY} {EXCEPT}
  "SELECT count(*) FROM j1 ORDER BY 1 EXCEPT SELECT max(e) FROM j2"  {ORDER BY} {EXCEPT}
  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 EXCEPT SELECT *,* FROM j2"  {ORDER BY} {EXCEPT}
  "SELECT * FROM j1 LIMIT 10 EXCEPT SELECT * FROM j2,j3"  {LIMIT} {EXCEPT}
  "SELECT * FROM j1 LIMIT 10 OFFSET 5 EXCEPT SELECT * FROM j2,j3"  {LIMIT} {EXCEPT}
  "SELECT a FROM j1 LIMIT (SELECT e FROM j2) EXCEPT SELECT g FROM j2,j3"  {LIMIT} {EXCEPT}
}
LIMIT {EXCEPT}

19  "SELECT * FROM j1 ORDER BY a INTERSECT SELECT * FROM j2,j3"
   {ORDER BY} {INTERSECT}
20  "SELECT count(*) FROM j1 ORDER BY 1 INTERSECT SELECT max(e) FROM j2"
   {ORDER BY} {INTERSECT}
21  "SELECT count(*), * FROM j1 ORDER BY 1,2,3 INTERSECT SELECT *,* FROM j2"
   {ORDER BY} {INTERSECT}
22  "SELECT * FROM j1 LIMIT 10 INTERSECT SELECT * FROM j2,j3"
   LIMIT {INTERSECT}
23  "SELECT * FROM j1 LIMIT 10 OFFSET 5 INTERSECT SELECT * FROM j2,j3"
   LIMIT {INTERSECT}
24  "SELECT a FROM j1 LIMIT (SELECT e FROM j2) INTERSECT SELECT g FROM j2,j3"
   LIMIT {INTERSECT}

} {set err "$op1 clause should come after $op2 not before"
do_catchsql_test e_select-7.2.$tn $select [list 1 $err]
} }

# EVIDENCE-OF: R-22874-32655 ORDER BY and LIMIT clauses may only occur
# at the end of the entire compound SELECT.
#
foreach {tn select} {
  1  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 ORDER BY a"
  2  "SELECT count(*) FROM j1 UNION ALL SELECT max(e) FROM j2 ORDER BY 1"
  3  "SELECT count(*), * FROM j1 UNION ALL SELECT *,* FROM j2 ORDER BY 1,2,3"
  4  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10"
  5  "SELECT * FROM j1 UNION ALL SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
  6  "SELECT a FROM j1 UNION ALL SELECT g FROM j2,j3 LIMIT (SELECT 10)"

  7  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 ORDER BY a"
  8  "SELECT count(*) FROM j1 UNION SELECT max(e) FROM j2 ORDER BY 1"
  9  "SELECT count(*), * FROM j1 UNION SELECT *,* FROM j2 ORDER BY 1,2,3"
10  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10"
11  "SELECT * FROM j1 UNION SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
12  "SELECT a FROM j1 UNION SELECT g FROM j2,j3 LIMIT (SELECT 10)"

13  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 ORDER BY a"
14  "SELECT count(*) FROM j1 EXCEPT SELECT max(e) FROM j2 ORDER BY 1"
15  "SELECT count(*), * FROM j1 EXCEPT SELECT *,* FROM j2 ORDER BY 1,2,3"
16  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10"
17  "SELECT * FROM j1 EXCEPT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
18  "SELECT a FROM j1 EXCEPT SELECT g FROM j2,j3 LIMIT (SELECT 10)"

19  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 ORDER BY a"
20  "SELECT count(*) FROM j1 INTERSECT SELECT max(e) FROM j2 ORDER BY 1"
21  "SELECT count(*), * FROM j1 INTERSECT SELECT *,* FROM j2 ORDER BY 1,2,3"
22  "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10"
23 "SELECT * FROM j1 INTERSECT SELECT * FROM j2,j3 LIMIT 10 OFFSET 5"
24 "SELECT a FROM j1 INTERSECT SELECT g FROM j2,j3 LIMIT (SELECT 10)"
} {
  do_test e_select-7.3.$tn { catch {execsql $select} msg } 0
}

# EVIDENCE-OF: R-08531-36543 A compound SELECT created using UNION ALL operator returns all the rows from the SELECT to the left of the UNION ALL operator, and all the rows from the SELECT to the right of it.
#
drop_all_tables

do_execsql_test e_select-7.4.0 {
  CREATE TABLE q1(a TEXT, b INTEGER, c);
  CREATE TABLE q2(d NUMBER, e BLOB);
  CREATE TABLE q3(f REAL, g);

  INSERT INTO q1 VALUES(16, -87.66, NULL);
  INSERT INTO q1 VALUES('legible', 94, -42.47);
  INSERT INTO q1 VALUES('beauty', 36, NULL);

  INSERT INTO q2 VALUES('legible', 1);
  INSERT INTO q2 VALUES('beauty', 2);
  INSERT INTO q2 VALUES(-65.91, 4);
  INSERT INTO q2 VALUES('emanating', -16.56);

  INSERT INTO q3 VALUES('beauty', 2);
  INSERT INTO q3 VALUES('beauty', 2);
} {}

do_select_tests e_select-7.4 {
  1 {SELECT a FROM q1 UNION ALL SELECT d FROM q2}
  {16 legible beauty legible beauty -65.91 emanating}

  2 {SELECT * FROM q1 WHERE a=16 UNION ALL SELECT 'x', * FROM q2 WHERE oid=1}
  {16 -87.66 {} x legible 1}

  3 {SELECT count(*) FROM q1 UNION ALL SELECT min(e) FROM q2}
  {3 -16.56}

  4 {SELECT * FROM q2 UNION ALL SELECT * FROM q3}
  {legible 1 beauty 2 -65.91 4 emanating -16.56 beauty 2}
}

# EVIDENCE-OF: R-20560-39162 The UNION operator works the same way as UNION ALL, except that duplicate rows are removed from the final result set.
#
do_select_tests e_select-7.5 {
  1 {SELECT a FROM q1 UNION SELECT d FROM q2}
2  {SELECT * FROM q1 WHERE a=16 UNION SELECT 'x', * FROM q2 WHERE oid=1}
   {16 -87.66 x legible 1}

3  {SELECT count(*) FROM q1 UNION SELECT min(e) FROM q2}
   {-16.56 3}

4  {SELECT * FROM q2 UNION SELECT * FROM q3}
   {-65.91 4 beauty 2 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-45764-31737 The INTERSECT operator returns the
# intersection of the results of the left and right SELECTs.
# do_select_tests e_select-7.6 {
  1  {SELECT a FROM q1 INTERSECT SELECT d FROM q2} {beauty legible}
  2  {SELECT * FROM q2 INTERSECT SELECT * FROM q3} {beauty 2}
}

# EVIDENCE-OF: R-25787-28949 The EXCEPT operator returns the subset of
# rows returned by the left SELECT that are not also returned by the
# right-hand SELECT.
# do_select_tests e_select-7.7 {
  1  {SELECT a FROM q1 EXCEPT SELECT d FROM q2} {16}
  2  {SELECT * FROM q2 EXCEPT SELECT * FROM q3}
   {-65.91 4 emanating -16.56 legible 1}
}

# EVIDENCE-OF: R-40729-56447 Duplicate rows are removed from the results
# of INTERSECT and EXCEPT operators before the result set is returned.
# do_select_tests e_select-7.8 {
  0  {SELECT * FROM q3} {beauty 2 beauty 2}
  1  {SELECT * FROM q3 INTERSECT SELECT * FROM q3} {beauty 2}
  2  {SELECT * FROM q3 EXCEPT SELECT a,b FROM q1} {beauty 2}
}

# EVIDENCE-OF: R-46765-43362 For the purposes of determining duplicate
# rows for the results of compound SELECT operators, NULL values are
# considered equal to other NULL values and distinct from all non-NULL
# values.
#
# db nullvalue null
do_select_tests e_select-7.9 {
1 {SELECT NULL UNION ALL SELECT NULL} {null null}
2 {SELECT NULL UNION SELECT NULL} {null}
3 {SELECT NULL INTERSECT SELECT NULL} {null}
4 {SELECT NULL EXCEPT SELECT NULL} {}

5 {SELECT NULL UNION ALL SELECT 'ab'} {null ab}
6 {SELECT NULL UNION SELECT 'ab'} {null ab}
7 {SELECT NULL INTERSECT SELECT 'ab'} {}
8 {SELECT NULL EXCEPT SELECT 'ab'} {null}

9 {SELECT NULL UNION ALL SELECT 0} {null 0}
10 {SELECT NULL UNION SELECT 0} {null 0}
11 {SELECT NULL INTERSECT SELECT 0} {}
12 {SELECT NULL EXCEPT SELECT 0} {null}

13 {SELECT c FROM q1 UNION ALL SELECT g FROM q3} {null -42.47 null 2 2}
14 {SELECT c FROM q1 UNION SELECT g FROM q3} {null -42.47 2}
15 {SELECT c FROM q1 INTERSECT SELECT g FROM q3} {}
16 {SELECT c FROM q1 EXCEPT SELECT g FROM q3} {null -42.47}

db nullvalue {}

# EVIDENCE-OF: R-51232-50224 The collation sequence used to compare two
text values is determined as if the columns of the left and right-hand
SELECT statements were the left and right-hand operands of the equals
# (=) operator, except that greater precedence is not assigned to a
collation sequence specified with the postfix COLLATE operator.
#
drop_all_tables
do_execsql_test e_select-7.10.0 {
CREATE TABLE y1(a COLLATE nocase, b COLLATE binary, c);
INSERT INTO y1 VALUES('Abc', 'abc', 'aBC');
}
do_select_tests e_select-7.10 {
1 {SELECT 'abc' UNION SELECT 'ABC'} {ABC abc}
2 {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC'} {ABC}
3 {SELECT 'abc' UNION SELECT 'ABC' COLLATE nocase} {ABC}
4 {SELECT 'abc' COLLATE binary UNION SELECT 'ABC' COLLATE nocase} {ABC abc}
5 {SELECT 'abc' COLLATE nocase UNION SELECT 'ABC' COLLATE binary} {ABC}

6 {SELECT a FROM y1 UNION SELECT b FROM y1} {abc}
7 {SELECT b FROM y1 UNION SELECT a FROM y1} {Abc abc}
8 {SELECT a FROM y1 UNION SELECT c FROM y1} {aBC}

9 {SELECT a FROM y1 UNION SELECT c COLLATE binary FROM y1} {aBC}
}

# EVIDENCE-OF: R-32706-07403 No affinity transformations are applied to
# any values when comparing rows as part of a compound SELECT.
#
drop_all_tables
do_execsql_test e_select-7.10.0 {
    CREATE TABLE w1(a TEXT, b NUMBER);
    CREATE TABLE w2(a, b TEXT);

    INSERT INTO w1 VALUES('1', 4.1);
    INSERT INTO w2 VALUES(1, 4.1);
}

do_select_tests e_select-7.11 {
    1  { SELECT a FROM w1 UNION SELECT a FROM w2 } {1 1}
    2  { SELECT a FROM w2 UNION SELECT a FROM w1 } {1 1}
    3  { SELECT b FROM w1 UNION SELECT b FROM w2 } {4.1 4.1}
    4  { SELECT b FROM w2 UNION SELECT b FROM w1 } {4.1 4.1}

    5  { SELECT a FROM w1 INTERSECT SELECT a FROM w2 } {}
    6  { SELECT a FROM w2 INTERSECT SELECT a FROM w1 } {}
    7  { SELECT b FROM w1 INTERSECT SELECT b FROM w2 } {}
    8  { SELECT b FROM w2 INTERSECT SELECT b FROM w1 } {}

    9  { SELECT a FROM w1 EXCEPT SELECT a FROM w2 } {1}
   10  { SELECT a FROM w2 EXCEPT SELECT a FROM w1 } {1}
   11  { SELECT b FROM w1 EXCEPT SELECT b FROM w2 } {4.1}
   12  { SELECT b FROM w2 EXCEPT SELECT b FROM w1 } {4.1}
}

# EVIDENCE-OF: R-32562-20566 When three or more simple SELECTs are
# connected into a compound SELECT, they group from left to right. In
# other words, if "A", "B" and "C" are all simple SELECT statements, (A
# op B op C) is processed as ((A op B) op C).
#
# e_select-7.12.1: Precedence of UNION vs. INTERSECT
# e_select-7.12.2: Precedence of UNION vs. UNION ALL
# e_select-7.12.3: Precedence of UNION vs. EXCEPT
# e_select-7.12.4: Precedence of INTERSECT vs. UNION ALL
# e_select-7.12.5: Precedence of INTERSECT vs. EXCEPT
# e_select-7.12.6: Precedence of UNION ALL vs. EXCEPT
# e_select-7.12.7: Check that "a EXCEPT b EXCEPT c" is processed as
#                  "(a EXCEPT b) EXCEPT c".
#
# The INTERSECT and EXCEPT operations are mutually commutative. So
# the e_select-7.12.5 test cases do not prove very much.
#
drop_all_tables
do_execsql_test e_select-7.12.0 {
CREATE TABLE t1(x);
INSERT INTO t1 VALUES(1);
INSERT INTO t1 VALUES(2);
INSERT INTO t1 VALUES(3);

foreach {tn select res} {
  1a "(1,2) INTERSECT (1) UNION (3)" [1 3]
  1b "(3) UNION (1,2) INTERSECT (1)" [1]

  2a "(1,2) UNION (3) UNION ALL (1)" [1 2 3 1]
  2b "(1) UNION ALL (3) UNION (1,2)" [1 2 3]

  3a "(1,2) UNION (3) EXCEPT (1)" [2 3]
  3b "(1,2) EXCEPT (3) UNION (1)" [1 2]

  4a "(1,2) INTERSECT (1) UNION ALL (3)" [1 3]
  4b "(3) UNION (1,2) INTERSECT (1)" [1]

  5a "(1,2) INTERSECT (2) EXCEPT (2)" {}
  5b "(2,3) EXCEPT (2) INTERSECT (2)" {}

  6a "(2) UNION ALL (2) EXCEPT (2)" {}
  6b "(2) EXCEPT (2) UNION ALL (2)" [2]

  7 "(2,3) EXCEPT (2) EXCEPT (3)" {}
} {
  set select [string map {{ SELECT x FROM t1 WHERE x IN {}} $select}]
  do_execsql_test e_select-7.12.$tn $select [list {*} $res]
}

#------------------------------------------
# ORDER BY clauses
#

drop_all_tables
do_execsql_test e_select-8.1.0 {
  CREATE TABLE d1(x, y, z);
  INSERT INTO d1 VALUES(1, 2, 3);
  INSERT INTO d1 VALUES(2, 5, -1);
  INSERT INTO d1 VALUES(1, 2, 8);
  INSERT INTO d1 VALUES(1, 2, 7);
  INSERT INTO d1 VALUES(2, 4, 93);
  INSERT INTO d1 VALUES(1, 2, -20);
  INSERT INTO d1 VALUES(1, 4, 93);
  INSERT INTO d1 VALUES(1, 5, -1);
CREATE TABLE d2(a, b);
INSERT INTO d2 VALUES('gently', 'failings');
INSERT INTO d2 VALUES('commercials', 'bathrobe');
INSERT INTO d2 VALUES('iterate', 'sexton');
INSERT INTO d2 VALUES('babied', 'charitableness');
INSERT INTO d2 VALUES('solemnness', 'annexed');
INSERT INTO d2 VALUES('rejoicing', 'liabilities');
INSERT INTO d2 VALUES('pragmatist', 'guarded');
INSERT INTO d2 VALUES('barked', 'interrupted');
INSERT INTO d2 VALUES('reemphasizes', 'reply');
INSERT INTO d2 VALUES('lad', 'relenting');
} {}
2.4 "SELECT * FROM d1 ORDER BY x DESC, y ASC, z ASC" {
    2 4 93 2 5 -1 1 2 -20 1 2 3 1 2 7 1 2 8 1 4 93 1 5 -1
}

3.1 "SELECT * FROM d1 ORDER BY x, y, z" {
    1 2 -20 1 2 3 1 2 7 1 2 8 1 4 93 1 5 -1 2 4 93 2 5 -1
}

3.3 "SELECT * FROM d1 ORDER BY x DESC, y, z DESC" {
    2 4 93 2 5 -1 1 2 3 1 2 7 1 2 8 1 4 93 1 5 -1
}

3.4 "SELECT * FROM d1 ORDER BY x DESC, y, z" {
    2 4 93 2 5 -1 1 2 3 1 2 -20 1 2 7 1 2 8 1 4 93 1 5 -1
}

3.1 "SELECT * FROM d1 ORDER BY x, y, z" {
    1 2 -20 1 2 3 1 2 7 1 2 8 1 4 93 1 5 -1 2 4 93 2 5 -1
}

# EVIDENCE-OF: R-29779-04281 If the ORDER BY expression is a constant integer K then the expression is considered an alias for the K-th column of the result set (columns are numbered from left to right starting with 1).

#

do_select_tests e_select-8.4 {
1 "SELECT * FROM d1 ORDER BY 1 ASC, 2 ASC, 3 ASC" {
    1 2 -20 1 2 3 1 2 7 1 2 8 1 4 93 1 5 -1 2 4 93 2 5 -1
}

2 "SELECT * FROM d1 ORDER BY 1 DESC, 2 DESC, 3 DESC" {
    2 5 -1 2 4 93 1 5 -1 1 4 93 1 2 8 1 2 7 1 2 3 1 2 -20
}

3 "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 DESC" {
    2 4 93 2 5 -1 1 2 8 1 2 7 1 2 3 1 2 -20 1 4 93 1 5 -1
}

4 "SELECT * FROM d1 ORDER BY 1 DESC, 2 ASC, 3 ASC" {
    2 4 93 2 5 -1 1 2 -20 1 2 3 1 2 7 1 2 8 1 4 93 1 5 -1
}

5 "SELECT * FROM d1 ORDER BY 1, 2, 3" {
    1 2 -20 1 2 3 1 2 7 1 2 8 1 4 93 1 5 -1 2 4 93 2 5 -1
}

6 "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3 DESC" {
    2 4 93 2 5 -1 1 2 8 1 2 7
}
1 2 3 1 2 -20 1 4 93 1 5 -1
}
7 "SELECT * FROM d1 ORDER BY 1 DESC, 2, 3" {
   2 4 93 2 5 -1 1 2 -20 1 2 3
   1 2 7 1 2 8 1 4 93 1 5 -1
}
8 "SELECT z, x FROM d1 ORDER BY 2" {
   /# 1 # 1 # 1 # 1
   # 1 # 1 # 2 # 2/
}
9 "SELECT z, x FROM d1 ORDER BY 1" {
   /-20 1 -1 # -1 # 3 1
   7 1 8 1 93 # 93 #/
}
#
# EVIDENCE-OF: R-63286-51977 If the ORDER BY expression is an identifier
# that corresponds to the alias of one of the output columns, then the
# expression is considered an alias for that column.
#
# do_select_tests e_select-8.5 {
1   "SELECT z+1 AS abc FROM d1 ORDER BY abc" {
   -19 0 0 4 8 9 94 94
}
2   "SELECT z+1 AS abc FROM d1 ORDER BY abc DESC" {
   94 94 9 8 4 0 0 -19
}
3   "SELECT z AS x, x AS z FROM d1 ORDER BY z" {
   /# 1 # 1 # 1 # 1 # 1 # 1 # 2 # 2/
}
4   "SELECT z AS x, x AS z FROM d1 ORDER BY x" {
   /-20 1 -1 # -1 # 3 1 7 1 8 1 93 # 93 #/
}
}
#
# EVIDENCE-OF: R-65068-27207 Otherwise, if the ORDER BY expression is
# any other expression, it is evaluated and the returned value used to
# order the output rows.
#
# # EVIDENCE-OF: R-03421-57988 If the SELECT statement is a simple SELECT,
# then an ORDER BY may contain any arbitrary expressions.
#
# do_select_tests e_select-8.6 {
1   "SELECT * FROM d1 ORDER BY x+y+z" {
   1 2 -20 1 5 -1 1 2 3 2 5 -1
   1 2 7 1 2 8 1 4 93 2 4 93
}
2   "SELECT * FROM d1 ORDER BY x*z" {
# EVIDENCE-OF: R-28853-08147 However, if the SELECT is a compound
# SELECT, then ORDER BY expressions that are not aliases to output
# columns must be exactly the same as an expression used as an output
# column.

```sql
# do_select_tests e_select-8.7.1 -error {
    %s ORDER BY term does not match any column in the result set
} {
    1 "SELECT x FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" 1st
    2 "SELECT x,z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" 2nd
}
```

```sql
# do_select_tests e_select-8.7.2 {
    1 "SELECT x*z FROM d1 UNION ALL SELECT a FROM d2 ORDER BY x*z" {
        -20 -2 -1 3 7 8 93 186 babied barked commercials gently
        iterate lad pragmatist reemphasizes rejoicing solemnness
    }
    2 "SELECT x, x/z FROM d1 UNION ALL SELECT a,b FROM d2 ORDER BY x, x/z" {
        1 -1 1 1 0 1 0 1 0 1 0 2 2 0
        babied charitableness barked interrupted commercials bathrobe gently
        failings iterate sexton lad relenting pragmatist guarded reemphasizes reply
        rejoicing liabilities solemnness annexed
    }
}
```

```sql
# doExecsql_test e_select-8.8.0 {
    CREATE TABLE d3(a);
    INSERT INTO d3 VALUES('text');
    INSERT INTO d3 VALUES(14.1);
    INSERT INTO d3 VALUES(13);
    INSERT INTO d3 VALUES(X'78787878');
    INSERT INTO d3 VALUES(15);
    INSERT INTO d3 VALUES(12.9);
    INSERT INTO d3 VALUES(null);

    CREATE TABLE d4(x COLLATE nocase);
    INSERT INTO d4 VALUES('abc');
    INSERT INTO d4 VALUES('ghi');
    INSERT INTO d4 VALUES('DEF');
```
INSERT INTO d4 VALUES('JKL');
}{}

# EVIDENCE-OF: R-10883-17697 For the purposes of sorting rows, values
# are compared in the same way as for comparison expressions.
#
# The following tests verify that values of different types are sorted
# correctly, and that mixed real and integer values are compared properly.
#
do_excsql_test e_select-8.8.1 {
    SELECT a FROM d3 ORDER BY a
}{{} 12.9 13 14.1 15 text xxxx}
do_excsql_test e_select-8.8.2 {
    SELECT a FROM d3 ORDER BY a DESC
}{{} xxxx text 15 14.1 13 12.9 {}}

# EVIDENCE-OF: R-64199-22471 If the ORDER BY expression is assigned a
# collation sequence using the postfix COLLATE operator, then the
# specified collation sequence is used.
#
do_excsql_test e_select-8.9.1 {
    SELECT x FROM d4 ORDER BY 1 COLLATE binary
}{{} DEF JKL abc ghi}
do_excsql_test e_select-8.9.2 {
    SELECT x COLLATE binary FROM d4 ORDER BY 1 COLLATE nocase
}{{} abc DEF ghi JKL}

# EVIDENCE-OF: R-09398-26102 Otherwise, if the ORDER BY expression is
# an alias to an expression that has been assigned a collation sequence
# using the postfix COLLATE operator, then the collation sequence
# assigned to the aliased expression is used.
#
# In the test 8.10.2, the only result-column expression has no alias. So the
# ORDER BY expression is not a reference to it and therefore does not inherit
# the collation sequence. In test 8.10.3, "x" is the alias (as well as the
# column name), so the ORDER BY expression is interpreted as an alias and the
# collation sequence attached to the result column is used for sorting.
#
do_excsql_test e_select-8.10.1 {
    SELECT x COLLATE binary FROM d4 ORDER BY 1
}{{} DEF JKL abc ghi}
do_excsql_test e_select-8.10.2 {
    SELECT x COLLATE binary FROM d4 ORDER BY x
}{{} abc DEF ghi JKL}
do_excsql_test e_select-8.10.3 {
    SELECT x COLLATE binary AS x FROM d4 ORDER BY x
}{{} DEF JKL abc ghi}
Otherwise, if the ORDER BY expression is a column or an alias of an expression that is a column, then the default collation sequence for the column is used.

```
do_execsql_test e_select-8.11.1 {
  SELECT x AS y FROM d4 ORDER BY y
} {abc DEF ghi JKL}
do_execsql_test e_select-8.11.2 {
  SELECT x||'' FROM d4 ORDER BY x
} {abc DEF ghi JKL}
```

Otherwise, the BINARY collation sequence is used.

```
do_execsql_test e_select-8.12.1 {
  SELECT x FROM d4 ORDER BY x||''
} {DEF JKL abc ghi}
```

If an ORDER BY expression is not an integer alias, then SQLite searches the left-most SELECT in the compound for a result column that matches either the second or third rules above. If a match is found, the search stops and the expression is handled as an alias for the result column that it has been matched against. Otherwise, the next SELECT to the right is tried, and so on.

```
do_execsql_test e_select-8.13.0 {
  CREATE TABLE d5(a, b);
  CREATE TABLE d6(c, d);
  CREATE TABLE d7(e, f);

  INSERT INTO d5 VALUES(1, 'f');
  INSERT INTO d6 VALUES(2, 'e');
  INSERT INTO d7 VALUES(3, 'd');
  INSERT INTO d5 VALUES(4, 'c');
  INSERT INTO d6 VALUES(5, 'b');
  INSERT INTO d7 VALUES(6, 'a');

  CREATE TABLE d8(x COLLATE nocase);
  CREATE TABLE d9(y COLLATE nocase);

  INSERT INTO d8 VALUES('a');
  INSERT INTO d9 VALUES('B');
  INSERT INTO d8 VALUES('c');
  INSERT INTO d9 VALUES('D');
} {}
do_select_tests e_select-8.13 {
  1  { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
```
ORDER BY a
}|{1 2 3 4 5 6|
2 | { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
ORDER BY c
}|{1 2 3 4 5 6|
3 | { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
ORDER BY e
}|{1 2 3 4 5 6|
4 | { SELECT a FROM d5 UNION ALL SELECT c FROM d6 UNION ALL SELECT e FROM d7
ORDER BY 1
}|{1 2 3 4 5 6|
5 | { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY b }
|{f 1 c 4 4 c 1 f}|
6 | { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 2 }
|{f 1 c 4 4 c 1 f}|
7 | { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY a }
|{1 f 4 c 4 c f 1}|
8 | { SELECT a, b FROM d5 UNION ALL SELECT b, a FROM d5 ORDER BY 1 }
|{1 f 4 c 4 c f 1}|
9 | { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
|{f 2 c 5 4 c 1 f}|
10 | { SELECT a, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 2 }
|{f 2 c 5 4 c 1 f}|
11 | { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY a+1 }
|{2 f 5 c 5 f 2}|
12 | { SELECT a+1, b FROM d5 UNION ALL SELECT b, a+1 FROM d5 ORDER BY 1 }
|{2 f 5 c 5 f 2}|

# EVIDENCE-OF: R-39265-04070 If no matching expression can be found in
# the result columns of any constituent SELECT, it is an error.
#
do_select_tests e_select-8.14 -error {
|%s ORDER BY term does not match any column in the result set
|
|{1 2 3 4 5 6|
1 | { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a+1 } 1st
2 | { SELECT a FROM d5 UNION SELECT c FROM d6 ORDER BY a, a+1 } 2nd
3 | { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY 'hello' } 1st
4 | { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY blah } 1st
5 | { SELECT * FROM d5 INTERSECT SELECT * FROM d6 ORDER BY c,d,c+d } 3rd
6 | { SELECT * FROM d5 EXCEPT SELECT * FROM d7 ORDER BY 1,2,b,a/b } 4th
}

# EVIDENCE-OF: R-03407-11483 Each term of the ORDER BY clause is
# processed separately and may be matched against result columns from
# different SELECT statements in the compound.
#
do_select_tests e_select-8.15 {
  1 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY a, d }
      {1 e 1 f 4 b 4 c}
  2 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY c-1, b }
      {1 e 1 f 4 b 4 c}
  3 { SELECT a, b FROM d5 UNION ALL SELECT c-1, d FROM d6 ORDER BY 1, 2 }
      {1 e 1 f 4 b 4 c}
}

#------------------------------------------------------------
# Tests related to statements made about the LIMIT/OFFSET clause.
#
do_execsql_test e_select-9.0 {
  CREATE TABLE f1(a, b);
  INSERT INTO f1 VALUES(26, 'z');
  INSERT INTO f1 VALUES(25, 'y');
  INSERT INTO f1 VALUES(24, 'x');
  INSERT INTO f1 VALUES(23, 'w');
  INSERT INTO f1 VALUES(22, 'v');
  INSERT INTO f1 VALUES(21, 'u');
  INSERT INTO f1 VALUES(20, 't');
  INSERT INTO f1 VALUES(19, 's');
  INSERT INTO f1 VALUES(18, 'r');
  INSERT INTO f1 VALUES(17, 'q');
  INSERT INTO f1 VALUES(16, 'p');
  INSERT INTO f1 VALUES(15, 'o');
  INSERT INTO f1 VALUES(14, 'n');
  INSERT INTO f1 VALUES(13, 'm');
  INSERT INTO f1 VALUES(12, 'l');
  INSERT INTO f1 VALUES(11, 'k');
  INSERT INTO f1 VALUES(10, 'j');
  INSERT INTO f1 VALUES(9, 'i');
  INSERT INTO f1 VALUES(8, 'h');
  INSERT INTO f1 VALUES(7, 'g');
  INSERT INTO f1 VALUES(6, 'f');
  INSERT INTO f1 VALUES(5, 'e');
  INSERT INTO f1 VALUES(4, 'd');
  INSERT INTO f1 VALUES(3, 'c');
  INSERT INTO f1 VALUES(2, 'b');
  INSERT INTO f1 VALUES(1, 'a');
} {}

# EVIDENCE-OF: R-30481-56627 Any scalar expression may be used in the
# LIMIT clause, so long as it evaluates to an integer or a value that
do_select_tests e_select-9.1 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 5 } {a b c d e}
  2  { SELECT b FROM f1 ORDER BY a LIMIT 2+3 } {a b c d e}
  3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT a FROM f1 WHERE b = 'e') } {a b c d e}
  4  { SELECT b FROM f1 ORDER BY a LIMIT 5.0 } {a b c d e}
  5  { SELECT b FROM f1 ORDER BY a LIMIT '5' } {a b c d e}
}

do_select_tests e_select-9.2 -error "datatype mismatch" {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 'hello' } {}
  2  { SELECT b FROM f1 ORDER BY a LIMIT NULL } {}
  3  { SELECT b FROM f1 ORDER BY a LIMIT X'ABCD' } {}
  4  { SELECT b FROM f1 ORDER BY a LIMIT 5.1 } {}
  5  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT group_concat(b) FROM f1) } {}
}

do_select_tests e_select-9.4 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT -1 } {a b c d e f g i j k l m n o p q r s t u v w x y z}
  2  { SELECT b FROM f1 ORDER BY a LIMIT length('abc')-100 } {a b c d e f g i j k l m n o p q r s t u v w x y z}
  3  { SELECT b FROM f1 ORDER BY a LIMIT (SELECT count(*) FROM f1)/2 - 14 } {a b c d e f g i j k l m n o p q r s t u v w x y z}
}

do_select_tests e_select-9.5 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 0 } {}
  2  { SELECT b FROM f1 ORDER BY a DESC LIMIT 4 } {z y x w}
  3  { SELECT b FROM f1 ORDER BY a DESC LIMIT 8 } {z y x w v u t s}
  4  { SELECT b FROM f1 ORDER BY a DESC LIMIT '12.0' } {z y x w v u t s r q p o}
}
# EVIDENCE-OF: R-54935-19057 Or, if the SELECT statement would return
# less than N rows without a LIMIT clause, then the entire result set is
# returned.
#
do_select_tests e_select-9.6 {
    1 { SELECT b FROM f1 WHERE a>21 ORDER BY a LIMIT 10 } {v w x y z}
    2 { SELECT count(*) FROM f1 GROUP BY a/5 ORDER BY 1 LIMIT 10 } {2 4 5 5 5 5}
}

# EVIDENCE-OF: R-24188-24349 The expression attached to the optional
# OFFSET clause that may follow a LIMIT clause must also evaluate to an
# integer, or a value that can be losslessly converted to an integer.
#
foreach {tn select} {
    1 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 'hello' }
    2 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET NULL }
    3 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET X'ABCD' }
    4 { SELECT b FROM f1 ORDER BY a LIMIT 2 OFFSET 5.1 }
    5 { SELECT b FROM f1 ORDER BY a
        LIMIT 2 OFFSET (SELECT group_concat(b) FROM f1)
    }
}

do_catchsql_test e_select-9.7.$tn $select {1 {datatype mismatch}}

# EVIDENCE-OF: R-20467-43422 If an expression has an OFFSET clause, then
# the first M rows are omitted from the result set returned by the
# SELECT statement and the next N rows are returned, where M and N are
# the values that the OFFSET and LIMIT clauses evaluate to,
# respectively.
#
do_select_tests e_select-9.8 {
    1 { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 5} {f g h i j k l m n o}
    2 { SELECT b FROM f1 ORDER BY a LIMIT 2+3 OFFSET 10} {k l m n o}
    3 { SELECT b FROM f1 ORDER BY a
        LIMIT (SELECT a FROM f1 WHERE b='j')
        OFFSET (SELECT a FROM f1 WHERE b='b')
    } {c d e f g h i j k l}
    4 { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 3.0 } {d e f g h}
    5 { SELECT b FROM f1 ORDER BY a LIMIT '5' OFFSET 0 } {a b c d e}
    6 { SELECT b FROM f1 ORDER BY a LIMIT 0 OFFSET 10 } {}
    7 { SELECT b FROM f1 ORDER BY a LIMIT 3 OFFSET '1'||'5' } {p q r}
}

# EVIDENCE-OF: R-34648-44875 Or, if the SELECT would return less than
# M+N rows if it did not have a LIMIT clause, then the first M rows are
# skipped and the remaining rows (if any) are returned.
do_select_tests e_select-9.9 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 10 OFFSET 20 } {u v w x y z}
  2  { SELECT a FROM f1 ORDER BY a DESC LIMIT 100 OFFSET 18+4 } {4 3 2 1}
}

# EVIDENCE-OF: R-23293-62447 If the OFFSET clause evaluates to a negative value, the results are the same as if it had evaluated to zero.

# EVIDENCE-OF: R-19509-40356 Instead of a separate OFFSET clause, the LIMIT clause may specify two scalar expressions separated by a comma.

# EVIDENCE-OF: R-33788-46243 In this case, the first expression is used as the OFFSET expression and the second as the LIMIT expression.

do_select_tests e_select-9.10 {
  1  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -1 } {a b c d e}
  2  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET -500 } {a b c d e}
  3  { SELECT b FROM f1 ORDER BY a LIMIT 5 OFFSET 0 } {a b c d e}
}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

application code is free to use these routines as well, if desired.

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-fTjl2WH1/sqlite-doc-3071700.zip-cosi-expand-archive-oxP7G8cr/sqlite-doc-3071700/34to35.html
No license file was found, but licenses were detected in source scan.

*/
** Return a pointer to the "temporary page" buffer held internally
** by the pager.  This is a buffer that is big enough to hold the
** entire content of a database page.  This buffer is used internally
** during rollback and will be overwritten whenever a rollback
** occurs.  But other modules are free to use it too, as long as
** no rollbacks are happening.
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

# 2006 September 14
#
# The author disclaims copyright to this source code.  In place of
# a legal notice, here is a blessing:
#
#   May you do good and not evil.
#   May you find forgiveness for yourself and forgive others.
#   May you share freely, never taking more than you give.
#
*************************************************************************
# This file implements regression tests for SQLite library.  The
# focus of this script is testing the FTS2 module.
#
#$Id: fts2c.test,v 1.1 2006/10/19 23:36:26 shess Exp $
#
set testdir [file dirname $argv0]
source $testdir/tester.tcl

# If SQLITE_ENABLE_FTS2 is defined, omit this file.
ifcapable !fts2 { finish_test return }
# Create a table of sample email data. The data comes from email archives of Enron executives that was published as part of the litigation against that company.

```bash
do_test fts2c-1.1 {
  db eval {
    CREATE VIRTUAL TABLE email USING fts2([from],[to],subject,body);
    BEGIN TRANSACTION;
    INSERT INTO email([from],[to],subject,body) VALUES('savita.puthigai@enron.com', 'traders.eol@enron.com, traders.eol@enron.com', 'EnronOnline- Change to Autohedge', 'Effective Monday, October 22, 2001 the following changes will be made to the Autohedge functionality on EnronOnline.

    The volume on the hedge will now respect the minimum volume and volume increment settings on the parent product. See rules below:

    ?If the transaction volume on the child is less than half of the parent’s minimum volume no hedge will occur.
    ?If the transaction volume on the child is more than half the parent’s minimum volume but less than half the volume increment on the parent, the hedge will volume will be the parent’s minimum volume.
    ?For all other volumes, the same rounding rules will apply based on the volume increment on the parent product.

    Please see example below:

    Parent’s Settings:
    Minimum: 5000
    Increment: 1000

    Volume on Autohedge transaction Volume Hedged
    1   - 24990
    2500 - 54995000
    5500 - 64996000);
    INSERT INTO email([from],[to],subject,body) VALUES('dana.davis@enron.com', 'laynie.east@enron.com, lisa.king@enron.com, lisa.best@enron.com', 'Leaving Early', 'FYI:
    If it’s ok with everyone’s needs, I would like to leave @4pm. If you think you will need my assistance past the 4 o’clock hour just let me know; I’ll be more than willing to stay.);
    INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com', 'louise.kitchen@enron.com', '<<Concur Expense Document>> - CC02.06.02', 'The following expense report is ready for approval:

    Employee Name: Christopher F. Calger
    Status last changed by: Mollie E. Gustafson Ms
    Expense Report Name: CC02.06.02
    Report Total: $3,972.93
    Amount Due Employee: $3,972.93

    To approve this expense report, click on the following link for Concur Expense.
    http://expensexms.enron.com');
```
Could you print off the current work request report by 1:30 today?

Gentlemen,

I’d like to review this today at 1:30 in our office. Also, could you provide me with your activity reports so I can have Julie enter this information.

JD);
Here is the original memo we discussed earlier. Please provide any information that you may have.

Your cooperation is greatly appreciated.

Thanks,

lachandra.fenceroy@enron.com
713.853.3884
877.498.3401 Pager

-----Original Message-----
From: Bisbee, Joanne
Sent:Wednesday, September 26, 2001 7:50 AM
To:Fenceroy, LaChandra
Subject:FW: Bus Applications Meeting Follow Up

Lachandra, Please get with David Duff today and see what this is about. Who are our TW accounting business users?

-----Original Message-----
From: Koh, Wendy
Sent:Tuesday, September 25, 2001 2:41 PM
To:Bisbee, Joanne
Subject:Bus Applications Meeting Follow Up

Lisa brought up a TW change effective Nov 1. It involves eliminating a turnback surcharge. I have no other information, but you might check with the business folks for any system changes required.

Wendy"

-----Original Message-----
From: Fagan, Fran
Sent:Thursday, December 20, 2001 11:10 AM
To:McCarty, Danny
Subject:worksheets

As discussed, attached are your sheets for bonus and merit.

Thanks,

Fran Fagan
Sr. HR Rep
713.853.5219
PLEASE SEND ME ANY REQUESTS THAT YOU HAVE FOR OCTOBER. SO FAR I HAVE THEM FOR LEAF. I WOULD LIKE TO HAVE IT DONE BY THE 15TH OF THE MONTH. ANY QUESTIONS PLEASE GIVE ME A CALL.

BERT

I spoke with Rickey (boy, is he long-winded!!). Gave him the name of our credit guy, Russell Diamond.

Thank for your help!

Jim

Here is the information on staffing and outside services. Call if you need anything else.

Greg Elliott
IIR, Inc.
713-783-5147 x 3481
outages@industrialinfo.com
You are invited to attend the EWS Brown Bag Lunch Series

Featuring: RAY BOWEN, COO

Topic: Enron Industrial Markets

Thursday, March 15, 2001
11:30 am - 12:30 pm
EB 5 C2

You bring your lunch, Limited Seating
We provide drinks and dessert. RSVP x 3-9610;

"Immer, Ingrid" <Ingrid.Immer@Williams.com> on 12/21/2000 11:48:47 AM
To: "chris.germany@enron.com" <chris.germany@enron.com>
cc:
Subject: About St Pauls

<<About St Pauls.url>>
?
?http://www.stpaulshouston.org/about.html

Chris,

I like the looks of this place. What do you think about going here Christmas eve?? They have an 11:00 a.m. service and a candlelight service at 5:00 p.m., among others.
Let me know.

- About St Pauls.

');
INSERT INTO email([from],[to],subject,body) VALUES('nas@cpuc.ca.gov', 'skatz@sempratrading.com,
kmccrea@sablaw.com, thompson@wrightlaw.com,', 'Reply Brief filed July 31, 2000', ' - CPUC01-#76371-v1-
Revised Reply_Brief__Due_today_7_31_.doc');
INSERT INTO email([from],[to],subject,body) VALUES('gascontrol@aglresources.com', 'dscott4@enron.com,
lcampbel@enron.com', 'Alert Posted 10:00 AM November 20,2000: E-GAS Request Reminder', 'Alert Posted 10:00
AM November 20,2000: E-GAS Request Reminder
As discussed in the Winter Operations Meeting on Sept.29,2000,
E-Gas(Emergency Gas) will not be offered this winter as a service from AGLC.
Marketers and Poolers can receive gas via Peaking and IBSS nominations(daisy
chain) from other marketers up to the 6 p.m. Same Day 2 nomination cycle.
');
INSERT INTO email([from],[to],subject,body) VALUES('dutch.quigley@enron.com',
'rwolkwitz@powermerchants.com', ";

Here is a goody for you):
INSERT INTO email([from],[to],subject,body) VALUES('ryan.o'o'rourke@enron.com', 'k..allen@enron.com,
randy.bhatia@enron.com, frank.ermis@enron.com,', 'TRV Notification: (West VaR - 11/07/2001), 'The report
named: West VaR
t+VaR&category_cd=2&category_name=WEST&toc_hide=1&sTV1=2&TV1Exp=Y&cur
rent_efct_date=11/07/2001>, published as of 11/07/2001 is
now available for viewing on the website.);
INSERT INTO email([from],[to],subject,body) VALUES('mjones7@txu.com', 'cstone1@txu.com,
ggreen2@txu.com, timpowell@txu.com,', 'Enron / HPL Actuals for July 10, 2000', 'Teco Tap       10.000 / Enron ;
110.000 / HPL IFERC
LS HPL LSK IC       30.000 / Enron
');
INSERT INTO email([from],[to],subject,body) VALUES('susan.pereira@enron.com', 'kw816@aol.com', 'soccer
practice', 'Kathy-
Is it safe to assume that practice is cancelled for tonight??

Susan Pereira');
INSERT INTO email([from],[to],subject,body) VALUES('mark.whitt@enron.com', 'barry.tycholiz@enron.com',
'Huber Internal Memo', 'Please look at this. I didn't know how deep to go with the desk. Do you think this works.
');
INSERT INTO email([from],[to],subject,body) VALUES('m..forney@enron.com', 'george.phillips@enron.com', ",
'George,
Give me a call and we will further discuss opportunities on the 13st floor.

Thanks,
JMForney
3-7160');
INSERT INTO email([from],[to],subject,body) VALUES('brad.mckay@enron.com', 'angusmcka@aol.com', 'Re: (no subject)', 'not yet');
INSERT INTO email([from],[to],subject,body) VALUES('adam.bayer@enron.com', 'jonathan.mckay@enron.com', 'FW: Curve Fetch File', 'Here is the curve fetch file sent to me. It has plenty of points in it. If you give me a list of which ones you need we may be able to construct a secondary worksheet to vlookup the values.

adam
35227

-----Original Message-----
From: Royed, Jeff
Sent: Tuesday, September 25, 2001 11:37 AM
To: Bayer, Adam
Subject: Curve Fetch File

Let me know if it works. It may be required to have a certain version of Oracle for it to work properly.

Jeff Royed
Enron
Energy Operations
Phone: 713-853-5295');
INSERT INTO email([from],[to],subject,body) VALUES('matt.smith@enron.com', 'yan.wang@enron.com', 'Report Formats', 'Yan,
The merged reports look great. I believe the only orientation changes are to "unmerge" the following six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2
23 West_3
25 CIG_WIC

The orientation of the individual reports should be correct. Thanks.

Mat

PS. Just a reminder to add the "*" by the title of calculated points.');
INSERT INTO email([from],[to],subject,body) VALUES('michelle.lokay@enron.com', 'jimboman@bigfoot.com', 'Egyptian Festival', '---------------------- Forwarded by Michelle Lokay/ET&S/Enron on 09/07/2000 10:08 AM ---------------------------
"Karkour, Randa" <Randa.Karkour@COMPAQ.com> on 09/07/2000 09:01:04 AM
To: ""Agheb (E-mail)" <Agheb@aol.com>, "Leila Mankarious (E-mail)"
<Leila_Mankarious@mhhs.org>, ""Marymankarious (E-mail)"
 marymankarious@aol.com>, "Michelle lokay (E-mail)" <mlokay@enron.com>, "Ramy Mankarious (E-mail)" <Mankarious@aol.com>
cc:

Subject: Egyptian Festival

<<Egyptian Festival.url>>

http://www.egyptianfestival.com/

- Egyptian Festival.url
'));

INSERT INTO email([from],[to],subject,body) VALUES('errol.mclaughlin@enron.com',
'sherry.dawson@enron.com', 'Urgent!!! --- New EAST books', 'This has to be done.................................

Thanks

---------------------- Forwarded by Errol McLaughlin/Corp/Enron on 12/20/2000
08:39 AM ---------------------------

From: William Kelly @ ECT 12/20/2000 08:31 AM

To: Kam Keiser/HOU/ECT@ECT, Darron C Giron/HOU/ECT@ECT, David Baumbach/HOU/ECT@ECT, Errol McLaughlin/Corp/Enron@ENRON
cc: Kimat Singla/HOU/ECT@ECT, Kulvinder Fowler/NA/Enron@ENRON, Kyle R Lilly/HOU/ECT@ECT, Jeff Royed/Corp/Enron@ENRON, Alejandra Chavez/NA/Enron@ENRON, Crystal Hyde/HOU/ECT@ECT

Subject: New EAST books

We have new book names in TAGG for our intramonth portfolios and it is extremely important that any deal booked to the East is communicated quickly to someone on my team. I know it will take some time for the new names to sink in and I do not want us to miss any positions or P&L.

Thanks for your help on this.

New:
Scott Neal : East Northeast
Dick Jenkins: East Marketeast

WK
An inactive Child with links to Parent products will not have their calculated prices updated until the Child product is Activated.

When the Child Product is activated, the price will be recalculated and updated BEFORE it is displayed on the web.

This means that if you are inputting a basis price on a Child product, you will not see the final, calculated price until you Activate the product, at which time the customer will also see it.

If you have any questions, please contact the Help Desk on:

Americas: 713 853 4357
Europe: + 44 (0) 20 7783 7783
Asia/Australia: +61 2 9229 2300

Dave'};
INSERT INTO email([from],[to],subject,body) VALUES('vince.kaminski@enron.com', 'jhh1@email.msn.com', 'Re: Light reading - see pieces beginning on page 7', 'John,
I saw it. Very interesting.

Vince

"John H Herbert" <jhh1@email.msn.com> on 07/28/2000 08:38:08 AM
To: "Vince J Kaminski" <Vince_J_Kaminski@enron.com>
cc: Subject: Light reading - see pieces beginning on page 7

Cheers and have a nice weekend,

JHHerbert

- gd000728.pdf
INSERT INTO email([from],[to],subject,body) VALUES('matthew.lenhart@enron.com', 'mmmarcantel@equiva.com', 'RE: ', 'i will try to line up a pig for you ');
INSERT INTO email([from],[to],subject,body) VALUES('jae.black@enron.com', 'claudette.harvey@enron.com, chaun.roberts@enron.com, judy.martinez@enron.com.', 'Disaster Recovery Equipment', 'As a reminder...there are several pieces of equipment that are set up on the 30th Floor, as well as on our floor, for the Disaster Recovery Team.  PLEASE DO NOT TAKE, BORROW OR USE this equipment.  Should you need to use another computer system, other than yours, or make conference calls please work with your Assistant to help find or set up equipment for you to use.

Thanks for your understanding in this matter.

T.Jae Black
East Power Trading
Assistant to Kevin Presto
off. 713-853-5800
fax 713-646-8272
cell 713-539-4760);
INSERT INTO email([from],[to],subject,body) VALUES('eric.bass@enron.com', 'dale.neuner@enron.com', '5 X 24', 'Dale,

Have you heard anything more on the 5 X 24s? We would like to get this product out ASAP.

Thanks,

Eric.');
INSERT INTO email([from],[to],subject,body) VALUES('messenger@smartreminders.com', 'm.,tholt@enron.com', '10% Coupon - PrintPal Printer Cartridges - 100% Guaranteed', '[IMAGE]

Dear SmartReminders Member,

[IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE] [IMAGE]


We respect your privacy and are a Certified Participant of the BBBOnLine Privacy Program. To be removed from future offers, click here.

SmartReminders.com is a permission based service. To unsubscribe click here.

INSERT INTO email([from],[to],subject,body) VALUES('benjamin.rogers@enron.com',
'mark.bernstein@enron.com', ", 'The guy you are talking about left CIN under a "cloud of suspicion" sort of speak. He was the one who got into several bad deals and PPA's in California for CIN, thus he left on a bad note. Let me know if you need more detail than that, I felt this was the type of info you were looking for. Thanks!

Ben');

INSERT INTO email([from],[to],subject,body) VALUES('enron_update@concureworkplace.com',
'michelle.cash@enron.com', 'Expense Report Receipts Not Received', 'Employee Name: Michelle Cash
Report Name: Houston Cellular 8-11-01
Report Date: 12/13/01
Report ID: 594D37C9ED2111D5B452
Submitted On: 12/13/01

You are only allowed 2 reports with receipts outstanding. Your expense reports will not be paid until you meet this requirement.');

INSERT INTO email([from],[to],subject,body) VALUES('susan.mara@enron.com', 'ray.alvarez@enron.com,
mark.palmer@enron.com, karen.denne@enron.com', 'CAISO Emergency Motion -- to discontinue market-based rates for', 'FYI. the latest broadside against the generators.

Sue Mara
Enron Corp.
Tel: (415) 782-7802
Fax:(415) 782-7854
----- Forwarded by Susan J Mara/NA/Enron on 06/08/2001 12:24 PM -----

"Milner, Marcie" <MMilner@coral-energy.com> 06/08/2001 11:13 AM To: ""smara@enron.com"
<smara@enron.com> cc: Subject: CAISO Emergency Motion

Sue, did you see this emergency motion the CAISO filed today? Apparently they are requesting that FERC discontinue market-based rates immediately and grant refunds plus interest on the difference between cost-based rates and market revenues received back to May 2000. They are requesting the commission act within 14 days. Have you heard anything about what they are doing?
Marcie


');
INSERT INTO email([from],[to],subject,body) VALUES('fletcher.sturm@enron.com', 'eloy.escobar@enron.com', 'Re: General Brinks Position Meeting', 'Eloy,

Who is General Brinks?

Fletch');
INSERT INTO email([from],[to],subject,body) VALUES('nailia.dindarova@enron.com', 'richard.shapiro@enron.com', 'Documents for Mark Frevert (on EU developments and lessons from', 'Rick,

Here are the documents that Peter has prepared for Mark Frevert.

Nailia
---------------------- Forwarded by Nailia Dindarova/LON/ECT on 25/06/2001 16:36 ---------------------------

Nailia Dindarova
25/06/2001 15:36
To: Michael Brown/Enron@EUEnronXGate
cc: Ross Sankey/Enron@EUEnronXGate, Eric Shaw/ENRON@EUEnronXGate, Peter Styles/LON/ECT@ECT

Subject: Documents for Mark Frevert (on EU developments and lessons from California)

Michael,

These are the documents that Peter promised to give to you for Mark Frevert. He has now handed them to him in person but asked me to transmit them electronically to you, as well as Eric and Ross.

Nailia

');
INSERT INTO email([from],[to],subject,body) VALUES('peggy.a.kostial@accenture.com', 'dave.samuels@enron.com', 'EOL-Accenture Deal Sheet', 'Dave -

Attached are our comments and suggested changes. Please call to review.
On the time line for completion, we have four critical steps to complete:

- Finalize market analysis to refine business case, specifically projected revenue stream
- Complete counterparty surveying, including targeting 3 CPs for letters of intent
- Review Enron asset base for potential reuse/licensing
- Contract negotiations

Joe will come back to us with an updated time line, but it is my expectation that we are still on the same schedule (we just begun week three) with possibly a week or so slippage.....contract negotiations will probably be the critical path.

We will send our cut at the actual time line here shortly. Thanks,

Peggy

(See attached file: accenture-dealpoints v2.doc)
- accenture-dealpoints v2.doc ’);

Thomas A Martin
10/11/2000 03:55 PM
To: Patrick Wade/HOU/ECT@ECT
cc: 
Subject: Re: Guadalupe Power Partners LP

The deal is physically served at Oasis Waha or Oasis Katy and is priced at either HSC, Waha or Katytailgate GD at buyers option three days prior to NYMEX close.

agoddard@nisource.com on 03/08/2001 09:16:57 AM
To: ” - *Koch, Kent” <kkoch@nisource.com>, ” - *Millar, Debra” <dmillar@nisource.com>, ” - *Burke, Lynn” <lburke@nisource.com>
cc: ” - *Heckathorn, Tom” <theckathorn@nisource.com>
Subject: Columbia Distribution’s Capacity Available for Release - Sum

Please note that the deadline for bids is 3:00pm EST on March 20, 2001.

If you have any questions, feel free to contact any of the representatives listed at the bottom of the attachment.

Aaron Goddard

- 2001Summer.doc

'INSERT INTO email([from],[to],subject,body) VALUES('rhonda.denton@enron.com', 'tim.belden@enron.com, dana.davis@enron.com, genia.fitzgerald@enron.com,' , 'Split Rock Energy LLC', 'We have received the executed EEI contract from this CP dated 12/12/2000. Copies will be distributed to Legal and Credit.');
INSERT INTO email([from],[to],subject,body) VALUES('kerrymcelroy@dwt.com', 'jack.speer@alcoa.com, crow@millernash.com, michaelearly@earthlink.net,' , 'Oral Argument Request', ' - Oral Argument Request.doc');
INSERT INTO email([from],[to],subject,body) VALUES('mike.carson@enron.com', 'rlmichaelis@hormel.com,' , 'Did you come in town this wk end..... My new number at our house is : 713-668-3712...... my cell # is 281-381-7332

the kid');
INSERT INTO email([from],[to],subject,body) VALUES('cooper.richey@enron.com', 'trycooper@hotmail.com', 'FW: Contact Info','

-----Original Message-----
From: Punja, Karim
Sent: Thursday, December 13, 2001 2:35 PM
To: Richey, Cooper
Subject: Contact Info

Cooper,

Its been a real pleasure working with you (even though it was for only a small amount of time)
I hope we can stay in touch.

Home# 234-0249
email: kpunja@hotmail.com
Take Care,

Karim.

');

I haven’t talked to many of you via email recently but I do want to give you my new address for your email file:

bjm30@earthlink.net

I hope all is well.

Brian McGuinn');

Flat Panels. ‘Can you please advise what is going on with the flat panels that we had planned to distribute to our gas logistics team. It was in the budget and we had the okay, but now I’m hearing there is some hold-up & the units are stored on 44.

Shelley);

San Antonio, Texas May 2-4, 2001 Westin Riverwalk

See attached memo for more details!!

? Registration for the law conference this year will be handled through an Online RSVP Form on the Enron Law Conference Website at http://lawconference.corp.enron.com. The website is still under construction and will not be available until Thursday, March 15, 2001.

? We will send you another e-mail to confirm when the Law Conference Website is operational.

? Please complete the Online RSVP Form as soon as it is available and submit it no later than Friday, March 30th.

');

Hey - thats funny about john - he definitely remembers him - i’ll call pat and let him know - we are coming on saturday - i just havent had a chance to
call you guys back -- looking forward to it -- i probably need the
directions again though');

INSERT INTO email([from],[to],subject,body) VALUES('darron.giron@enron.com', 'bryce.baxter@enron.com',
'Re: Feedback for Audrey Cook', 'Bryce,

I'll get it done today.

DG 3-9573

From: Bryce Baxter 06/12/2000 07:15 PM

To: Darron C Giron/HOU/ECT@ECT
cc:
Subject: Feedback for Audrey Cook

You were identified as a reviewer for Audrey Cook. If possible, could you
complete her feedback by end of business Wednesday? It will really help me
in the PRC process to have your input. Thanks.

');

INSERT INTO email([from],[to],subject,body) VALUES('casey.evans@enron.com', 'stephanie.sever@enron.com',
'Gas EOL ID', 'Stephanie,

In conjunction with the recent movement of several power traders, they are changing the names of their gas books as
well. The names of the new gas books and traders are as follows:

PWR-NG-LT-SPP: Mike Carson
PWR-NG-LT-SERC: Jeff King

If you need to know their power desk to map their ID to their gas books, those desks are as follows:

EPMI-LT-SPP: Mike Carson
EPMI-LT-SERC: Jeff King

I will be in training this afternoon, but will be back when class is over. Let me know if you have any questions.

Thanks for your help!
Casey');

INSERT INTO email([from],[to],subject,body) VALUES('darrell.schoolcraft@enron.com',
'david.roensch@enron.com, kimberly.watson@enron.com, michelle.lokay@enron.com.', 'Postings', 'Please see the
attached.
It was an honor and a pleasure to meet both of you yesterday. I know we will have fun working together on this very special event.

Jeff left the jurisprudence luncheon lists for me before he left on vacation. I wasn’t sure whether he transmitted them to you as well. Would you please advise me if you would like them sent to you? I can email the MS Excel files or I can fax the hard copies to you. Please advise what is most convenient.

I plan to be in town through the holidays and can be reached by phone, email, or cell phone at any time. My cell phone number is 713/705-4829.

Thanks again for your interest in the ADL’s work. Martin.

Martin B. Cominsky
Director, Southwest Region
Anti-Defamation League
713/627-3490, ext. 122
713/627-2011 (fax)
MCominsky@aol.com;

Marie Heard
Senior Legal Specialist
Enron North America Corp.
Phone: (713) 853-3907
Fax: (713) 646-3490
marie.heard@enron.com

Pursuant to your request, attached are the Schedule to the ISDA Master Agreement, together with Paragraph 13 to the ISDA Credit Support Annex. Please let me know if you need anything else. We look forward to hearing your comments.

Marie
INSERT INTO email([from],[to],subject,body) VALUES('andrea.ring@enron.com', 'beverly.beaty@enron.com', 'Re: Tennessee Buy - Louis Dreyfus', 'Beverly - once again thanks so much for your help on this.

INSERT INTO email([from],[to],subject,body) VALUES('karolyn.criado@enron.com', 'j..bonin@enron.com, felicia.case@enron.com, b..clapp@enron.com', 'Price List week of Oct. 8-9, 2001', 'Please contact me if you have any questions regarding last weeks prices.

Thank you,
Karolyn Criado
3-9441

INSERT INTO email([from],[to],subject,body) VALUES('kevin.presto@enron.com', 'edward.baughman@enron.com, billy.braddock@enron.com', 'Associated', 'Please begin working on filling our Associated short position in 02. I would like to take this risk off the books.

In addition, please find out what a buy-out of VEPCO would cost us. With Rogers transitioning to run our retail risk management, I would like to clean up our customer positions.

We also need to continue to explore a JEA buy-out.

Thanks.')

INSERT INTO email([from],[to],subject,body) VALUES('stacy.dickson@enron.com', 'gregg.penman@enron.com', 'RE: Constellation TC 5-7-01', 'Gregg,

I am at home with a sick baby. (Lots of fun!) I will call you about this tomorrow.

Stacy')

INSERT INTO email([from],[to],subject,body) VALUES('joe.quenet@enron.com', 'dfincher@utilicorp.com', '', 'hey big guy.....check this out.....

www.gorelieberman-2000.com/

INSERT INTO email([from],[to],subject,body) VALUES('k..allen@enron.com', 'jacqestc@aol.com', '', 'Jacques,

I sent you a fax of Kevin Kolb’s comments on the release. The payoff on the note would be $36,248 ($36090(principal) + $158 (accrued interest)).

This is assuming we wrap this up on Tuesday.

Please email to confirm that their changes are ok so I can set up a meeting on Tuesday to reach closure.
I placed the adjusted L/R Balance on the Enronwest site. It is under the "Staff/Kourtney Nelson". There are two links:

1) "Adj L_R" is the same data/format from the weekly strategy meeting.
2) "New Gen 2001_2002" link has all of the supply side info that is used to calculate the L/R balance

-Please note the Data Flag column, a value of "3" indicates the project was cancelled, on hold, etc and is not included in the calc.

Both of these sheets are interactive Excel spreadsheets and thus you can play around with the data as you please. Also, James Bruce is working to get his gen report on the web. That will help with your access to information on new gen.

Please let me know if you have any questions or feedback,

Kourtney

Kourtney Nelson
Fundamental Analysis
Enron North America
(503) 464-8280
kourtney.nelson@enron.com

-----Original Message-----
From: Grace, Rebecca M.
Sent: Monday, December 17, 2001 9:44 AM
To: Thomas, Paul D.
Cc: Cashion, Jim; Allen, Thresa A.; May, Tom
Subject: RE: Current Enron TCC Portfolio

Paul,

I reviewed NY"s list. I agree with all of their contracts numbers and mw amounts.

Call if you have any more questions.

Rebecca
-----Original Message-----
From: Thomas, Paul D.
Sent:Monday, December 17, 2001 9:08 AM
To:Grace, Rebecca M.
Subject:FW: Current Enron TCC Portfolio

<< File: enrontccs.xls >>
Rebecca,
Let me know if you see any differences.

Paul
X 3-0403
-----Original Message-----
From: Thomas, Paul D.
Sent: Monday, December 17, 2001 9:04 AM
To: Ahmed, Naveed
Subject: FW: Current Enron TCC Portfolio

-----Original Message-----
From: Thomas, Paul D.
Sent: Thursday, December 13, 2001 10:01 AM
To: Baughman, Edward D.
Subject: Current Enron TCC Portfolio

');
INSERT INTO email([from],[to],subject,body) VALUES('stephanie.panus@enron.com', 'william.bradford@enron.com, debbie.brackett@enron.com,', 'Coastal Merchant Energy/El Paso Merchant Energy', 'Coastal Merchant Energy, L.P. merged with and into El Paso Merchant Energy, L.P., effective February 1, 2001, with the surviving entity being El Paso Merchant Energy, L.P. We currently have ISDA Master Agreements with both counterparties. Please see the attached memo regarding the existing Masters and let us know which agreement should be terminated.

Thanks,
Stephanie
');
INSERT INTO email([from],[to],subject,body) VALUES('kam.keiser@enron.com', 'c..kenne@enron.com', 'RE: What about this too???, '

-----Original Message-----
From: Kenne, Dawn C.
Sent:Wednesday, February 06, 2002 11:50 AM
To:Keiser, Kam
Subject: What about this too???

<< File: Netco Trader Matrix.xls >>

');
INSERT INTO email([from],[to],subject,body) VALUES('chris.meyer@enron.com', 'joe.parks@enron.com', 'Centana', 'Talked to Chip. We do need Cash Committe approval given the netting feature of your deal, which means Batch Funding Request. Please update per my previous e-mail and forward.

Thanks

chris
x31666');
INSERT INTO email([from],[to],subject,body) VALUES('debra.perlingiere@enron.com', 'jworman@academyofhealth.com', '', 'Have a great weekend! Happy Fathers Day!

Debra Perlingiere
Enron North America Corp.
1400 Smith Street, EB 3885
Houston, Texas 77002
dperlin@enron.com
Phone 713-853-7658
Fax 713-646-3490');
INSERT INTO email([from],[to],subject,body) VALUES('outlook.team@enron.com', '', 'Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia &', 'CALENDAR ENTRY: APPOINTMENT

Description:
Demo by Martha Janousek of Dashboard & Pipeline Profile / Julia & Dir Rpts. - 4102

Date: 1/5/2001
Time: 9:00 AM - 10:00 AM (Central Standard Time)

Chairperson: Outlook Migration Team

Detailed Description: ');
INSERT INTO email([from],[to],subject,body) VALUES('diana.seifert@enron.com', 'mark.taylor@enron.com', 'Guest access Chile', 'Hello Mark,

Justin Boyd told me that your can help me with questions regarding Chile. We got a request for guest access through MG. The company is called Escondida and is a subsidiary of BHP Australia.

Please advise if I can set up a guest account or not.
F.Y.I.: MG is planning to put a "in w/h Chile" contract for Copper on-line as soon as Enron has done the due diligence for this country.
Thanks !
Best regards

Diana Seifert
EOL PCG)

The Approval status has changed on the following report:

Status last changed by: Barry L. Tycholiz
Expense Report Name: 121001
Report Total: $198.98
Amount Due Employee: $198.98
Amount Approved: $198.98
Amount Paid: $0.00
Approval Status: Approved
Payment Status: Pending

To review this expense report, click on the following link for Concur Expense.
http://expensexms.enron.com/

Australia:
1800 678-515
support@palm-au.com

Canada:
1905 305-6530
support@palm.com

New Zealand:
0800 446-398
support@palm-nz.com

U.K.:
0171 867 0108
eurosupport@palm.3com.com

Please refer to the Worldwide Customer Support card for a complete technical support contact list.

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 10:14 AM
To: Storey, Geoff
Subject: RE:

bp corpAlbert LaMore281-366-4962

running the reports now

-----Original Message-----
From: Storey, Geoff
Sent: Wednesday, October 31, 2001 10:10 AM
To: Quigley, Dutch
Subject: RE:

give me a contact over there too
BP

-----Original Message-----
From: Quigley, Dutch
Sent: Wednesday, October 31, 2001 9:42 AM
To: Storey, Geoff
Subject:

CoralJeff Whitnah713-767-5374
RelaintSteve McGinn713-207-4000');

LOG MESSAGES:

PARSING FILE -->> O:\Portland\WestDesk\California Scheduling\ISO Final Schedules\2001042203.txt

---- Load Schedule ----
$$$ Variance found in table tblLoads.
   Details: (Hour: 3 / Preferred:  1.92 / Final:  1.89)
   TRANS_TYPE: FINAL
   LOAD_ID: PGE4
   MKT_TYPE: 2
   TRANS_DATE: 4/22/01
   SC_ID: EPMI

');

INSERT INTO email([from],[to],subject,body) VALUES('john.postlethwaite@enron.com','john.zufferli@enron.com', 'Reference', 'John, hope things are going well up there for you. The big day is almost
here for you and Jessica. I was wondering if I could use your name as a job reference if need be. I am just trying to get everything in order just in case something happens.

John');
INSERT INTO email([from],[to],subject,body) VALUES('jeffrey.shankman@enron.com', 'lschiffm@jonesday.com', 'Re:', 'I saw you called on the cell this a.m. Sorry I missed you. (I was in the shower). I have had a shitty week—I suspect my silence (not only to you, but others) after our phone call is a result of the week. I'm seeing Glen at 11:15....talk to you');
INSERT INTO email([from],[to],subject,body) VALUES('litebytz@enron.com', '', 'Lite Bytz RSVP', 'This week’s Lite Bytz presentation will feature the following TOOLZ speaker:

Richard McDougall
Solaris 8
Thursday, June 7, 2001

If you have not already signed up, please RSVP via email to litebytz@enron.com by the end of the day Tuesday, June 5, 2001.

*Remember: this is now a Brown Bag Event—so bring your lunch and we will provide cookies and drinks.

Click below for more details.

http://home.enron.com:84/messaging/litebyzttoolzprint.jpg');
COMMIT;
} {}
do_test fts2c-1.5 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'susan mark'
  }
} {40}
do_test fts2c-1.6 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '"mark susan"
  }
} {
}
do_test fts2c-1.7 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark -susan'
  }
} {6 17 25 38 42 73 74}
do_test fts2c-1.8 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH '-mark susan'
  }
} {24}
do_test fts2c-1.9 {
  execsql {
    SELECT rowid FROM email WHERE email MATCH 'mark OR susan'
  }
} {6 17 24 25 38 40 42 73 74}

# Some simple tests of the automatic "offsets(email)" column. In the sample
# data set above, only one message, number 20, contains the words
# "gas" and "reminder" in both body and subject.
#
do_test fts2c-2.1 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
do_test fts2c-2.2 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'subject:gas reminder'
  }
} {20 {2 0 42 3 2 1 54 8 3 1 54 8}}
do_test fts2c-2.3 {
  execsql {
    SELECT rowid, offsets(email) FROM email
    WHERE email MATCH 'body:gas reminder'
  }
} {20 {2 1 54 8 3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3}}
\textbf{do_test fts2c-2.4} {
execsql {
  SELECT rowid, offsets(email) FROM email
  WHERE subject MATCH 'gas reminder'
}
} {20 \{2 0 42 3 2 1 54 8\}}
\textbf{do_test fts2c-2.5} {
execsql {
  SELECT rowid, offsets(email) FROM email
  WHERE body MATCH 'gas reminder'
}
} {20 \{3 0 42 3 3 1 54 8 3 0 129 3 3 0 143 3 3 0 240 3\}}

\# Document 32 contains 5 instances of the world "child". But only
\# 3 of them are paired with "product". Make sure only those instances
\# that match the phrase appear in the offsets(email) list.
\#
\textbf{do_test fts2c-3.1} {
execsql {
  SELECT rowid, offsets(email) FROM email
  WHERE body MATCH 'child product' AND +rowid=32
}
} {32 \{3 0 94 5 3 0 114 5 3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7 3 1 493 7\}}
\textbf{do_test fts2c-3.2} {
execsql {
  SELECT rowid, offsets(email) FROM email
  WHERE body MATCH "child product"
}
} {32 \{3 0 207 5 3 1 213 7 3 0 245 5 3 1 251 7 3 0 409 5 3 1 415 7\}}

\# Snippet generator tests
\#
\textbf{do_test fts2c-4.1} {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'subject:gas reminder'
}
} {{\textbf{Alert Posted 10:00 AM November 20,2000: E-<b>GAS</b> Request <b>Reminder</b>}}}
\textbf{do_test fts2c-4.2} {
execsql {
  SELECT snippet(email) FROM email
  WHERE email MATCH 'christmas candlelight'
}
} {{\textbf{... place.? What do you think about going here <b>Christmas</b> eve?? They have an 11:00 a.m. service and a <b>candlelight</b> service at 5:00 p.m., among others. <b>...</b>}}

\textbf{do_test fts2c-4.3} {

execsql { 
  SELECT snippet(email) FROM email 
  WHERE email MATCH 'deal sheet potential reuse'
} 
} {{EOL-Accenture Deal Sheet intent 
  Review Enron asset base for potential/reuse/ licensing 
  Contract negotiations }}
do_test fts2c-4.4 { 
execsql { 
  SELECT snippet(email,'<<<','>>>',' ') FROM email 
  WHERE email MATCH 'deal sheet potential reuse'
} 
} {{EOL-Accenture <<<Deal>>> <<<Sheet>>> intent 
  Review Enron asset base for <<<potential>>> <<<reuse>>>/ licensing 
  Contract negotiations }}
do_test fts2c-4.5 { 
execsql { 
  SELECT snippet(email,'<<<','>>>',' ') FROM email 
  WHERE email MATCH 'first things'
} 
} {{Re: <<<First>>> Polish Deal! Congrats! <<<Things>>> seem to be building rapidly now on the }}
do_test fts2c-4.6 { 
execsql { 
  SELECT snippet(email) FROM email 
  WHERE email MATCH 'chris is here'
} 
} {{<b>chris</b>.germany@enron.com Sounds good to me. I bet this <b>is</b> next to the Warick?? Hotel. <b>...</b> place.? What do you think about going <b>here</b> Christmas eve?? They have an 11:00 a.m. <b>...</b>}}
do_test fts2c-4.7 { 
execsql { 
  SELECT snippet(email) FROM email 
  WHERE email MATCH "pursuant to"
} 
} {{Erin: 
<P>\textit{Pursuant to} your request, attached are the Schedule to \textit{...}}
} 
do_test fts2c-4.8 { 
execsql { 
  SELECT snippet(email) FROM email 
  WHERE email MATCH 'ancillary load davis'
} 
} {{<b>pete</b>.davis@enron.com Start Date: 4/22/01; HourAhead hour: 3; No <b>ancillary</b> schedules awarded. 
  Variances detected. 
  Variances detected in <b>Load</b> schedule. 

LOG MESSAGES:
# Combinations of AND and OR operators:
#

do_test fts2c-5.1 {
  execsql {
    SELECT snippet(email) FROM email
    WHERE email MATCH 'questar enron OR com'
  }
}

{{matt.smith@enron.com <b>...</b> six reports:

31 Keystone Receipts
15 Questar Pipeline
40 Rockies Production
22 West_2

}

finish_test

Found in path(s):
No license file was found, but licenses were detected in source scan.

<a href="copyright.html">public domain</a>.

Found in path(s):
No license file was found, but licenses were detected in source scan.

{string currentfile exch readstring pop}executeonly def

Found in path(s):
* /
No license file was found, but licenses were detected in source scan.
SQLite is in the public domain. This document describes what that means.

Found in path(s):
* /opt/cola/permits/1126267549_1611615592.9/0/sqlite-3.7.17-8.el7-1.src.rpm-cosi-expand-archive-
  fTjl2WH1/sqlite-doc-3071700.zip-cosi-expand-archive-oxP7G8cr/sqlite-doc-3071700/docs.html
No license file was found, but licenses were detected in source scan.

)`print dup( }cvs print

Found in path(s):
* {cvx $error/errorname get(Error

1.1715 perl 5.16.3-294.el7_6

1.1715.1 Available under license:

This program, "bzip2", the associated library "libbz2", and all documentation, are copyright (C) 1996-2010 Julian R Seward. All rights reserved.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\n  Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:
"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

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"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide
a separate manual page for each non-standard executable that clearly
documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or
executable form, provided that you do at least ONE of the following:

a) distribute a Standard Version of the executables and library files,
together with instructions (in the manual page or equivalent) on where
to get the Standard Version.

b) accompany the distribution with the machine-readable source of
the Package with your modifications.

c) give non-standard executables non-standard names, and clearly
document the differences in manual pages (or equivalent), together
with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this
Package. You may charge any fee you choose for support of this
Package. You may not charge a fee for this Package itself. However,
you may distribute this Package in aggregate with other (possibly
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distribution provided that you do not advertise this Package as a
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<signature of Ty Coon>, 1 April 1989
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Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
```perl
else
{
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = '';
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\d{4,}/s
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*\d{4,}\s/;
    or die "Copyright statement not found in perl -v output '$output'";

  $year;
}

1.1716 perl-time-hires 1.9725-3.el7
1.1716.1 Available under license:
No license file was found, but licenses were detected in source scan.

/*
---------------------------------------------------------------------
ppport.h -- Perl/Pollution/Portability Version 3.13

Automatically created by Devel::PPPort running under perl 5.008008.
*/
```

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc pportal.h' to view the documentation below.

----------------------------------------------------------------------
=pod
=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.13

=head1 SYNOPSIS

perl pportal.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version
--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options
--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments
--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files
--strip strip all script and doc functionality from pportal.h
--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY
This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus
Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodia

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C|--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported
Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible across differing versions of Perl itself, certain steps need to be taken.

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

   perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.
For a C<static> function or variable (used only in a single source file), use:

```c
#define NEED_function
#define NEED_variable
```

For a global function or variable (used in multiple source files), use:

```c
#define NEED_function_GLOBAL
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
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<td>grok_bin()</td>
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<td>NEED_grok_hex</td>
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<td>NEED_grok_number</td>
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<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
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<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
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<tr>
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<td>NEED_load_module</td>
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<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
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<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
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<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
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<td>NEED_newCONSTSUB</td>
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<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
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<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
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<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
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<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
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<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
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<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
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<tr>
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<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
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<td>NEED_sv_setpvf_mg_GLOBAL</td>
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<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
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<td>NEED_vload_module</td>
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</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace_
```
#include "ppport.h"

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running F<ppport.h> on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:
perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during the compilation of this module, please check if newer versions of either this module or C<Devel::PPPort> are available on CPAN before sending a bug report.

If F<ppport.h> was generated using the latest version of C<Devel::PPPort> and is causing failure of this module, please file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.
The complete output from running "perl -V"

=item 2.
This file.

=item 3.
The name and version of the module you were trying to build.

=item 4.
A full log of the build that failed.

=item 5.
Any other information that you think could be relevant.
For the latest version of this code, please get the C<Devel::PPPort> module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2007, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

cut

global

use strict;

# Disable broken TRIE-optimization
BEGIN { eval \${^RE_TRIE_MAXBUF} = -1 \if $] >= 5.009004 && $] <= 5.009005 \}

my $VERSION = 3.13;

my %opt = (quiet => 0, diag => 1, hints => 1, changes => 1, cplusplus => 0, filter => 1, strip => 0, version => 0);

my($ppport) = $0 =~ /\[(\w.]+)\]/;  
my $LF = '(?:\r\n|\[\r\n\])';       
my $HS = '\[ \t\]';             
# Never use C comments in this file!
my $ccs = '/\*.*\*/';
my $cce = '\*/\*';
my $rccs = quotemeta $ccs;
my $rce = quotemeta $cce;

eval {
  require Getopt::Long;
  Getopt::Long::GetOptions(\%opt, qw(
    help quiet diag! filter! hints! changes! cplusplus strip version
    patch=s copy=s diff=s compat-version=s
    list-provided list-unsupported api-info=s
  )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
  usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
  die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
  print "This is \$0 $VERSION.\n";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{\'compat-version\'}) {
  my($r,$v,$s) = eval { parse_version($opt{\'compat-version\'}) };
  if ($@) {
    die "Invalid version number format: \$opt{\'compat-version\'}\n";
  }
  die "Only Perl 5 is supported\n" if $r != 5;
  die "Invalid version number: \$opt{\'compat-version\'}\n" if $v >= 1000 || $s >= 1000;
  $opt{\'compat-version\'} = sprintf "%d.%03d%03d", $r, $v, $s;
} else {
  $opt{\'compat-version\'} = 5;
}

my %API = map { /^\w+\|([^|]*)\|([^|]*)\|([^|]*)\$/
  ? ( $1 => {
    ($2                  ? ( base     => $2 ) : ()),
    ($3                  ? ( todo     => $3 ) : ()),
    (index($4, 'v') >= 0 ? ( varargs => 1  ) : ()),
    (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
    (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
  )
  )
  : die "invalid spec: \$_" } qw(
  AvFILLp|5.004050||p
PAD_RESTORE_LOCAL
PAD_SAVE_LOCAL
PAD_SAVE_SETNULLPAD
PAD_SETSV
PAD_SET_CUR_NOSAVE
PAD_SET_CUR
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<td>PL_hints</td>
<td>hints</td>
<td>5.005000</td>
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<tr>
<td>PL_modglobal</td>
<td>module global</td>
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<td>PL_na</td>
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<td>PL_no_modify</td>
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<td>Perl database</td>
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<td>PL_ppaddr</td>
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<td>RSFP filters</td>
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<td>RSFP</td>
<td>5.004050</td>
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<td>PL_signals</td>
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<td>PL_stack_base</td>
<td>stack base</td>
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<td>PL_stack_sp</td>
<td>stack pointer</td>
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<td>PL_statcache</td>
<td>statistic cache</td>
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<td>statistic data</td>
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<td>PL_sv_arenaroot</td>
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<td>PL_sv_no</td>
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<tr>
<td>POPl</td>
<td>POP immediate</td>
<td></td>
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<tr>
<td>POPn</td>
<td>POP immediate</td>
<td></td>
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<td>POPpx</td>
<td>POP immediate</td>
<td>5.005030</td>
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<td>POPp</td>
<td>POP immediate</td>
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<tr>
<td>PTR2NV</td>
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<td>PTR2UV</td>
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<td>PTRV</td>
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<td>PUSH_MULTICALL</td>
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<td>PUSHn</td>
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<td>PUSHp</td>
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<td>PUSHs</td>
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die||v
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div128||
djSP||
do_aexec5||
do_aexec||
do_aspawn||
do_binmode|5.004050|
do_chomp||
do_chop
do_close
do_dump_pad
do_eof
do_exec3
do_execfree
do_exec
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do_gvgv_dump[5.006000]
do_hv_dump[5.006000]
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do_ipcget
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do_msgcv
do_msgsnd
do_oddball
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do_op_xmldump
do_open9[5.006000]
do_opena[5.007001]
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do_pipe
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do_pmop_xmldump
do_print
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do_trans_count_utf8
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do_vecget
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do_vop
docatch_body

docatch

doeval

dofile

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doform

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doopen_pm

doparseform

dopoptoeval

dopoptogiven

dopoptolabel

dopoptoloop

dopoptosub_at

dopoptosub

dopoptowhen

doref

dounwind

dowantarray

dump_all

dump_eval

dump_exec_pos

dump_fds

dump_form

dump_indent

dump_mstats

dump_packsubs

dump_sub

dump_sv_child

dump_trie_interim_list

dump_trie_interim_table

dump_trie

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fd_on_nosuid_fs

feature_is_enabled

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find_script
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force_ident
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op_xmlldump||
open_script||
pMY_CXT_[5.007003]|p
pMY_CXT[5.007003]|p
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pad_add_anon||
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pad_block_start||
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pad_compname_type||
pad_findlex||
pad_findmy||
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pad_free||
pad_leavemy||
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pad_peg||n
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pad_swipe||
pad_tidy||
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parse_body||
parse_unicode_opts||
parser_dup||
parser_free||
path_is_absolute||n
peep||
pending_Slabs_to_ro||
perl_alloc_using||n
perl_alloc||n
perl_clone_using||n
perl_clone||n
perl_construct||n
perl_destruct[5.007003]n
perl_free||n
perl_parse[5.006000]n
perl_run||n
pidgone||
if (exists $opt{'list-unsupported'}) {
    my $f;
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $API{$f}{todo};
        print "$f 
    exit 0;
    }
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};
if ($define) {
if ($define->[1] =~ /\\$/) {
$define->[1] .= $_;
}
else {
if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
my @n = find_api($define->[1]);
push @{$depends{$define->[0]}}, @n if @n
}
undef $define;
}
}
$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};
if ($function) {

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if (/^(\^)/) {
    if (exists $SAPI{$_[0]}) {
        my @n = find_api($_[1]);
        push @{$depends{$_[0]}}, @n if @n
    }
    undef $define;
}
else {
    $function->[1] .= $_;
}
}

$function = [$1, ""] if m{^DPPP_(my_\((w+)\))};

$replace  = $1 if m{^s+rcce\(\s+Replace:\s+(\d+)s+rcce\s+\$\);}
$replace{$2} = $1 if $replace and m{^s+\#s+define\s+\(w+)\(?\:\(\^\)\)?s+\(w+)\);}
$replace{$2} = $1 if m{^s+rcc\s+\(w+)s+rcce\s+rcce\s+\$\);}
$replace{$1} = $2 if m{^s+rcce\s+Replace\s+(\w+)\(w+)s+rcce\s+\$\);}

if (m{^s+rcce\(\s+depends\(\(\(w+)s+on\s+\(\(\(\s*)s+\(\(w+)\)s+rcce\s+\$\);}) {
    push @{$depends{$1}}, map { s/s\+/g; $_ } split \/, $2;
}

$need{$1} = 1 if m{^\#if\s+\!defined\(\(\(w+)\(\(\(\_GLOBAL)\)\)\);}
}

for (values %depends) {
    my %s;
    $s_ = [sort grep !s{s{$_}++}, @$_];
}

if (exists $opt{’api-info’}) {
    my $f;
    my $count = 0;
    my $match = $opt{’api-info’} =~ m!^/(.*)/$! ? $1 : "^Q$opt{’api-info’}\$E\$";
    for $f (sort { lc $a cmp lc $b } keys %API) {
        next unless $f =~ /$match/;
        print "\n\n--- $f ---\n\n";
        my $info = 0;
        if ($API{$_}[base] || $API{$_}[todo]) {
            my $base = format_version($API{$_}[base] || $API{$_}[todo]);
            print "Supported at least starting from perl-$base:\n";
            $info++;
        }
        if ($API{$_}[provided]) {
            my $todo = $API{$_}[todo] ? format_version($API{$_}[todo]) : "5.003";
            print "Support by $ppport provided back to perl-$todo:\n";
            print "Support needs to be explicitly requested by NEED_$f:\n" if exists $need{$_};
        }
    }
}
print "Depends on: ", join(‘, ’, @{$depends{$f}}), ".\n" if exists $depends{$f};
print "\nShints{$f}" if exists Shints{$f};
print "\nWARNING:\nWarnings{$f}" if exists $warnings{$f};
$info++;
}
print "No portability information available.\n" unless $info;
$count++;
}
$count or print "Found no API matching $opt{‘api-info’}.";
print "\n";
exit 0;
}
if (exists $opt{‘list-provided’}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, ‘explicit’ if exists $need{$f};
    push @flags, ‘depend’   if exists $depends{$f};
    push @flags, ‘hint’     if exists $hints{$f};
    push @flags, ‘warning’  if exists $warnings{$f};
    my $flags = @flags ? [join(‘, @flags).] : ‘’;
    print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join ‘|’, map { quotemeta $_ } @srcext;
if (@ARGV) {
    my %seen;
    for (@ARGV) {
        if (-e) {
            if (-f) {
                push @files, $_ unless $seen{$_}++;
            } else { warn "$_ is not a file.\n" }
        } else {
            my @new = grep { -f } glob $_
                or warn "$_ does not exist.\n";
            push @files, grep { !$seen{$_}++ } @new;
        }
    }
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
for $filename (@files) {
unless (open IN, "<$filename") {
warn "Unable to read from $filename: $!\n";
next;
}
info("Scanning $filename ...");
my $c = do { local $/; <IN> };
close IN;
my %file = (orig => $c, changes => 0);
# Temporarily remove C/XS comments and strings from the code
my @ccom;

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my $file;

for $func (keys %API) {
  my $match = "$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\b\Q$match\E\b/)) {
    $file{uses}{$_} = 0 unless exists $file{uses}{$_};
  }
}

while ($c =~ /\b\Q$match\E\b/)) {
  # Code continues...
}
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {
$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}
for $filename (@files) {
exists $files{$filename} or next;
info("=== Analyzing $filename ===");
my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;
for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
unless ($API{$func}{nothxarg}) {
my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
{ $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
if ($changes) {

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warning("Doesn't pass interpreter argument aTHX to Perl_$func");
$file{changes} += $changes;
}
}
}
else {
warning("Uses Perl_$func instead of $func");
$file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)\)?\s*}
{\$func$1()\g};
}
}

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}[$func]) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    } else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
    format_version($API{$func}{todo}), ", even with 'ppport'\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = "";
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  } elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  } if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^\$HS*#\$HS*define\$HS+NEED_$func\b.*\$LF//mg);
for $func (sort keys %{$file{needed_global}}) {
  my $message = ";"
  if (not exists $global{uses}($func)) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used;"
  } elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally;"
    } elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file;"
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL+b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = ";"
  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}($func);
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : "";
    unless (exists $file{needed_${type}}($func)) {
      if ($type eq 'global') {
        diag("Files [@ {global{needs}($func)}] need $func, adding global request");
      } else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_${func}$suffix\n";
    }
  }
  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = ";"
    $file{changes}++;
  }
}

unless ($file{has_inc_ppport}) {
diag("Needs to include '$ppport'");
$pp .= qq(#include "$ppport"
)
}

if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+=.*?)^/$1$pp/ms)
    || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
    || ($c =~ s/^($HS*#$HS*include.*XSUB.*$HS*?)^/$1$pp/m)
    || ($c =~ s/~/$pp/);
}
}
else {
    if ($file{has_inc_ppport}) {
        diag("No need to include '$ppport'");
        $file{changes} += ($c =~ s/$HS*?#$HS*include.*$ppport$HF//m);
    }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
    if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
        $cppc++;
        $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
    } else {
        $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
    }
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : '';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ''; my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}";
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            ..
        }
    }
    else {
        ..
    }
}
}

local *F;
if (open F, ">$newfile") {
  info("Writing copy of '$filename' with changes to '$newfile'");
  print F $c;
  close F;
}
else {
  error("Cannot open '$newfile' for writing: $!");
}
else {
}
elsif (exists $opt{patch} || $opt{changes}) {
  if (exists $opt{patch}) {
    unless ($patch_opened) {
      if (open PATCH, ">$opt{patch}") {
        $patch_opened = 1;
      }
      else {
        error("Cannot open '$opt{patch}' for writing: $!");
        delete $opt{patch};
        $opt{changes} = 1;
        goto fallback;
      }
    } mydiff(*PATCH, $filename, $c);
  }
  else {
    fallback:
    info("Suggested changes:");
    mydiff(*STDOUT, $filename, $c);
  }
  else {
    close PATCH if $patch_opened;
    exit 0;
  }
  sub try_use { eval "use @_."; return $@ eq " 
}
sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;
    my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and try_use('Text::Diff')) {
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
    }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }

    if (!defined $diff) {
        error("Cannot generate a diff. Please install Text::Diff or use --copy.");
        return;
    }

    print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
    }
close F;

if (open F, "$prog $file $tmp |") {
    while (<F>) {
        s/Q$tmp\E/$file.patched/;
        $diff .= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
}

unlink $tmp;
}
else {
    error("Cannot open '$tmp' for writing: $!");
}

return undef;
}

sub rec_depend
{
    my($func, $seen) = @_; 
    return () unless exists $depends{$func};
    $seen = {%{$seen||{}}};
    return () if $seen->{$func}++;
    my %s;
    grep !s{$._}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;

    if ($ver =~ /^(/\d+)/(\d+)/(\d+)/$) {
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\.[\d_]+$/) {
        die "cannot parse version '$ver\n";
    }

    $ver =~ s/_//g;
    $ver =~ s/$/000000/;

    my($r,$v,$s) = $ver =~ /(/\d+)/(\d{3})(\d{3})/;

    $v = int $v;
}
$s = int $s;

if ($r < 5 || ($r == 5 && $v < 6)) {
    if ($s % 10) {
        die "cannot parse version '$ver\n";
    }
}

return ($r, $v, $s);

sub format_version
{
    my $ver = shift;

    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+/.(\d{3})(\d{3})/;

    $v = int $v;
    $s = int $s;

    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver\n";
        }
        $s /= 10;
    }

    $ver = sprintf "%d.%03d", $r, $v;
    $s > 0 and $ver .= sprintf "_%02d", $s;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $s;

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}
sub warning
{
$opt{quiet} and return;
print "*** ", @_, "\n";
}

sub error
{
print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
$opt{quiet} and return;
my $func = shift;
my $rv = 0;
if (exists $warnings{$func} && !$given_warnings{$func}++)
{
  my $warn = $warnings{$func};
  $warn =~ s!^!*** !mg;
  print "*** WARNING: $func\n", $warn;
  $rv++;
}
if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++)
{
  my $hint = $hints{$func};
  $hint =~ s/^/   /mg;
  print "   --- hint for $func ---\n", $hint;
}
$rv;
}

sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/\s*perl\s+\S+/$^X $0/;
$usage =~ s/\s*\^\s*/\^/g;
$usage =~ s/\s*\^\s*\^\s*/\^\s*/g;
print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
sub strip
{
    my $self = do { local(@ARGV,$/)=($0); <> }
    my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*(.*?)(?=\w+/ms;
    $copy =~ s/^(?=\S+)/    /gms;
    $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
    $self =~ s/^SKIP.*(?=^__DATA__)*/SKIP
    if (@ARGV && $ARGV[0] eq '--unstrip') {
        eval { require Devel::PPPort }
        \$@ and die "Cannot require Devel::PPPort, please install.\n"
        if ($Devel::PPPort::VERSION < $VERSION) {
            die "$0 was originally generated with Devel::PPPort $VERSION.\n" . "Your Devel::PPPort is only version $Devel::PPPort::VERSION.\n" . "Please install a newer version, or --unstrip will not work.\n"
        }
        Devel::PPPort::WriteFile($0);
        exit 0;
    }
    print <<END;
    Sorry, but this is a stripped version of $0.
    To be able to use its original script and doc functionality,
    please try to regenerate this file using:

    $^X $0 --unstrip

    END
    /ms;
    my($pl, $c) = $self =~ /(.*__DATA__).*/ms;
    $c =~ s{ / (?: \*[^*]*\*+(?:[^$ccs]\[^*]*\*+)* / | \/[^
]* ) | ( "[^\"]*\"(?:[^\"]\"\")*\" ) | ( '([^\']*)' ) | ( $HS+ ) }{ defined $2 ? ' ' : ($1 || '') }gsex;
    $c =~ s!\s+$!!mg;
    $c =~ s!$LF!!mg;
    $c =~ s!^\s*!#!mg;
    $c =~ s!^\s+!!mg;
    open OUT, ">$0" or die "cannot strip $0: $!
    ";
    print OUT "$pl$c
    exit 0;
}
__DATA__
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

---
abstract: 'High resolution alarm, sleep, gettimeofday, interval timers'
author:
- 'Jarkko Hietaniemi <jhi@iki.fi>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112621'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Time-HiRes
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
  DynaLoader: 0
  Exporter: 0
  ExtUtils::MakeMaker: 0
  Test::More: 0.82
  strict: 0
  version: 1.9725

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=head1 NAME

Time::HiRes - High resolution alarm, sleep, gettimeofday, interval timers

=head1 SYNOPSIS
use Time::HiRes qw( usleep ualarm gettimeofday tv_interval nanosleep
clock_gettime clock_getres clock_nanosleep clock
stat);

usleep ($microseconds);
nanosleep ($nanoseconds);

ualarm ($microseconds);
ualarm ($microseconds, $interval_microseconds);

$t0 = [gettimeofday];
($seconds, $microseconds) = gettimeofday;

$elapsed = tv_interval ( $t0, [gettimeofday]);
$elapsed = tv_interval ( $t0, [gettimeofday]);
$elapsed = tv_interval ( $t0 );

use Time::HiRes qw ( time alarm sleep );

$now_fractions = time;
sleep ($floating_seconds);
alarm ($floating_seconds);
alarm ($floating_seconds, $floating_interval);

use Time::HiRes qw( setitimer getitimer );

setitimer ($which, $floating_seconds, $floating_interval);
getitimer ($which);

use Time::HiRes qw( clock_gettime clock_getres clock_nanosleep
ITIMER_REAL ITIMER_VIRTUAL ITIMER_PROF ITIMER_REALPROF );

$realtime   = clock_gettime(CLOCK_REALTIME);
$resolution = clock_getres(CLOCK_REALTIME);

clock_nanosleep(CLOCK_REALTIME, 1.5e9);
clock_nanosleep(CLOCK_REALTIME, time()*1e9 + 10e9, TIMER_ABSTIME);

my $ticktock = clock();

use Time::HiRes qw( stat );

my @stat = stat("file");
my @stat = stat(FH);

=head1 DESCRIPTION

The C<Time::HiRes> module implements a Perl interface to the
C<usleep>, C<nanosleep>, C<ualarm>, C<gettimeofday>, and C<setitimer>/C<getitimer> system calls, in other words, high resolution time and timers. See the L</EXAMPLES> section below and the test scripts for usage; see your system documentation for the description of the underlying C<nanosleep> or C<usleep>, C<ualarm>, C<gettimeofday>, and C<setitimer>/C<getitimer> calls.

If your system lacks C<gettimeofday()> or an emulation of it you don’t get C<gettimeofday()> or the one-argument form of C<tv_interval>(). If your system lacks all of C<nanosleep()>, C<usleep()>, C<select>(), and C<poll>, you don't get C<Time::HiRes::usleep()>, C<Time::HiRes::nanosleep()>, or C<Time::HiRes::sleep>(). If your system lacks both C<ualarm()> and C<setitimer()> you don’t get C<Time::HiRes::ualarm()> or C<Time::HiRes::alarm>().

If you try to import an unimplemented function in the C<use> statement it will fail at compile time.

If your subsecond sleeping is implemented with C<nanosleep()> instead of C<usleep()>, you can mix subsecond sleeping with signals since C<nanosleep()> does not use signals. This, however, is not portable, and you should first check for the truth value of C<&Time::HiRes::d_nanosleep> to see whether you have nanosleep, and then carefully read your C<nanosleep()> C API documentation for any peculiarities.

If you are using C<nanosleep> for something else than mixing sleeping with signals, give some thought to whether Perl is the tool you should be using for work requiring nanosecond accuracies.

Remember that unless you are working on a I<hard realtime> system, any clocks and timers will be imprecise, especially so if you are working in a pre-emptive multiuser system. Understand the difference between I<wallclock time> and process time (in UNIX-like systems the sum of I<user> and I<system> times). Any attempt to sleep for X seconds will most probably end up sleeping B<more> than that, but don’t be surprised if you end up sleeping slightly B<less>.

The following functions can be imported from this module.
No functions are exported by default.

=over 4

=item gettimeofday ()

In array context returns a two-element array with the seconds and microseconds since the epoch. In scalar context returns floating seconds like C<Time::HiRes::time()> (see below).
=item usleep ( $useconds )

Sleeps for the number of microseconds (millionths of a second) specified. Returns the number of microseconds actually slept. Can sleep for more than one second, unlike the C<usleep> system call. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::usleep()> , C<Time::HiRes::sleep()> , and C<Time::HiRes::clock_nanosleep()>.

Do not expect usleep() to be exact down to one microsecond.

=item nanosleep ( $nanoseconds )

Sleeps for the number of nanoseconds (1e9ths of a second) specified. Returns the number of nanoseconds actually slept (accurate only to microseconds, the nearest thousand of them). Can sleep for more than one second. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::sleep()> , C<Time::HiRes::usleep()> , and C<Time::HiRes::clock_nanosleep()>.

Do not expect nanosleep() to be exact down to one nanosecond. Getting even accuracy of one thousand nanoseconds is good.

=item ualarm ( $useconds [, $interval_useconds ] )

Issues a C<ualarm> call; the C<$interval_useconds> is optional and will be zero if unspecified, resulting in C<alarm>-like behaviour.

Returns the remaining time in the alarm in microseconds, or C<undef> if an error occurred.

ualarm(0) will cancel an outstanding ualarm().

Note that the interaction between alarms and sleeps is unspecified.

=item tv_interval

tv_interval ( $ref_to_gettimeofday [, $ref_to_later_gettimeofday] )

Returns the floating seconds between the two times, which should have been returned by C<gettimeofday()> . If the second argument is omitted, then the current time is used.

=item time ()

Returns a floating seconds since the epoch. This function can be imported, resulting in a nice drop-in replacement for the C<time>
provided with core Perl; see the L</EXAMPLES> below.

B<NOTE 1>: This higher resolution timer can return values either less
or more than the core C<time()>, depending on whether your platform
rounds the higher resolution timer values up, down, or to the nearest second
to get the core C<time()>, but naturally the difference should be never
more than half a second. See also L</clock_getres>, if available
in your system.

B<NOTE 2>: Since Sunday, September 9th, 2001 at 01:46:40 AM GMT, when
the C<time()> seconds since epoch rolled over to 1_000_000_000, the
default floating point format of Perl and the seconds since epoch have
conspired to produce an apparent bug: if you print the value of
C<Time::HiRes::time()> you seem to be getting only five decimals, not
six as promised (microseconds). Not to worry, the microseconds are
there (assuming your platform supports such granularity in the first
place). What is going on is that the default floating point format of
Perl only outputs 15 digits. In this case that means ten digits
before the decimal separator and five after. To see the microseconds
you can use either C<printf>/C<sprintf> with C"%.6f", or the
C<gettimeofday()> function in list context, which will give you the
seconds and microseconds as two separate values.

=item sleep ( $floating_seconds )

Sleeps for the specified amount of seconds. Returns the number of
seconds actually slept (a floating point value). This function can
be imported, resulting in a nice drop-in replacement for the C<sleep>
provided with perl, see the L</EXAMPLES> below.

Note that the interaction between alarms and sleeps is unspecified.

=item alarm ( $floating_seconds [, $interval_floating_seconds ] )

The C<SIGALRM> signal is sent after the specified number of seconds.
Implemented using C<setitimer()> if available, C<ualarm()> if not.
The C<$interval_floating_seconds> argument is optional and will be
zero if unspecified, resulting in C<alarm()>-like behaviour. This
function can be imported, resulting in a nice drop-in replacement for
the C<alarm> provided with perl, see the L</EXAMPLES> below.

Returns the remaining time in the alarm in seconds, or C<undef>
if an error occurred.

B<NOTE 1>: With some combinations of operating systems and Perl
releases C<SIGALRM> restarts C<select>(), instead of interrupting it.
This means that an C<alarm()> followed by a C<select()> may together
take the sum of the times specified for the C<alarm()> and the
C<select()>, not just the time of the C<alarm()>.

Note that the interaction between alarms and sleeps is unspecified.

=item setitimer ( $which, $floating_seconds [, $interval_floating_seconds ] )

Start up an interval timer: after a certain time, a signal ($which) arrives, and more signals may keep arriving at certain intervals. To disable an "timer", use C<$floating_seconds> of zero. If the C<$interval_floating_seconds> is set to zero (or unspecified), the timer is disabled after the next delivered signal.

Use of interval timers may interfere with C<alarm()>, C<sleep()>, and C<usleep()>. In standard-speak the "interaction is unspecified", which means that I<anything> may happen: it may work, it may not.

In scalar context, the remaining time in the timer is returned.

In list context, both the remaining time and the interval are returned.

There are usually three or four interval timers (signals) available: the C<$which> can be C<ITIMER_REAL>, C<ITIMER_VIRTUAL>, C<ITIMER_PROF>, or C<ITIMER_REALPROF>. Note that which ones are available depends: true UNIX platforms usually have the first three, but only Solaris seems to have C<ITIMER_REALPROF> (which is used to profile multithreaded programs). Win32 unfortunately does not have interval timers.

C<ITIMER_REAL> results in C<alarm()>-like behaviour. Time is counted in I<real time>; that is, wallclock time. C<SIGALRM> is delivered when the timer expires.

C<ITIMER_VIRTUAL> counts time in (process) I<virtual time>; that is, only when the process is running. In multiprocessor/user/CPU systems this may be more or less than real or wallclock time. (This time is also known as the I<user time>.) C<SIGVTALRM> is delivered when the timer expires.

C<ITIMER_PROF> counts time when either the process virtual time or when the operating system is running on behalf of the process (such as I/O). (This time is also known as the I<system time>.) (The sum of user time and system time is known as the I<CPU time>.) C<SIGPROF> is delivered when the timer expires. C<SIGPROF> can interrupt system calls.

The semantics of interval timers for multithreaded programs are system-specific, and some systems may support additional interval timers. For example, it is unspecified which thread gets the signals. See your C<setitimer()> documentation.
Return the remaining time in the interval timer specified by C<$which>.

In scalar context, the remaining time is returned.

In list context, both the remaining time and the interval are returned.
The interval is always what you put in using C<setitimer()>.

Return as seconds the current value of the POSIX high resolution timer specified by C<$which>. All implementations that support POSIX high resolution timers are supposed to support at least the C<$which> value of C<CLOCK_REALTIME>, which is supposed to return results close to the results of C<gettimeofday>, or the number of seconds since 00:00:00:00 January 1, 1970 Greenwich Mean Time (GMT). Do not assume that CLOCK_REALTIME is zero, it might be one, or something else.

Another potentially useful (but not available everywhere) value is C<CLOCK_MONOTONIC>, which guarantees a monotonically increasing time value (unlike time() or gettimeofday(), which can be adjusted).

See your system documentation for other possibly supported values.

Return as seconds the resolution of the POSIX high resolution timer specified by C<$which>. All implementations that support POSIX high resolution timers are supposed to support at least the C<$which> value of C<CLOCK_REALTIME>, see L</clock_gettime>.

Sleeps for the number of nanoseconds (1e9ths of a second) specified. Returns the number of nanoseconds actually slept. The $which is the "clock id", as with clock_gettime() and clock_getres(). The flags default to zero but C<TIMER_ABSTIME> can specified (must be exported explicitly) which means that C<$nanoseconds> is not a time interval (as is the default) but instead an absolute time. Can sleep for more than one second. Can also sleep for zero seconds, which often works like a I<thread yield>. See also C<Time::HiRes::sleep()>.

Do not expect clock_nanosleep() to be exact down to one nanosecond. Getting even accuracy of one thousand nanoseconds is good.

Return as seconds the I<process time> (user + system time) spent by
the process since the first call to clock() (the definition is not "since the start of the process", though if you are lucky these times may be quite close to each other, depending on the system). What this means is that you probably need to store the result of your first call to clock(), and subtract that value from the following results of clock().

The time returned also includes the process times of the terminated child processes for which wait() has been executed. This value is somewhat like the second value returned by the times() of core Perl, but not necessarily identical. Note that due to backward compatibility limitations the returned value may wrap around at about 2147 seconds or at about 36 minutes.

=item stat

=item stat FH

=item stat EXPR

As perlfunc/stat> but with the access/modify/change file timestamps in subsecond resolution, if the operating system and the filesystem both support such timestamps. To override the standard stat():

    use Time::HiRes qw(stat);

Test for the value of &Time::HiRes::d_hires_stat to find out whether the operating system supports subsecond file timestamps: a value larger than zero means yes. There are unfortunately no easy ways to find out whether the filesystem supports such timestamps. UNIX filesystems often do; NTFS does; FAT doesn't (FAT timestamp granularity is not two seconds).

A zero return value of &Time::HiRes::d_hires_stat means that Time::HiRes::stat is a no-op passthrough for CORE::stat(), and therefore the timestamps will stay integers. The same thing will happen if the filesystem does not do subsecond timestamps, even if the &Time::HiRes::d_hires_stat is non-zero.

In any case do not expect nanosecond resolution, or even a microsecond resolution. Also note that the modify/access timestamps might have different resolutions, and that they need not be synchronized, e.g. if the operations are

   write
   stat # t1
   read
   stat # t2
the access time stamp from t2 need not be greater-than the modify
time stamp from t1: it may be equal or less.

=head1 EXAMPLES

use Time::HiRes qw(usleep ualarm gettimeofday tv_interval);

$microseconds = 750_000;
usleep($microseconds);

# signal alarm in 2.5s & every .1s thereafter
ualarm(2_500_000, 100_000);
# cancel that ualarm
ualarm(0);

# get seconds and microseconds since the epoch
($s, $usec) = gettimeofday();

# measure elapsed time
# (could also do by subtracting 2 gettimeofday return values)
$t0 = [gettimeofday];
# do bunch of stuff here
$t1 = [gettimeofday];
# do more stuff here
$t0_t1 = tv_interval $t0, $t1;

$elapsed = tv_interval ($t0, [gettimeofday]);
$elapsed = tv_interval ($t0); # equivalent code

# replacements for time, alarm and sleep that know about
# floating seconds
# use Time::HiRes;
$now_fractions = Time::HiRes::time;
Time::HiRes::sleep (2.5);
Time::HiRes::alarm (10.6666666);

use Time::HiRes qw ( time alarm sleep );
$now_fractions = time;
sleep (2.5);
alarm (10.6666666);

# Arm an interval timer to go off first at 10 seconds and
# after that every 2.5 seconds, in process virtual time
use Time::HiRes qw ( setitimer ITIMER_VIRTUAL time );

$SIG{VTALRM} = sub { print time, "\n" }; setitimer(ITIMER_VIRTUAL, 10, 2.5);

use Time::HiRes qw( clock_gettime clock_getres CLOCK_REALTIME );
# Read the POSIX high resolution timer.
my $high = clock_getres(CLOCK_REALTIME);
# But how accurate we can be, really?
my $reso = clock_getres(CLOCK_REALTIME);

use Time::HiRes qw( clock_nanosleep TIMER_ABSTIME );
clock_nanosleep(CLOCK_REALTIME, 1e6);
clock_nanosleep(CLOCK_REALTIME, 2e9, TIMER_ABSTIME);

use Time::HiRes qw( clock );
my $clock0 = clock();
... # Do something.
my $clock1 = clock();
my $clockd = $clock1 - $clock0;

use Time::HiRes qw( stat );
my ($atime, $mtime, $ctime) = (stat("istics"))[8, 9, 10];

=head1 C API

In addition to the perl API described above, a C API is available for extension writers. The following C functions are available in the modglobal hash:

<table>
<thead>
<tr>
<th>name</th>
<th>C prototype</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time::NVtime</td>
<td>double (*)()</td>
</tr>
<tr>
<td>Time::U2time</td>
<td>void (*)(pTHX_ UV ret[2])</td>
</tr>
</tbody>
</table>

Both functions return equivalent information (like C<gettimeofday>) but with different representations. The names C<NVtime> and C<U2time> were selected mainly because they are operating system independent. (C<gettimeofday> is Unix-centric, though some platforms like Win32 and VMS have emulations for it.)

Here is an example of using C<NVtime> from C:

double (*myNVtime)(); /* Returns -1 on failure. */
SV **svp = hv_fetch(PL_modglobal, "Time::NVtime", 12, 0);
if (!svp)        croak("Time::HiRes is required");
if (!SvOK(*svp)) croak("Time::NVtime isn\'t a function pointer");
myNVtime = INT2PTR(double(), SvIV(*svp));
printf("The current time is: \%f\n", (*myNVtime)());

=head1 DIAGNOSTICS

=head2 useconds or interval more than ...

In ualarm() you tried to use number of microseconds or interval (also in microseconds) more than 1_000_000 and setitimer() is not available in your system to emulate that case.

=head2 negative time not invented yet

You tried to use a negative time argument.

=head2 internal error: useconds < 0 (unsigned ... signed ...)

Something went horribly wrong-- the number of microseconds that cannot become negative just became negative. Maybe your compiler is broken?

=head2 useconds or uinterval equal to or more than 1000000

In some platforms it is not possible to get an alarm with subsecond resolution and later than one second.

=head2 unimplemented in this platform

Some calls simply aren't available, real or emulated, on every platform.

=head1 CAVEATS

Notice that the core C<time()> maybe rounding rather than truncating. What this means is that the core C<time()> may be reporting the time as one second later than C<gettimeofday()> and C<Time::HiRes::time()>.

Adjusting the system clock (either manually or by services like ntp) may cause problems, especially for long running programs that assume a monotonously increasing time (note that all platforms do not adjust time as gracefully as UNIX ntp does). For example in Win32 (and derived platforms like Cygwin and MinGW) the Time::HiRes::time() may temporarily drift off from the system clock (and the original time()) by up to 0.5 seconds. Time::HiRes will notice this eventually and recalibrate. Note that since Time::HiRes 1.77 the clock_gettime(CLOCK_MONOTONIC) might help in this (in case your system supports CLOCK_MONOTONIC).

Some systems have APIs but not implementations: for example QNX and Haiku have the interval timer APIs but not the functionality.

=head1 SEE ALSO
Perl modules L<BSD::Resource>, L<Time::TAI64>.

Your system documentation for C<clock>, C<clock_gettime>,
C<clock_getres>, C<clock_nanosleep>, C<clock_settime>, C<getitimer>,
C<gettimeofday>, C<setitimer>, C<sleep>, C<stat>, C<alarm>.

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J. Hietaniemi <jhi@iki.fi>
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=cut

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Found in path(s):
* /opt/cola/permits/1148334669_1619431503.8/0/perl-Time-HiRes-1.9725-3.el7-1.src.rpm-cosi-expand-archive-qqqzkPDm/perl-Time-HiRes.spec
No license file was found, but licenses were detected in source scan.

Time::HiRes module: High resolution time, sleep, and alarm.

Implement usleep, ualarm, and gettimeofday for Perl, as well as wrappers
to implement time, sleep, and alarm that know about non-integral seconds.

Note: the tests of this module are by definition time sensitive: under
heavy loads the tests may fail. Reasonable relaxed criteria are being
used for the tests but sometimes you may still see transient failures.
Rerun the tests (make test) a couple of times, preferably with less load on the testing machine.

Also, older versions of Perl do not support `-nolinenumbers’ on the XSUBPP command, however, 5.004_03 requires it (on my box, anyway) since the #line generating code in XSUBPP appears to have problems with ifndef .xs code. If xsubpp complains about usage when you do a make, look at the top of the Makefile.PL and comment out the "$XSOPT=" line. Or upgrade to a newer version of Perl.

POD documentation is embedded.


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1.1717 vorbis-tools 1.4.0-13.el7
1.1717.1 Available under license:

This package was debianized by Christopher L Cheney <ccheney@debian.org> on Tue, 31 Oct 2000 16:38:42 -0600.

Adeodato Sim <dato@net.com.org.es> stepped as a co-maintainer on Sat, 19 Nov 2005 12:04:38 +0100.

It was downloaded from http://www.xiph.org/downloads/:

URL: <http://downloads.xiph.org/releases/vorbis/vorbis-tools-1.1.1.tar.gz>

Upstream Authors: Kenneth Arnold <ogg123@arnoldnet.net>
Segher Boessenkool <segher@xiph.org>
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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this License. You must supply a copy of this License. If the work
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copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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specified in Subsection 6a, above, for a charge no more
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which the executable runs, unless that component itself accompanies
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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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1.1722 commons-http-client 3.1

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1.1723 glibc 2.27-3ubuntu1.4

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1.1727 perl-carp 1.26-244.el7

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---
abstract: 'alternative warn and die for modules'
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.6302, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Carp
no_index:
directory:
- t
- inc
requires:
  Exporter: 0
  IPC::Open3: 1.0103
  Test::More: 0
  strict: 0
  warnings: 0
version: 1.26

Found in path(s):
* /opt/cola/permits/1135855290_1613616277.4/0/perl-Carp-1.26-244.el7-1.src.rpm-cosi-expand-archive-uTFUu0M/Carp-1.26.tar.gz-cosi-expand-archive-bamXpm7i/Carp-1.26/META.yml
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=head1 NAME
Carp - alternative warn and die for modules

=head1 SYNOPSIS

use Carp;

# warn user (from perspective of caller)
carp "string trimmed to 80 chars";

# die of errors (from perspective of caller)
croak "We're outta here!";

# die of errors with stack backtrace
confess "not implemented";

# cluck not exported by default
use Carp qw(cluck);
cluck "This is how we got here!";

=head1 DESCRIPTION

The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use C<carp> or C<croak> which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of C<Carp> works, by changing some global variables in the C<Carp> namespace. See the section on C<GLOBAL VARIABLES> below.

Here is a more complete description of how C<carp> and C<croak> work. What they do is search the call-stack for a function call stack where they have not been told that there shouldn't be an error. If every call is marked safe, they give up and give a full stack backtrace instead. In other words they presume that the first likely looking potential suspect is guilty. Their rules for telling whether a call shouldn't generate errors work as follows:

=over 4

=item 1.

Any call from a package to itself is safe.
=item 2.

Packages claim that there won't be errors on calls to or from packages explicitly marked as safe by inclusion in C<@CARP_NOT>, or (if that array is empty) C<@ISA>. The ability to override what @ISA says is new in 5.8.

=item 3.

The trust in item 2 is transitive. If A trusts B, and B trusts C, then A trusts C. So if you do not override C<@ISA> with C<@CARP_NOT>, then this trust relationship is identical to, "inherits from".

=item 4.

Any call from an internal Perl module is safe. (Nothing keeps user modules from marking themselves as internal to Perl, but this practice is discouraged.)

=item 5.

Any call to Perl's warning system (eg Carp itself) is safe. (This rule is what keeps it from reporting the error at the point where you call C<carp> or C<croak>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional call levels. Using this is not recommended because it is very difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess and a carp as a cluck across I<all> modules. In other words, force a detailed stack trace to be given. This can be very helpful when trying to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol 'verbose'. You would typically enable it by saying

    perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT
environment variable.

Alternately, you can set the global variable $Carp::Verbose to true. See the \texttt{GLOBAL VARIABLES} section below.

=head1 GLOBAL VARIABLES

=head2 $Carp::MaxEvalLen

This variable determines how many characters of a string-eval are to be shown in the output. Use a value of 0 to show all text.

Defaults to 0.

=head2 $Carp::MaxArgLen

This variable determines how many characters of each argument to a function to print. Use a value of 0 to show the full length of the argument.

Defaults to 64.

=head2 $Carp::MaxArgNums

This variable determines how many arguments to each function to show. Use a value of 0 to show all arguments to a function call.

Defaults to 8.

=head2 $Carp::Verbose

This variable makes carp and croak generate stack backtraces just like cluck and confess. This is how use Carp \texttt{verbose} is implemented internally.

Defaults to 0.

=head2 @CARP_NOT

This variable, in your package, says which packages are not to be considered as the location of an error. The carp and cluck functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

# These work
our @CARP_NOT; # file scope
use vars qw(@CARP_NOT); # package scope
@My::Package::CARP_NOT = ... ; # explicit package variable

# These don't work
sub xyz { ... @CARP_NOT = ... } # w/o declarations above
my @CARP_NOT; # even at top-level

Example of use:

package My::Carping::Package;
use Carp;
our @CARP_NOT;
sub bar { .... or _error('Wrong input') }
sub _error {
    # temporary control of where'ness, __PACKAGE__ is implicit
    local @CARP_NOT = qw(My::Friendly::Caller);
    carp(@_)
}

This would make C<Carp> report the error as coming from a caller not
in C<My::Carping::Package>, nor from C<My::Friendly::Caller>.

Also read the L</DESCRIPTION> section above, about how C<Carp> decides
where the error is reported from.

Use C:@CARP_NOT>, instead of C<$Carp::CarpLevel>.

Overrides C<Carp>’s use of C:@ISA>.

=head2 %Carp::Internal

This says what packages are internal to Perl. C<Carp> will never
report an error as being from a line in a package that is internal to
Perl. For example:

$Carp::Internal{ (__PACKAGE__) }++;    # time passes...
sub foo { ... or confess("whatever") };    

would give a full stack backtrace starting from the first caller
outside of __PACKAGE__. (Unless that package was also internal to
Perl.)

=head2 %Carp::CarpInternal

This says which packages are internal to Perl’s warning system. For
generating a full stack backtrace this is the same as being internal
to Perl, the stack backtrace will not start inside packages that are
listed in C<%Carp::CarpInternal>. But it is slightly different for
the summary message generated by C<carp> or C<croak>. There errors will not be reported on any lines that are calling packages in C<%Carp::CarpInternal>.

For example C<Carp> itself is listed in C<%Carp::CarpInternal>. Therefore the full stack backtrace from C<confess> will not start inside of C<Carp>, and the short message from calling C<croak> is not placed on the line where C<croak> was called.

=head2 $Carp::CarpLevel

This variable determines how many additional call frames are to be skipped that would not otherwise be when reporting where an error occurred on a call to one of C<Carp>'s functions. It is fairly easy to count these call frames on calls that generate a full stack backtrace. However it is much harder to do this accounting for calls that generate a short message. Usually people skip too many call frames. If they are lucky they skip enough that C<Carp> goes all of the way through the call stack, realizes that something is wrong, and then generates a full stack backtrace. If they are unlucky then the error is reported from somewhere misleading very high in the call stack.

Therefore it is best to avoid C<$Carp::CarpLevel>. Instead use C<@CARP_NOT>, C<%Carp::Internal> and C<%Carp::CarpInternal>

Defaults to C<0>.

=head1 BUGS

The Carp routines don't handle exception objects currently. If called with a first argument that is a reference, they simply call die() or warn(), as appropriate.

=head1 SEE ALSO

L<Carp::Always>,
L<Carp::Clan>

=head1 AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution. Since then it has been modified by several of the perl 5 porters. Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent distribution.

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NAME

Carp - alternative warn and die for modules

DESCRIPTION

The Carp routines are useful in your own modules because they act like die() or warn(), but with a message which is more likely to be useful to a user of your module. In the case of cluck, confess, and longmess that context is a summary of every call in the call-stack. For a shorter message you can use carp or croak which report the error as being from where your module was called. There is no guarantee that that is where the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing some global variables in the Carp namespace.

INSTALLATION

perl Makefile.PL
make
make test
make install

AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution.
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Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent
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* /opt/cola/permits/1135855290_1613616277.4/0/perl-Carp-1.26-244.el7-1.src.rpm-cosi-expand-archive-
uTFUu0M/Carp-1.26.tar.gz-cosi-expand-archive-bamXpm7i/Carp-1.26/README

1.1728 seabios 1.11.0-2.el7

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From 7fd4ebf9313154f3b3458ea07d6a12f0be26d2a4e Mon Sep 17 00:00:00 2001
From: Lee Duncan <lduncan@suse.com>
Date: Wed, 21 Mar 2018 16:43:33 -0700
Subject: [PATCH] Use correct size when copying nic name.

The incorrect length was being used to copy the NIC name.

Found by gcc-8, which gave this error:
> [ 19s] nic_utils.c: In function 'nic_util_enable_disable_multicast':
> [ 19s] nic_utils.c:308:9: warning: argument to 'sizeof' in 'strncpy'
>             call is the same expression as the source; did you mean to
>             use the size of the destination? [-Wsizeof-pointer-memaccess]
> [ 19s]   sizeof(nic->eth_device_name));
> [ 19s]     ^
---
iscsiuio/src/unix/nic_utils.c | 2 +-.
1 file changed, 1 insertion(+), 1 deletion(-)

diff --git a/iscsiuio/src/unix/nic_utils.c b/iscsiuio/src/unix/nic_utils.c
index e2f294389840..786f2a4d5b5d 100644
--- a/iscsiuio/src/unix/nic_utils.c
+++ b/iscsiuio/src/unix/nic_utils.c
@@ -305,7 +305,7 @@ static int nic_util_enable_disable_multicast(nic_t *nic, uint32_t cmd)
 */

 memset(&ifr, 0, sizeof(ifr));
 strncpy(ifr.ifr_name, nic->eth_device_name,
-        sizeof(nic->eth_device_name));
+        sizeof(ifr.ifr_name));
 mempcpy(ifr.ifr_hwaddr.sa_data, multicast_addr.addr, ETH_ALEN);

 fd = socket(AF_INET, SOCK_DGRAM, 0);
--
2.17.2
1.1733 kitchen 1.1.1

1.1733.1 Available under license:

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1.1740 lua 5.2.2

1.1741 debianutils 4.8.4
1.1741.1 Available under license:
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Go support for Protocol Buffers - Google's data interchange format
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https://github.com/golang/protobuf

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   d) If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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@enumerate

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This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end example

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@c man end

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HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@m.tiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.  
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.  
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader  
specific code.  Manuel Serrano (serrano@cornas.inria.fr) supplied linux and  
Sony News specific code.  Al Dosser provided Alpha/OSF/1 code.  He and  
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.  
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.  
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to  
a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to  
nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the  
code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the  
current typed allocation facility.  (His dynamic type inference code hasn’t  
made it into the released version of the collector, yet.)  
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/examples/AuthCommonExamples.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/PRNG.java
* /opt/cola/permits/1101064199_1603114222.41/0/vertx-auth-common-3-9-4-sources-jar/io/vertx/ext/auth/package-info.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/SequentialExecutor.java
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 */

/**
 * Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
 * version.
 */

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 */
/**
 * Holder for web specializations of methods of [ @code Shorts]. Intended to be empty for regular
 * version.
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ImmutableMap.java
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  jar/com/google/common/collect/ImmutableMultimap.java
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  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/MultiInputStream.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/AsyncEventBus.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CountingInputStream.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/Flushables.java
  * /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FinalizableReference.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/FinalizableReferenceQueue.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/CompactHashing.java
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*/
/**
* Outer class that exists solely to let us write \{@code Partially.GwtIncompatible\} instead of plain
* \{@code GwtIncompatible\}. This is more accurate for \{@link Futures#catching\}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use \{@code PartiallyGwtIncompatible\} because then the GWT compiler wouldn't recognize
* it as a \{@code GwtIncompatible\} annotation. And for \{@code Futures.catching\}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

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  jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/eventbus/SubscriberRegistry.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/HashBasedTable.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/RegularImmutableBiMap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/UnmodifiableIterator.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Serialization.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/PeekingIterator.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableMapKeySet.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/ImmutableBiMap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/StandardRowSortedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/SingletonImmutableBiMap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/TreeBasedTable.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/Platform.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collection/RegularImmutableMap.java

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  jar/com/google/common/base/CommonPattern.java
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  jar/com/google/common/base/JdkPattern.java
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
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 */

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/LittleEndianByteArray.java

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*/
/**
 * Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
 * version.
 */

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jar/com/google/common/hash/ImmutableSupplier.java
* /opt/ cola/ permits/ 1110737159_1606846951.59/0/ guava-29-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/ cola/ permits/ 1110737159_1606846951.59/0/ guava-29-0-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableMultiset.java

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jar/com/google/common/util/concurrent/AtomicLongMap.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/GeneralRange.java
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/*
 * This following method is a modified version of one found in
 * http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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 */

/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in

* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* limitations under the License.
*/
/**
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
* 
* <p>TODo(kevinb): support concurrently modified collections?
* 
* @param c the collection for which to return an array of elements
*/

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/graph/ForwardingNetwork.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/io/Closer.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/Stats.java

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  jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/Network.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/graph/Graphs.java
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*/
/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}</b>
 * key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 *
 * @deprecated <b>Pass a key of type {@code Comparable} to use {@link
 *     ImmutableSortedMap#of(Comparable, Object)}.</b>
 */

Found in path(s):
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
  jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
 *
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/reflection/TypeParameter.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/primitives/UnsignedInts.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/RegularImmutableMultiset.java

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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/math/package-info.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/base/Optional.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/util/concurrent/AbstractStreamingHasher.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/hashing/Hashing.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/BoundType.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/hashing/Hashing.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3.jar/com/google/common/collection/BoundType.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/AbstractSetMultimap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/ForwardingConcurrentMap.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-jar/com/google/common/collect/TreeMultiset.java
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jar/com/google/common/collect/UsingToStringOrdering.java
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jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/EnumHashBiMap.java
* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collect/ByFunctionOrdering.java
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/collection/Multiset.java

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jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/cache/LongAdder.java
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* /opt/cola/permits/1110737159_1606846951.59/0/guava-29-0-jre-sources-3-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
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jar/com/google/common/graph/BaseGraph.java
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jar/com/google/common/graph/Traverser.java
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1.1752 sysfsutils 2.1.0 16.el7

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
  jar/org/osgi/service/condpermadmin/ConditionalPermissionUpdate.java
* /opt/cola/permits/1136651970_1613848941.46/0/org/osgi/framework/hooks/service/FindHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org/osgi/framework/hooks/service/EventHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org/osgi/framework/hooks/service/ListenerHook.java
* /opt/cola/permits/1136651970_1613848941.46/0/org/osgi/framework/launch/Framework.java

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  jar/org/osgi/service/condpermadmin/ConditionInfo.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
  jar/org/osgi/framework/FrameworkEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
  jar/org/osgi/service/condpermadmin/ConditionalPermissionInfo.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
  jar/org/osgi/framework/Version.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
  jar/org/osgi/service/condpermadmin/BundlePermission.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
  jar/org/osgi/service/condpermadmin/Condition.java

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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
  jar/org/osgi/service/condpermadmin/BundleLocationCondition.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
jar/org/osgi/framework/AllServiceListener.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/launch/FrameworkFactory.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/SignerProperty.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleReference.java
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*/
/**
 * Return the certificates for the signers of this bundle and the
 * certificate chains for those signers.
 *
 * @param signersType If @link SIGNERS_ALL is specified, then information
 * on all signers of this bundle is returned. If
 * @link SIGNERS_TRUSTED is specified, then only information on
 * the signers of this bundle trusted by the framework is returned.
 *
 * @return The @code X509Certificate @code s for the signers of this bundle
 * and the @code X509Certificate @code chains for those signers.
 * The keys of the @code Map @code are the
 * @code X509Certificate @code s of the signers of this bundle. The
 * value for a key is a @code List @code containing the
 * @code X509Certificate @code chain for the signer. The first item
 * in the @code List @code is the signer's
 * @code X509Certificate @code which is then followed by the rest
 * of the @code X509Certificate @code chain. The returned
 * @code Map @code will be empty if there are no signers. The
 * returned @code Map @code is the property of the caller who is
 * free to modify it.
 *
 * @throws IllegalArgumentException If the specified
 * @code signersType @code is not @link SIGNERS_ALL or
 * @link SIGNERS_TRUSTED.
 *
 * @since 1.5
 */

Found in path(s):
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework(Bundle.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/SynchronousBundleListener.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/permissionadmin/PermissionAdmin.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/packageadmin/ExportedPackage.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceException.java
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Found in path(s):
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleException.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/InvalidSyntaxException.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceFactory.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/FrameworkListener.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleListener.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceListener.java

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Found in path(s):
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleActivator.java
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* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleContext.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/BundleEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceEvent.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceRegistration.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServicePermission.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/ServiceReference.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/Filter.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/Configurable.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/URLStreamHandlerService.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/URLStreamHandlerSetter.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/AbstractURLStreamHandlerService.java
* /opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/service/url/URLConstants.java

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*/
/**
 * Creates a new <code>PackagePermission</code> object.
 *
 * <p>
 * The name is specified as a normal Java package name: a dot-separated
 * string. Wildcards may be used.
 *
 * <pre>
 * name ::= &lt;package name&gt; | &lt;package name ending in &quot;.*&quot; | *
 * </pre>
 *
 * Examples:
 *
 * <pre>
 * org.osgi.service.http
 * javax.servlet.*
 * *
 * </pre>
 *
 * For the <code>import</code> action, the name can also be a filter
 * expression. The filter gives access to the following attributes:
 * <ul>
 * <li>signer - A Distinguished Name chain used to sign the exporting
 * bundle. Wildcards in a DN are not matched according to the filter string
 * rules, but according to the rules defined for a DN chain.</li>
 * <li>location - The location of the exporting bundle.</li>
 * <li>id - The bundle ID of the exporting bundle.</li>
 * <li>name - The symbolic name of the exporting bundle.</li>
 * <li>package.name - The name of the requested package.</li>
 * </ul>
 * Filter attribute names are processed in a case sensitive manner.
 *
 * <p>
 * Package Permissions are granted over all possible versions of a package.
 */
* A bundle that needs to export a package must have the appropriate
* `<code>PackagePermission</code>` for that package; similarly, a bundle that
* needs to import a package must have the appropriate
* `<code>PackagePermission</code>` for that package.
* `<p>`
* Permission is granted for both classes and resources.
* `
* @param name Package name or filter expression. A filter expression can
* only be specified if the specified action is `<code>import</code>`.
* @param actions `<code>exportonly</code>`, `<code>import</code>` (canonical
* order).
* @throws IllegalArgumentException If the specified name is a filter
* expression and either the specified action is not
* `<code>import</code>` or the filter has an invalid syntax.
* `*/`

Found in path(s):
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* `*/`

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  jar/org/osgi/service/permissionadmin/PermissionInfo.java`
* `/opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-
  jar/org/osgi/service/packageadmin/PackageAdmin.java`
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/**
 * Specified the persistent storage area used by the framework. The value of
 * this property must be a valid file path in the file system to a
 * directory. If the specified directory does not exist then the framework
 * will create the directory. If the specified path exists but is not a
 * directory or if the framework fails to create the storage directory, then
 * framework initialization must fail. The framework is free to use this
 * directory as it sees fit. This area can not be shared with anything else.
 * <p>
 * If this property is not set, the framework should use a reasonable
 * platform default for the persistent storage area.
 * <p>
 * @since 1.5
 */

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*/opt/cola/permits/1136651970_1613848941.46/0/org-osgi-core-4-2-0-sources-2-jar/org/osgi/framework/Constants.java

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1.1761 libogg 1.3.0-7.el7

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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The header files "include/image.h" and "arch/*/include/asm/u-boot.h" define interfaces to U-Boot. Including these (unmodified) header files in another file is considered normal use of U-Boot, and does *not* fall under the heading of "derived work".

-- Wolfgang Denk

/*
 * FreeBSD strace list
 *
 *
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 *
 */

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
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TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)\", NULL, NULL },
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TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(%\"\", %d)\", NULL, NULL },
TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)\", NULL, NULL },
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TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(%\"\", %d, %d, %#x)\", NULL, NULL },
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TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
TARGET_FREEBSD_NR___syscall, "__syscall", NULL, print_sysctl, NULL },
TARGET_FREEBSD_NR___umtx_op, "__umtx_op", "%s(%#x, %d, %d, %#x, %#x)\", NULL, NULL },
TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %#x, %d, %#x)\", NULL, NULL },
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TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
TARGET_FREEBSD_NR_chdir, "chdir", "%s(%\"\")\", NULL, NULL },
TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
TARGET_FREEBSD_NR_chmod, "chmod", "%s(%\"\", %#o)\", NULL, NULL },
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TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
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TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
TARGET_FREEBSD_NR_close, "close", "%s(%d)\", NULL, NULL },
TARGET_FREEBSD_NR_connect, "connect", "%s(%d, %#x, %d)\", NULL, NULL },
TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(%\"\", %#x)\", NULL, NULL },
TARGET_FREEBSD_NR_exit, "exit", "%s(%#x)\", NULL, NULL },
TARGET_FREEBSD_NR_exitatexit, "exitatexit", "%s(%\"\", %d, \"%s\", %d, \"%s\")\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(%\"\", %d, \"%s\")\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(%\"\", %d, \"%s\")\", NULL, NULL },
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TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(%\"\", %d, \"%s\", %#x, %d)\", NULL, NULL },
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TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(%\"\", %d, %#x, %d)\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(%\"\", %d, %#x, %d)\", NULL, NULL },
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{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s",%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s("%s", %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s("%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s("%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "openat", "%s(%d,"%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s",%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setssockopt, "setssockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signaltstack, "signaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(\%#x\)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },

Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+    if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+    } else {
+        x86emu_dump_regs();
+    }
+}

    if (DEBUG_DECODE() && !DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
    sprintf(buf1+i+2*i,"%-02x", fetch_data_byte_abs(s,o+i));
}
-    printk("%-20s",buf1);
+
}

printk("%-20s ",buf1);

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+
case 0xc8:
+
DECODE_PRINTF("EAX\n");

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+ M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+ break;
+ case 0xc9:
+ DECODE_PRINTF("ECX
");
+ M.x86.R(ECX = x86emu_bswap(M.x86.R(ECX);
+ break;
+ case 0xca:
+ DECODE_PRINTF("EDX
");
+ M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+ break;
+ case 0xcb:
+ DECODE_PRINTF("EBX
");
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+ break;
+ case 0xcc:
+ DECODE_PRINTF("ESP
");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:
+ DECODE_PRINTF("EBP
");
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+ break;
+ case 0xce:
+ DECODE_PRINTF("ESI
");
+ M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+ break;
+ case 0xcf:
+ DECODE_PRINTF("EDI
");
+ M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+ break;
+ }
+ trace_and_step();
+ DECODE_CLEAR_SEGOVR();
+ end_of_instr();
+
+ @ @ -1702,14 +1763,14 @@
+ /* 0xc5 */ x86emuOp2_illegal_op,
+ /* 0xc6 */ x86emuOp2_illegal_op,
+ /* 0xc7 */ x86emuOp2_illegal_op,
+ /* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
+ /* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
+ /* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
+ /* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
+ /* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
+ /* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
+ /* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
+ /* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+ /* 0xc8 */ x86emuOp2_bswap,
/* 0x9 */ x86emuOp2_bswap,
/* 0xa */ x86emuOp2_bswap,
/* 0xb */ x86emuOp2_bswap,
/* 0xc */ x86emuOp2_bswap,
/* 0xd */ x86emuOp2_bswap,
/* 0xe */ x86emuOp2_bswap,
/* 0xf */ x86emuOp2_bswap,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ ops.c	20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
 imm = (s8)fetch_byte_imm();
 DECODE_PRINTF2("PUSH \%d\n", imm);
 TRACE_AND_STEP();
- push_word(imm);
+ if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ push_long(imm);
+ } else {
+ push_word(imm);
+ }
 DECODE_CLEAR_SEGOMR();
 END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
 target = (u16)(M.x86.R_IP + (s16)offset);
 DECODE_PRINTF2("%x\n", target);
 TRACE_AND_STEP();
- if (cond)
+ if (cond) {
 M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+ }
 DECODE_CLEAR_SEGOMR();
 END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
 count = 1;
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO */
- count = M.x86.R_CX;
/* move them until (E)CX is ZERO. */
count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
} DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
} DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

val1 = fetch_data_byte(M.x86.R_SI);
val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
  cmp_byte(val1, val2);
-  M.x86.R_CX -= 1;
+  if (M.x86.mode & SYSMODE_32BIT REP)
+      M.x86.R ECX -= 1;
    else
+      M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+    if (M.x86.intr & INTR_HALTED)
+      break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
  /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT REP) ? M.x86.R ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            cmp_word((u16)val1, (u16)val2);
        }
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT REP)
+            M.x86.R ECX -= 1;
        else
+        M.x86.R_CX -= 1;
M.x86.R_SI += inc;
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-            M.x86.R_CX -= 1;
+            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
+            else
+                M.x86.R_CX -= 1;
+            if (M.x86.intr & INTR_HALTED)
+                break;

            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        }
    }
@ @ -2783,9 +2812,11 @ @
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        count = M.x86.R_CX;
        /* move them until (E)CX is ZERO. */
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
        M.x86.R_CX = 0;
    } else {
        while (count--) {
+            store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
        }
        M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
}
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@ @ -2817,11 +2850,16 @ @
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
        /* move them until CX is ZERO. */
        /* move them until (E)CX is ZERO. */
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_CX : M.x86.R_CX) != 0) {
    M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
    else
        M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}

if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    count = 1;
    while (count--) {
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}

DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    while (M.x86.R_CX != 0) {
        if (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
M.x86.R_ECX -= 1;
else
M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
break;
if (M.x86.intr & INTR_HALTED)
break;
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
  /* REPNE */
  /* move them until CX is ZERO. */
  while (M.x86.R_CX != 0) {
    /* move them until (E)CX is ZERO. */
    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
      cmp_byte(M.x86.R_AL, val2);
      M.x86.R_CX -= 1;
      if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
      else
        M.x86.R_CX -= 1;
      M.x86.R_DI += inc;
      if (ACCESS_FLAG(F_ZF))
        break;          /* zero flag set means equal */
      if (M.x86.intr & INTR_HALTED)
        break;
    }
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
  if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
-      /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
      val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
      cmp_word(M.x86.R_AX, (u16)val);
    }
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+  M.x86.R_CX -= 1;
 M.x86.R_DI += inc;
  if (ACCESS_FLAG(F_ZF) == 0)
    break;
+ if (M.x86.intr & INTR_HALTED)
+   break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
  /* REPNE */
  while (M.x86.R_CX != 0) {
    /* move them until (E)CX is ZERO. */
    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
@@ -2977,10 +3034,15 @@
          val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_word(M.x86.R_AX, (u16)val);
        }
-       M.x86.R_CX -= 1;
+       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX -= 1;
+       else
+           M.x86.R_CX -= 1;
 M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
      break;  /* zero flag set means equal */
+    if (M.x86.intr & INTR_HALTED)
+      break;
    }
 M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
 M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
 M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
```c
{  
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
    RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
    RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
    RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    M.x86.R_CX -= 1;
    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
    else
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+        !ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    DECODE_PRINTF("RETF\n");
    RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
    TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
    RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
```
```c
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
    ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
```
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:", cs);
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */
destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5: /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000
@@ -1921,7 +1921,7 @@
 void imul_long_direct(u32 *res_lo, u32* res_hi, u32 d, u32 s)
 {
     if (__HAS_LONG_LONG__)
-      s64 res = (s64)d * (s64)s;
+      s64 res = (s32)d * (s64)(s32)s;

     *res_lo = (u32)res;
     *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
 void mul_long(u32 s)
 {
     if (__HAS_LONG_LONG__)
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

     M.x86.R_EAX = (u32)res;
     M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
     /* dont care whether REPE or REPNE */
-    /* in until CX is ZERO. */
+    /* in until (E)CX is ZERO. */
    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* in until (E)CX is ZERO. */
    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
-    while (count--) { 
-        single_in(size);
-        M.x86.R_DI += inc;
-    }
-    M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
 } if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
            while (count--) {
                single_out(size);
                M.x86.R_SI += inc;
            }
-        M.x86.R_CX = 0;
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
 #include <x86emu/regs.h>
 #include "debug.h"
 #include "prim_ops.h"
-ifdef LINUXBIOS_VERSION
-include "io.h"
-else
-include <sys/io.h>
-endif

 ifdef IN_MODULE
 #include "xf86_ansic.h"
@@ -220,7 +215,7 @@
 }
 DB(if (DEBUG_IO_TRACE())
 printk("inb %#04x \n", addr);
-        return inb(addr);
+        return 0;
}
@@ -235,7 +230,7 @@
{     
    DB(if (DEBUG_IO_TRACE())
    printk("inw %#04x \n", addr);
-   return inw(addr);
+   return 0;
    }
}

******************************************************************************
@@ -250,7 +245,7 @@
{     
    DB(if (DEBUG_IO_TRACE())
    printk("inl %#04x \n", addr);
-   return inl(addr);
+   return 0;
    }
}

******************************************************************************
@@ -264,7 +259,6 @@
{     
    DB(if (DEBUG_IO_TRACE())
    printk("outb %#02x -> %#04x \n", val, addr);
-   outb(val, addr);
       return;
    }
}

******************************************************************************
@@ -279,7 +273,6 @@
{     
    DB(if (DEBUG_IO_TRACE())
    printk("outw %#04x -> %#04x \n", val, addr);
-   outw(val, addr);
       return;
    }
}

******************************************************************************
@@ -295,7 +288,6 @@
{     
    DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);
-   outl(val, addr);
       return;
    }
}

******************************************************************************
@@ -405,6 +397,6 @@
        
    void X86EMU_setMemBase(void *base, size_t size)
    {
-      M.mem_base = (int) base;
+      M.mem_base = base;
    }
+M.mem_base = (unsigned long) base;
M.mem_size = size;
}

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -00001.4
@@ -40,8 +40,6 @@
 #ifndef __X86EMU_DEBUG_H
 #define __X86EMU_DEBUG_H
 /*---------------------- Macros and type definitions ----------------------*/
-//#define DEBUG 0
-#undef DEBUG
 /* checks to be enabled for "runtime" */
 @ @ -78.6 +76.8 @@
 # define DEBUG_SYSINT() (M.x86.debug & DEBUG_SYSINT_F)
 # define DEBUG_TRACENCALL() (M.x86.debug & DEBUG_TRACECALL_F)
 # define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
 # define DEBUG_SYS() (M.x86.debug & DEBUG_SYS_F)
 # define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)
 # define DEBUG_IO_TRACE() (M.x86.debug & DEBUG_IO_TRACE_F)
 @ @ -.96.6 +96.8 @@
 # define DEBUG_SYSINT() 0
 # define DEBUG_TRACENCALL() 0
 # define DEBUG_TRACECALLREGS() 0
+# define DEBUG_TRACEJMP() 0
+# define DEBUG_TRACEJMPREGS() 0
 # define DEBUG_SYS() 0
 # define DEBUG_MEM_TRACE() 0
 # define DEBUG_IO_TRACE() 0
 @ @ -.169.14 +171.20 @@
 x86emu_dump_regs();
 if (DEBUG_TRACECALL())
  printf("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+## define RETURN_TRACE(u,v,w,x,s)
 if (DEBUG_TRACECALLREGS())
 x86emu_dump_regs();
 if (DEBUG_TRACECALL())
 -printf("%04x:%04x: %s\n",u,v,n);
```c
+printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define JMP_TRACE(u,v,w,x,s) \ 
+ if (DEBUG_TRACEJMPREGS()) \ 
+ x86emu_dump_regs(); \ 
+ if (DEBUG_TRACEJMP()) \ 
+ printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/regs.h	15 Jan 2008 13:46:40 -0000	1.4
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE    0x00000100
 #define SYSMODE_PREFIX_DATA     0x00000200
 #define SYSMODE_PREFIX_ADDR     0x00000400
+-/phueper: for REP(E|NE) Instructions, we need to decide whether it should be using
+-/the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
 #define SYSMODE_INTR_PENDING    0x10000000
 #define SYSMODE_EXTRN_INTR      0x20000000
 #define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS      | \
 SYSMODE_SEGOVR_SS      | \
 SYSMODE_PREFIX_DATA    | 
- SYSMODE_PREFIX_ADDR)  
+ SYSMODE_PREFIX_ADDR    | 
+ SYSMODE_32BIT_REP)
#define INTR_SYNCH           0x1
#define INTR_ASYNCH          0x2
@@ -274,9 +278,9 @@
 */
 u32 mode;
 volatile int intr; /**< mask of pending interrupts */
-int debug;
+ volatile int debug;
```
#ifdef DEBUG
-int     check;
+    int     check;
   u16     saved_ip;
   u16     saved_cs;
   int     enc_pos;

Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+##include <stdio.h>
#define printk printf
@endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F       0x020000
+#define DEBUG_TRACEJMP_REGS_F  0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef __cplusplus
}                       /* End of “C” linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */
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History
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Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.
In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
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uses the Library”, as object code and/or source code, so that the
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that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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   d) If a facility in the modified Library refers to a function or a
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      in the event an application does not supply such function or
      table, the facility still operates, and performs whatever part of
      its purpose remains meaningful.

      (For example, a function in a library to compute square roots has
      a purpose that is entirely well-defined independent of the
      application. Therefore, Subsection 2d requires that any
      application-supplied function or table used by this function must
      be optional: if the application does not supply it, the square
      root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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    h=mime-version:in-reply-to:references:date:message-id:subject:from:to
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b=cLeB4g35oZvZm8seV15mlwcMCGVS6QOXW4C8rz50RjybWbdiz7BDXbkrvowoSUJxhp
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MIME-Version: 1.0
Received: by 10.220.127.97 with SMTP id f33mr230815vcs.167.1267014000508; Wed, 24 Feb 2010 04:20:00 -0800 (PST)
In-Reply-To: <764372c81002240255o69c3d841x74f1262d59a40323@mail.gmail.com>
References: <764372c81002240255o69c3d841x74f1262d59a40323@mail.gmail.com>
Date: Wed, 24 Feb 2010 17:50:00 +0530
Message-ID: <181ec4871002240420w126cbf27ke7d2662662b982e2@mail.gmail.com>
Subject: Re: need information about AnjliOldLipi License
From: "kevin & siji" <kevinsiji@gmail.com>
To: =?UTF-8?B?4KSq4KWN4KSW4KSL4KSSjOJCKuOCkvUCkPOCkquClgeCkpoCHlw==?= <pravin.d.s@gmail.com>
2010/2/24 =E0=A4=AA=E0=A5=8D=E0=A4=B0=E0=A4=BF=E0=A4=BE=E0=A4=A4=E0=A4=AA=E0=A5=81=E0=A4=AE=E0=A5=87 <pravin.d.s@gmail.com>

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so
## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.$(STATIC_O)
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.$(STATIC_O)
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```
## Dependency rules

%.d: $(srctdir)/%.c
@echo "generating dependency information for $<"
$(SHELL) -ec "$(GEN_DEPS.c) $< \\
| sed \'^s/($*)\.o[:]*/\1.o $@ : /g$^ > $@;\ \\
[ -s $@ ] || rm -f $@' \\

%.d: $(srctdir)/%.cpp
@echo "generating dependency information for $<"
$(SHELL) -ec "$(GEN_DEPS.cc) $< \\
| sed \'^s/($*)\.o[:]*/\1.o $@ : /g$^ > $@;\ \\
[ -s $@ ] || rm -f $@' \\

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@ \\

%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

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- * /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-jar/com/espertech/esper/event/arr/ObjectArrayEventBeanPropertyWriter.java
- * /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-jar/com/espertech/esper/epl/expression/ExprNodeUtilMethodDesc.java
- * /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-jar/com/espertech/esper/core/service/StatementAgentInstanceFilterVersion.java
- * /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-jar/com/espertech/esper/dataflow/annotations/OutputType.java
- * /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-jar/com/espertech/esper/core/context/stmt/AIRegistryPriorMultiPerm.java
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jar/com/espertech/esper/schedule/ScheduleVisitor.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/epl/expression/SubselectEvalStrategy.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/epl/annotation/EPLAnnotationInvocationHandler.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/client/annotation/ExternalDWSverting.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/epl/datetime/reformatop/ReformatOpCalendarEval.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/client/dataflow/EPDataFlowOperatorProviderContext.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/core/context/mgr/ContextControllerConditionFilter.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/client/soda/ContainedEventSelect.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/epl/rowregex/RegexPartitionStateRepoGroup.java
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* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
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jar/com/espertech/esper/epl/join/exec/composite/CompositeAccessStrategyGT.java
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jar/com/espertech/esper/epl/enummethod/eval/EnumEvalUnion.java
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* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
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jar/com/espertech/esper/elptj/join/exec/composite/CompositeIndexLookup.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/elptj/join/exec/composite/CompositeIndexLookupKeyed.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/elptj/rowregex/RegexPartitionStateRepo.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/elptj/dataflow/LogicalChannelBindingTypeUnwind.java
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jar/com/espertech/esper/elptj/core/DataFlowConfigurationStateService.java
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jar/com/espertech/esper/eval/EvalInsertWildcardSSWrapperRevision.java
jar/com/espertech/esper/event/art/ObjectArrayEventBeanArrayIndexedElementPropertyGetter.java
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jar/com/espertech/esper/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1.jar/com/espertech/esper/eval/EnumEvalBaseScalar.java
jar/com/espertech/esper/core/context/stmt/StatementAIResourceRegistryFactory.java
jar/com/espertech/esper/client/deploy/DeploymentNotFoundException.java
jar/com/espertech/esper/epl/agg/access/AggregationStateKey.java
jar/com/espertech/esper/core/deploy/ParseNodeImport.java
jar/com/espertech/esper/core/context/mgr/ContextControllerConditionImmediate.java
jar/com/espertech/esper/epl/agg/service/AggregationValidationContext.java
jar/com/espertech/esper/epl/agg/service/AggregationStateFactory.java
jar/com/espertech/esper/epl/datetime/eval/DatetimeLongCoercerCal.java
jar/com/espertech/esper/core/context/factory/StatementAgentInstancePostLoadSelect.java
jar/com/espertech/esper/view/ViewFactoryProxy.java
jar/com/espertech/esper/client/hook/VirtualDataWindowFactory.java
jar/com/espertech/esper/epl/agg/service/AggregationStateFactory.java

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jar/com/espertech/esper/epl/expression/ExprEvaluatorProxy.java
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jar/com/espertech/esper/epl/expression/ExprDotMethodEvalNoDuck.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/event/arr/ObjectArrayArrayPOJOEntryIndexedPropertyGetter.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/client/annotation/ExternalDWListener.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/epl/enummethod/eval/ExprDotEvalWhere.java
* /opt/cola/permits/1136651838_1613848748.5/0/esper-4-10-0-sources-1-
jar/com/espertech/esper/core/deploy/ParseNode.java

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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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END OF TERMS AND CONDITIONS

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ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
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<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
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   b) use the modified Package only within your corporation or organization.

   c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

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a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

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The End

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We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with
We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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   a) The modified work must itself be a software library.

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.
This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
"Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/EvaluationContext.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/Projection.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/FunctionReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/common/TemplateParserContext.java
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  jar/org/springframework/expression/TypeConverter.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/support/ReflectiveMethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/Selection.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/MethodResolver.java
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  jar/org/springframework/expression/ExpressionInvocationTargetException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/ast/IntLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/support/ReflectivePropertyAccessor.java
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  jar/org/springframework/expression/spel/support/ReflectiveMethodResolver.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/spel/support/StandardTypeConverter.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/ConstructorResolver.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/TypedValue.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
  jar/org/springframework/expression/ConstructorResolver.java
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 * /opt/cola/permits/1136652293_1613848641.2/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/SpelParserConfiguration.java
 * /opt/cola/permits/1136652293_1613848641.2/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/EvaluationException.java
 * /opt/cola/permits/1136652293_1613848641.2/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OperatorMatches.java
 * /opt/cola/permits/1136652293_1613848641.2/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/NullLiteral.java
 * /opt/cola/permits/1136652293_1613848641.2/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/TypeReference.java
 * /opt/cola/permits/1136652293_1613848641.2/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OpEQ.java
 * /opt/cola/permits/1136652293_1613848641.2/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/standard/TokenKind.java
 * /opt/cola/permits/1136652293_1613848641.2/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/TypeCode.java
 * /opt/cola/permits/1136652293_1613848641.2/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/MethodFilter.java
 * /opt/cola/permits/1136652293_1613848641.2/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/PropertyAccessor.java
 * /opt/cola/permits/1136652293_1613848641.2/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/OpLE.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/ExpressionException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/RealLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/QualifiedIdentifier.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/Assign.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OpLT.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/support[BooleanTypedValue.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/standard/SpelExpressionParser.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OpDivide.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OperatorNot.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/expression/AccessException.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/expression/ExpressionParser.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/standard/Tokenizer.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ExpressionState.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/standard/SpelExpression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OpNE.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/common/CompositeStringExpression.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/standard/Token.java
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* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/Expression/TypeLocator.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/MethodExecutor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-jar/org/springframework/expression/spel/ast/OpModulus.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/ReflectionHelper.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/ConstructorExecutor.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/VariableReference.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/ast/ParseException.java
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jar/org/springframework/expression/spel/SpelNode.java
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jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /opt/cola/permits/1136652293_1613848641.2/0/spring-expression-3-0-7-release-sources-4-
jar/org/springframework/expression/spel/support/StandardTypeLocator.java

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1.1793 zlib 1.2.3

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/* zlib.h -- interface of the 'zlib' general purpose compression library
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1.1801 jboss-as-security 7.3.0.Final-redhat-14

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---
abstract: 'Convert POD data to various other formats'
author:
  - 'Russ Allbery <rra@stanford.edu>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
distribution_type: module
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 6.57_05'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: podlators
no_index:
directory:
  - t
  - inc
requires:
  Encode: 0
  File::Spec: 0.8
  Pod::Simple: 3.06
version: 2.5.1

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvIT/podlators-2.5.1/MYMETA.yml
No license file was found, but licenses were detected in source scan.

#!/usr/bin/perl

# pod2man -- Convert POD data to formatted *roff input.
#
#  Russ Allbery <rra@stanford.edu>
#
# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.
require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Man ();
use Pod::Usage qw(podusage);

use strict;

# Clean up $0 for error reporting.
$0 =~ s%.*/%%;

# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin.
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;

# Parse our options, trying to retain backward compatibility with pod2man but
# allowing short forms as well. --lax is currently ignored.
my %options;
Getopt::Long::config ('bundling_override');
GetOptions (%options, 'center|c=s', 'date|d=s', 'errors=s', 'fixed=s',
    'fixedbold=s', 'fixeditalic=s', 'fixedbolditalic=s', 'help|h',
    'lax|l', 'name|n=s', 'nourls', 'official|o', 'quotes|q=s',
    'release|r:s', 'section|s=s', 'stderr', 'verbose|v', 'utf8|u')
or exit 1;
podusage (0) if $options{help};

# Official sets --center, but don't override things explicitly set.
if ($options{official} && !defined $options{center}) {
    $options{center} = 'Perl Programmers Reference Guide';
}

# Verbose is only our flag, not a Pod::Man flag.
my $verbose = $options{verbose};
delete $options{verbose};

# This isn't a valid Pod::Man option and is only accepted for backward
# compatibility.
delete $options{lax};

# If neither stderr nor errors is set, default to errors = die.
if (!defined $options{stderr} && !defined $options{errors}) {
    $options{errors} = 'die';
}

# Initialize and run the formatter, pulling a pair of input and output off at
# a time. For each file, we check whether the document was completely empty
# and, if so, will remove the created file and exit with a non-zero exit
# status.
my $parser = Pod::Man->new (%options);
my $status = 0;
my @files;
  do {
       @files = splice (@ARGV, 0, 2);
       print "  $files[1]\n" if $verbose;
       $parser->parse_from_file (@files);
       if ($parser->{CONTENTLESS}) {
           $status = 1;
           warn "$0: unable to format $files[0]\n";
           if (defined ($files[1]) and $files[1] ne '-') {
               unlink $files[1] unless (-s $files[1]);
           }
       }
   } while (@ARGV);
exit $status;
__END__

=head1 NAME

pod2man - Convert POD data to formatted *roff input

=head1 SYNOPSIS

pod2man [B<--center>=I<string>] [B<--date>=I<string>] [B<--errors>=I<style>]
   [B<--fixed>=I<font>] [B<--fixedbold>=I<font>] [B<--fixeditalic>=I<font>]
   [B<--fixedbolditalic>=I<font>] [B<--name>=I<name>] [B<--nourls>]
   [B<--official>] [B<--quotes>=I<quotes>] [B<--release>=I<version>]
   [B<--section>=I<manext>] [B<--stderr>] [B<--utf8>] [B<--verbose>]
   [I<input>] [I<output>] ...

pod2man B<--help>

=head1 DESCRIPTION

B<pod2man> is a front-end for Pod::Man, using it to generate *roff input
from POD source. The resulting *roff code is suitable for display on a
terminal using nroff(1), normally via man(1), or printing using troff(1).

I<input> is the file to read for POD source (the POD can be embedded in
code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if
given, is the file to which to write the formatted output. If I<output>
isn't given, the formatted output is written to C<STDOUT>.

Several POD files can be processed in the same B<pod2man> invocation (saving module load and compile times) by providing multiple pairs of I<input> and I<output> files on the command line.

B<--section>, B<--release>, B<--center>, B<--date>, and B<--official> can be used to set the headers and footers to use; if not given, Pod::Man will assume various defaults. See below or L<Pod::Man> for details.

B<pod2man> assumes that your *roff formatters have a fixed-width font named C<CW>. If yours is called something else (like C<CR>), use B<--fixed> to specify it. This generally only matters for troff output for printing. Similarly, you can set the fonts used for bold, italic, and bold italic fixed-width output.

Besides the obvious pod conversions, Pod::Man, and therefore pod2man also takes care of formatting func(), func(n), and simple variable references like $foo or @bar so you don't have to use code escapes for them; complex expressions like C<$fred->{'stuff'}> will still need to be escaped, though. It also translates dashes that aren't used as hyphens into en dashes, makes long dashes--like this--into proper em dashes, fixes "paired quotes," and takes care of several other troff-specific tweaks. See L<Pod::Man> for complete information.

=head1 OPTIONS

=over

=item B<-c> I<string>, B<--center>=I<string>

Sets the centered page header to I<string>. The default is "User Contributed Perl Documentation", but also see B<--official> below.

=item B<-d> I<string>, B<--date>=I<string>

Set the left-hand footer string to this value. By default, the modification date of the input file will be used, or the current date if input comes from C<STDIN>.

=item B<-errors>=I<style>

Set the error handling style. C<die> says to throw an exception on any POD formatting error. C<stderr> says to report errors on standard error, but not to throw an exception. C<pod> says to include a POD ERRORS section in the resulting documentation summarizing the errors. C<none> ignores POD errors entirely, as much as possible.

The default is C<die>. 
The fixed-width font to use for verbatim text and code. Defaults to C\texttt{CW}. Some systems may want C\texttt{CR} instead. Only matters for troff(1) output.

Bold version of the fixed-width font. Defaults to C\texttt{CB}. Only matters for troff(1) output.

Italic version of the fixed-width font (actually, something of a misnomer, since most fixed-width fonts only have an oblique version, not an italic version). Defaults to C\texttt{CI}. Only matters for troff(1) output.

Bold italic (probably actually oblique) version of the fixed-width font. Pod::Man doesn't assume you have this, and defaults to C\texttt{CB}. Some systems (such as Solaris) have this font available as C\texttt{CX}. Only matters for troff(1) output.

Print out usage information.

No longer used. B\texttt{pod2man} used to check its input for validity as a manual page, but this should now be done by L\texttt{podchecker(1)} instead. Accepted for backward compatibility; this option no longer does anything.

Set the name of the manual page to I\texttt{name}. Without this option, the manual name is set to the uppercased base name of the file being converted unless the manual section is 3, in which case the path is parsed to see if it is a Perl module path. If it is, a path like C\texttt{.../lib/Pod/Man.pm} is converted into a name like C\texttt{Pod::Man}. This option, if given, overrides any automatic determination of the name.

Note that this option is probably not useful when converting multiple POD files at once. The convention for Unix man pages for commands is for the man page title to be in all-uppercase even if the command isn't.
Normally, LZ<::> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL. In other words:

L.<foo|http://example.com/>

is formatted as:

foo <http://example.com/>

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just C<foo>. This can produce less cluttered output in cases where the URLs are not particularly important.

Set the default header to indicate that this page is part of the standard Perl release, if B<--center> is not also given.

Sets the quote marks used to surround CE<lt>> text to I<quotes>. If I<quotes> is a single character, it is used as both the left and right quote; if I<quotes> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quotes> is four characters, the first two are used as the left quote and the second two as the right quote.

I<quotes> may also be set to the special value C<none>, in which case no quote marks are added around CE<lt>> text (but the font is still changed for troff output).

Set the centered footer. By default, this is the version of Perl you run B<pod2man> under. Note that some system an macro sets assume that the centered footer will be a modification date and will prepend something like "Last modified: "; if this is the case, you may want to set B<--release> to the last modified date and B<--date> to the version number.

Set the section for the C<.TH> macro. The standard section numbering convention is to use 1 for user commands, 2 for system calls, 3 for functions, 4 for devices, 5 for file formats, 6 for games, 7 for miscellaneous information, and 8 for administrator commands. There is a lot of variation here, however; some systems (like Solaris) use 4 for file
formats, 5 for miscellaneous information, and 7 for devices. Still others use 1m instead of 8, or some mix of both. About the only section numbers that are reliably consistent are 1, 2, and 3.

By default, section 1 will be used unless the file ends in C<.pm>, in which case section 3 will be selected.

=item B<--stderr>

By default, B<pod2man> dies if any errors are detected in the POD input. If B<--stderr> is given and no B<--errors> flag is present, errors are sent to standard error, but B<pod2man> does not abort. This is equivalent to C<--errors=stderr> and is supported for backward compatibility.

=item B<-u>, B<--utf8>

By default, B<pod2man> produces the most conservative possible *roff output to try to ensure that it will work with as many different *roff implementations as possible. Many *roff implementations cannot handle non-ASCII characters, so this means all non-ASCII characters are converted either to a *roff escape sequence that tries to create a properly accented character (at least for troff output) or to C<X>.

This option says to instead output literal UTF-8 characters. If your *roff implementation can handle it, this is the best output format to use and avoids corruption of documents containing non-ASCII characters. However, be warned that *roff source with literal UTF-8 characters is not supported by many implementations and may even result in segfaults and other bad behavior.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an C<encoding> command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See L<perlpod(1)> for more information on the C<encoding> command.

=item B<-v>, B<--verbose>

Print out the name of each output file as it is being generated.

=back

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a C<POD ERRORS> section generated with C<--errors=pod>), B<pod2man> will exit with status 0. If any of the documents being processed do not result in an output document, B<pod2man>
will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of C<die>, B<pod2man> will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If B<pod2man> fails with errors, see L<Pod::Man> and L<Pod::Simple> for information about what those errors might mean.

=head1 EXAMPLES

    pod2man program > program.1
    pod2man SomeModule.pm /usr/perl/man/man3/SomeModule.3
    pod2man --section=7 note.pod > note.7

If you would like to print out a lot of man page continuously, you probably want to set the C and D registers to set contiguous page numbering and even/odd paging, at least on some versions of man(7).

    troff -man -rC1 -rD1 perl.1 perldata.1 perlsyn.1 ...

To get index entries on C<STDERR>, turn on the F register, as in:

    troff -man -rF1 perl.1

The indexing merely outputs messages via C<.tm> for each major page, section, subsection, item, and any C<XE<lt>E<gt>> directives. See L<Pod::Man> for more details.

=head1 BUGS

Lots of this documentation is duplicated from L<Pod::Man>.

=head1 SEE ALSO

L<Pod::Man>, L<Pod::Simple>, L<man(1)>, L<nroff(1)>, L<perlpod(1)>, L<podchecker(1)>, L<perlpodstyle(1)>, L<troff(1)>, L<man(7)>

The man page documenting the an macro set may be L<man(5)> instead of L<man(7)> on your system.

The current version of this script is always available from its web site at L<http://www.eyrie.org/~eagle/software/podlators/>. It is also part of the Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, based I<very> heavily on the original
**COPYRIGHT AND LICENSE**


This program is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

```
#!perl
# pod2text -- Convert POD data to formatted ASCII text.
#
#    Russ Allbery <rra@stanford.edu>
```
# This program is free software; you may redistribute it and/or modify it
# under the same terms as Perl itself.
#
# The driver script for Pod::Text, Pod::Text::Termcap, and Pod::Text::Color,
# invoked by perldoc -t among other things.

require 5.004;

use Getopt::Long qw(GetOptions);
use Pod::Text ();
use Pod::Usage qw(pod2usage);

use strict;

# Clean up $0 for error reporting.
$0 =~ s%.*/%%;

# Take an initial pass through our options, looking for one of the form
# -<number>. We turn that into -w <number> for compatibility with the
# original pod2text script.
for (my $i = 0; $i < @ARGV; $i++) {
    last if $ARGV[$i] =~ /^--$/;
    if ($ARGV[$i] =~ /^-(\d+)$/)
        splice (@ARGV, $i++, 1, '-w', $1);
    }

# Insert -- into @ARGV before any single dash argument to hide it from
# Getopt::Long; we want to interpret it as meaning stdin (which Pod::Simple
# does correctly).
my $stdin;
@ARGV = map { $_ eq '-' && !$stdin++ ? ('--', $_) : $_ } @ARGV;

# Parse our options. Use the same names as Pod::Text for simplicity, and
# default to sentence boundaries turned off for compatibility.
my %options;
$options{sentence} = 0;
Getopt::Long::config ('bundling');
GetOptions (\%options, 'alt[a]', 'code', 'color[c]', 'errors=s', 'help[h]',
              'indent[l]=i', 'loose[l]', 'margin[l]=left-margin|m=i', 'nourls',
              'overstrike[o]', 'quotes[q]=s', 'sentence[s]', 'stderr', 'termcap[t]',
              'utf8[u]', 'width[w]=i')
or exit 1;
pod2usage (1) if $options{help};

# Figure out what formatter we're going to use. -c overrides -t.
my $formatter = 'Pod::Text';
if ($options{color}) {
    $formatter = 'Pod::Text::Color';
    eval { require Term::ANSIColor };  
    if ($@) { die "--color requires Term::ANSIColor to be installed\n" }  
    require Pod::Text::Color;
} elsif ($options{termcap}) {
    $formatter = 'Pod::Text::Termcap';
    require Pod::Text::Termcap;
} elsif ($options{overstrike}) {
    $formatter = 'Pod::Text::Overstrike';
    require Pod::Text::Overstrike;
}
delete @options{'color', 'termcap', 'overstrike'};

# If neither stderr nor errors is set, default to errors = die.
if (!defined $options{stderr} && !defined $options{errors}) {
    $options{errors} = 'die';
}

# Initialize and run the formatter.
my $parser = $formatter->new (%options);
my $status = 0;
do {
    my ($input, $output) = splice (@ARGV, 0, 2);
    $parser->parse_from_file ($input, $output);
    if ($parser->{CONTENTLESS}) {
        $status = 1;
        warn "$0: unable to format $input\n";
        if (defined ($output) and $output ne '-') {
            unlink $output unless (-s $output);
        }
    }
} while (@ARGV);
exit $status;

__END__

=for stopwords
-aclostu --alt --stderr Allbery --overstrike overstrike --termcap --utf8
UTF-8 subclasses --nourls

=head1 NAME

pod2text - Convert POD data to formatted ASCII text

=head1 SYNOPSIS

pod2text [B<-aclostu>] [B<-code> ] [B<-errors>=I<style> ] [B<-i> I<indent> ]
pod2text B<-h>

=head1 DESCRIPTION

B<pod2text> is a front-end for Pod::Text and its subclasses. It uses them to generate formatted ASCII text from POD source. It can optionally use either termcap sequences or ANSI color escape sequences to format the text.

I<input> is the file to read for POD source (the POD can be embedded in code). If I<input> isn't given, it defaults to C<STDIN>. I<output>, if given, is the file to which to write the formatted output. If I<output> isn't given, the formatted output is written to C<STDOUT>. Several POD files can be processed in the same B<pod2text> invocation (saving module load and compile times) by providing multiple pairs of I<input> and I<output> files on the command line.

=head1 OPTIONS

=over 4

=item B<-a>, B<--alt>

Use an alternate output format that, among other things, uses a different heading style and marks C<item> entries with a colon in the left margin.

=item B<--code>

Include any non-POD text from the input file in the output as well. Useful for viewing code documented with POD blocks with the POD rendered and the code left intact.

=item B<-c>, B<--color>

Format the output with ANSI color escape sequences. Using this option requires that Term::ANSIColor be installed on your system.

=item B<-i> I<indent>, B<--indent=>I<indent>

Set the number of spaces to indent regular text, and the default indentation for C<over> blocks. Defaults to 4 spaces if this option isn't given.

=item B<-errors>=I<style>

Set the error handling style. C<die> says to throw an exception on any POD formatting error. C<stderr> says to report errors on standard error,
but not to throw an exception. \texttt{<pod>} says to include a POD ERRORS section in the resulting documentation summarizing the errors. \texttt{<none>} ignores POD errors entirely, as much as possible.

The default is \texttt{<die>}. 

\begin{itemize}
  \item \texttt{-h}, \texttt{--help}
  \end{itemize}

Print out usage information and exit.

\begin{itemize}
  \item \texttt{-l}, \texttt{--loose}
  \end{itemize}

Print a blank line after a \texttt{<head1>} heading. Normally, no blank line is printed after \texttt{<head1>}, although one is still printed after \texttt{<head2>}, because this is the expected formatting for manual pages; if you're formatting arbitrary text documents, using this option is recommended.

\begin{itemize}
  \item \texttt{-m} \texttt{I<width>}, \texttt{--left-margin=I<width>}, \texttt{--margin=I<width>}
  \end{itemize}

The width of the left margin in spaces. Defaults to 0. This is the margin for all text, including headings, not the amount by which regular text is indented; for the latter, see \texttt{<i>} option.

\begin{itemize}
  \item \texttt{--nourls}
  \end{itemize}

Normally, LZ<><> formatting codes with a URL but anchor text are formatted to show both the anchor text and the URL. In other words:

\begin{verbatim}
L<foo|http://example.com/>
\end{verbatim}

is formatted as:

\begin{verbatim}
foo <http://example.com/>
\end{verbatim}

This flag, if given, suppresses the URL when anchor text is given, so this example would be formatted as just \texttt{<foo>}. This can produce less cluttered output in cases where the URLs are not particularly important.

\begin{itemize}
  \item \texttt{-o}, \texttt{--overstrike}
  \end{itemize}

Format the output with overstrike printing. Bold text is rendered as character, backspace, character. Italics and file names are rendered as underscore, backspace, character. Many pagers, such as \texttt{<less>}, know how to convert this to bold or underlined text.

\begin{itemize}
  \item \texttt{-q} \texttt{I<quotes>}, \texttt{--quotes=I<quotes>}
  \end{itemize}

Sets the quote marks used to surround CE<lt>> text to I<quotes>. If
I<quotes> is a single character, it is used as both the left and right quote; if I<quotes> is two characters, the first character is used as the left quote and the second as the right quoted; and if I<quotes> is four characters, the first two are used as the left quote and the second two as the right quote.

I<quotes> may also be set to the special value C<none>, in which case no quote marks are added around CE<lt>> text.

=item B<-s>, B<--sentence>

Assume each sentence ends with two spaces and try to preserve that spacing. Without this option, all consecutive whitespace in non-verbatim paragraphs is compressed into a single space.

=item B<--stderr>

By default, B<pod2text> dies if any errors are detected in the POD input. If B<--stderr> is given and no B<--errors> flag is present, errors are sent to standard error, but B<pod2text> does not abort. This is equivalent to C<--errors=stderr> and is supported for backward compatibility.

=item B<-t>, B<--termcap>

Try to determine the width of the screen and the bold and underline sequences for the terminal from termcap, and use that information in formatting the output. Output will be wrapped at two columns less than the width of your terminal device. Using this option requires that your system have a termcap file somewhere where Term::Cap can find it and requires that your system support termios. With this option, the output of B<pod2text> will contain terminal control sequences for your current terminal type.

=item B<-u>, B<--utf8>

By default, B<pod2text> tries to use the same output encoding as its input encoding (to be backward-compatible with older versions). This option says to instead force the output encoding to UTF-8.

Be aware that, when using this option, the input encoding of your POD source must be properly declared unless it is US-ASCII or Latin-1. POD input without an C<encoding> command will be assumed to be in Latin-1, and if it's actually in UTF-8, the output will be double-encoded. See L<perlpod(1)> for more information on the C<encoding> command.

=item B<-w>, B<--width=>I<width>, B<->I<width>

The column at which to wrap text on the right-hand side. Defaults to 76,
unless B\langle t\rangle is given, in which case it's two columns less than the width of your terminal device.

=head1 EXIT STATUS

As long as all documents processed result in some output, even if that output includes errata (a C\langle POD ERRORS\rangle section generated with C\langle--errors=pod\rangle), B<pod2text> will exit with status 0. If any of the documents being processed do not result in an output document, B<pod2text> will exit with status 1. If there are syntax errors in a POD document being processed and the error handling style is set to the default of C\langle die\rangle, B<pod2text> will abort immediately with exit status 255.

=head1 DIAGNOSTICS

If B<pod2text> fails with errors, see L\langle Pod::Text\rangle and L\langle Pod::Simple\rangle for information about what those errors might mean. Internally, it can also produce the following diagnostics:

=over 4

=item -c (\--color) requires Term::ANSIColor be installed

(F) B\langle c\rangle or B\langle--color\rangle were given, but Term::ANSIColor could not be loaded.

=item Unknown option: %s

(F) An unknown command line option was given.

=back

In addition, other L\langle Getopt::Long\rangle error messages may result from invalid command-line options.

=head1 ENVIRONMENT

=over 4

=item COLUMNS

If B\langle t\rangle is given, B<pod2text> will take the current width of your screen from this environment variable, if available. It overrides terminal width information in TERMCAP.

=item TERMCAP
If $B_{-t}$ is given, $B_{pod2text}$ will use the contents of this environment variable if available to determine the correct formatting sequences for your current terminal device.

=back

=head1 SEE ALSO

L<Pod::Text>, L<Pod::Text::Color>, L<Pod::Text::Overstrike>,
L<Pod::Text::Termcap>, L<Pod::Simple>, L<pod2text(1)>

The current version of this script is always available from its web site at L<http://www.eyrie.org/~eagle/software/podlators/>. It is also part of the Perl core distribution as of 5.6.0.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>.

=head1 COPYRIGHT AND LICENSE


This program is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvlT/podlators-2.5.1/scripts/pod2text
No license file was found, but licenses were detected in source scan.

# This program is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvlT/podlators-2.5.1/lib/Pod/Man.pm
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvlT/podlators-2.5.1/lib/Pod/t/pod.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvlT/podlators-2.5.1/lib/Pod/basic.t
* /opt/cola/permits/1135855328_1613616260.69/0/perl-podlators-2.5.1-3.el7-1.src.rpm-cosi-expand-archive-PVaS66fg/podlators-2.5.1.tar.gz-cosi-expand-archive-yPRwWvlT/podlators-2.5.1/lib/Pod/t/filehandle.t
No license file was found, but licenses were detected in source scan.

=head1 NAME

perlpodstyle - Perl POD style guide

=head1 DESCRIPTION

These are general guidelines for how to write POD documentation for Perl scripts and modules, based on general guidelines for writing good UNIX man pages. All of these guidelines are, of course, optional, but following
them will make your documentation more consistent with other documentation on the system.

The name of the program being documented is conventionally written in bold (using `<b>` wherever it occurs, as are all program options. Arguments should be written in italics (`<i>`). Function names are traditionally written in italics; if you write a function as `function()`, Pod::Man will take care of this for you. Literal code or commands should be in `<code>`...`</code>`. References to other man pages should be in the form `<manpage(section)>` or `<manpage(section)>manual(page)`, and Pod::Man will automatically format those appropriately. The second form, with `<manpage(section)>manual(page)`, is used to request that a POD formatter make a link to the manual page if possible. As an exception, one normally omits the section when referring to module documentation since it's not clear what section module documentation will be in; use `<manual(module):Name>manual(page)>` for module references instead.

References to other programs or functions are normally in the form of man page references so that cross-referencing tools can provide the user with links and the like. It's possible to overdo this, though, so be careful not to clutter your documentation with too much markup. References to other programs that are not given as man page references should be enclosed in `<code>`...`</code>`.

The major headers should be set out using a `<head1>` directive, and are historically written in the rather startling ALL UPPER CASE format; this is not mandatory, but it's strongly recommended so that sections have consistent naming across different software packages. Minor headers may be included using `<head2>`, and are typically in mixed case.

The standard sections of a manual page are:

=over 4

=item NAME

Mandatory section; should be a comma-separated list of programs or functions documented by this POD page, such as:

foo, bar - programs to do something

Manual page indexers are often extremely picky about the format of this section, so don't put anything in it except this line. Every program or function documented by this POD page should be listed, separated by a comma and a space. For a Perl module, just give the module name. A single dash, and only a single dash, should separate the list of programs or functions from the description. Do not use any markup such as `<code>`...`</code>` or `<pre>`...`</pre>` anywhere in this line. Functions should not be
qualified with C<() or the like. The description should ideally fit on a
single line, even if a man program replaces the dash with a few tabs.

=item SYNOPSIS

A short usage summary for programs and functions. This section is
mandatory for section 3 pages. For Perl module documentation, it’s
usually convenient to have the contents of this section be a verbatim
block showing some (brief) examples of typical ways the module is used.

=item DESCRIPTION

Extended description and discussion of the program or functions, or the
body of the documentation for man pages that document something else. If
particularly long, it’s a good idea to break this up into subsections
C<==head2> directives like:

=head2 Normal Usage

=head2 Advanced Features

=head2 Writing Configuration Files

or whatever is appropriate for your documentation.

For a module, this is generally where the documentation of the interfaces
provided by the module goes, usually in the form of a list with an
C<item> for each interface. Depending on how many interfaces there are,
you may want to put that documentation in separate METHODS, FUNCTIONS,
CLASS METHODS, or INSTANCE METHODS sections instead and save the
DESCRIPTION section for an overview.

=item OPTIONS

Detailed description of each of the command-line options taken by the
program. This should be separate from the description for the use of
parsers like L<Pod::Usage>. This is normally presented as a list, with
each option as a separate C<item>. The specific option string should be
enclosed in BE<lt>E<gt>. Any values that the option takes should be
enclosed in IE<lt>E<gt>. For example, the section for the option
B<--section>=I<manext> would be introduced with:

=item B<--section>=I<manext>

Synonymous options (like both the short and long forms) are separated by a
comma and a space on the same C<item> line, or optionally listed as their
own item with a reference to the canonical name. For example, since
B<--section> can also be written as B<-s>, the above would be:
Writing the short option first is recommended because it's easier to read. The long option is long enough to draw the eye to it anyway and the short option can otherwise get lost in visual noise.

**RETURN VALUE**

What the program or function returns, if successful. This section can be omitted for programs whose precise exit codes aren't important, provided they return 0 on success and non-zero on failure as is standard. It should always be present for functions. For modules, it may be useful to summarize return values from the module interface here, or it may be more useful to discuss return values separately in the documentation of each function or method the module provides.

**ERRORS**

Exceptions, error return codes, exit statuses, and errno settings. Typically used for function or module documentation; program documentation uses DIAGNOSTICS instead. The general rule of thumb is that errors printed to C<STDOUT> or C<STDERR> and intended for the end user are documented in DIAGNOSTICS while errors passed internal to the calling program and intended for other programmers are documented in ERRORS. When documenting a function that sets errno, a full list of the possible errno values should be given here.

**DIAGNOSTICS**

All possible messages the program can print out and what they mean. You may wish to follow the same documentation style as the Perl documentation; see perldiag(1) for more details (and look at the POD source as well).

If applicable, please include details on what the user should do to correct the error; documenting an error as indicating "the input buffer is too small" without telling the user how to increase the size of the input buffer (or at least telling them that it isn't possible) aren't very useful.

**EXAMPLES**

Give some example uses of the program or function. Don't skimp; users often find this the most useful part of the documentation. The examples are generally given as verbatim paragraphs.

Don't just present an example without explaining what it does. Adding a short paragraph saying what the example will do can increase the value of
the example immensely.

=item ENVIRONMENT

Environment variables that the program cares about, normally presented as a list using C<=over>, C<=item>, and C<=back>. For example:

=over 6

=item HOME

Used to determine the user's home directory. F<.foorc> in this directory is read for configuration details, if it exists.

=back

Since environment variables are normally in all uppercase, no additional special formatting is generally needed; they're glaring enough as it is.

=item FILES

All files used by the program or function, normally presented as a list, and what it uses them for. File names should be enclosed in FE<lt>E<gt>. It's particularly important to document files that will be potentially modified.

=item CAVEATS

Things to take special care with, sometimes called WARNINGS.

=item BUGS

Things that are broken or just don't work quite right.

=item RESTRICTIONS

Bugs you don't plan to fix. :-) 

=item NOTES

Miscellaneous commentary.

=item AUTHOR

Who wrote it (use AUTHORS for multiple people). It's a good idea to include your current e-mail address (or some e-mail address to which bug reports should be sent) or some other contact information so that users have a way of contacting you. Remember that program documentation tends
to roam the wild for far longer than you expect and pick a contact method that's likely to last.

=item HISTORY

Programs derived from other sources sometimes have this. Some people keep a modification log here, but that usually gets long and is normally better maintained in a separate file.

=item COPYRIGHT AND LICENSE

For copyright

Copyright YEAR(s) YOUR NAME(s)

(No, (C) is not needed. No, "all rights reserved" is not needed.)

For licensing the easiest way is to use the same licensing as Perl itself:

This library is free software; you may redistribute it and/or modify it under the same terms as Perl itself.

This makes it easy for people to use your module with Perl. Note that this licensing example is neither an endorsement or a requirement, you are of course free to choose any licensing.

=item SEE ALSO

Other man pages to check out, like man(1), man(7), makewhatis(8), or catman(8). Normally a simple list of man pages separated by commas, or a paragraph giving the name of a reference work. Man page references, if they use the standard C<name(section)> form, don't have to be enclosed in LE<lt>E<gt> (although it's recommended), but other things in this section probably should be when appropriate.

If the package has a mailing list, include a URL or subscription instructions here.

If the package has a web site, include a URL here.

=back

Documentation of object-oriented libraries or modules may want to use CONSTRUCTORS and METHODS sections, or CLASS METHODS and INSTANCE METHODS sections, for detailed documentation of the parts of the library and save the DESCRIPTION section for an overview. Large modules with a function interface may want to use FUNCTIONS for similar reasons. Some people use OVERVIEW to summarize the description if it's quite long.
Section ordering varies, although NAME must always be the first section (you'll break some man page systems otherwise), and NAME, SYNOPSIS, DESCRIPTION, and OPTIONS generally always occur first and in that order if present. In general, SEE ALSO, AUTHOR, and similar material should be left for last. Some systems also move WARNINGS and NOTES to last. The order given above should be reasonable for most purposes.

Some systems use CONFORMING TO to note conformance to relevant standards and MT-LEVEL to note safeness for use in threaded programs or signal handlers. These headings are primarily useful when documenting parts of a C library.

Finally, as a general note, try not to use an excessive amount of markup. As documented here and in L<man::Pod>, you can safely leave Perl variables, function names, man page references, and the like unadorned by markup and the POD translators will figure it out for you. This makes it much easier to later edit the documentation. Note that many existing translators will do the wrong thing with e-mail addresses when wrapped in L<lt>E<gt>, so don't do that.

=head1 SEE ALSO

For additional information that may be more accurate for your specific system, see either L<man(5)> or L<man(7)> depending on your system manual section numbering conventions.

This documentation is maintained as part of the podlators distribution. The current version is always available from its web site at <http://www.eyrie.org/~eagle/software/podlators/>.

=head1 AUTHOR

Russ Allbery <rra@stanford.edu>, with large portions of this documentation taken from the documentation of the original B<pod2man> implementation by Larry Wall and Tom Christiansen.

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=cut

Found in path(s):
1.1803 xdg-user-dirs 0.15-5.el7

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.1808 libpurple 2.10.11-8.el7
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Pidgin, Finch, and libpurple

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Version 2.1, February 1999

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<p>
Class, field, and method level annotations for describing thread-safety policies.
</p>

<p>
Three class-level annotations describe the <em>intended</em> thread-safety promises of a class:
<code>@Immutable</code>, <code>@ThreadSafe</code>, and <code>@NotThreadSafe</code>.<br/>
<code>@Immutable</code> means that the class is immutable, and implies <code>@ThreadSafe</code>.<br/>
<code>@NotThreadSafe</code> is optional; if a class is not annotated as thread-safe, it should be presumed not to be thread-safe, but if you want to make it extra clear, use <code>@NotThreadSafe</code>.<br/>
</p>

<p>
These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated
by the annotation, such as verifying that a class annotated with
<code>@Immutable</code> actually is immutable.

<p></p>

<h2>Field and method annotations</h2>

<p>The class-level annotations above are part of the public documentation
for the class. Other aspects of a class's thread-safety strategy are
totally for maintainers and are not part of its public documentation.
</p>

<p>Classes that use locking should document which state variables are
protected with which locks, and which locks are used to guard those
variables. A common source of inadvertent non-thread-safety is when a
thread-safe class consistently uses locking to guard its state, but is
later modified to add either new state variables that are not
adequately guarded by locking, or new methods that do not use locking
properly to guard the existing state variables. Documenting which
variables are guarded by which locks can help prevent both types of
omissions.
</p>

<p>The <code>@GuardedBy(lock)</code> annotation documents that a field or method should
be accessed only with a specific lock held.
</p>

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* /opt/cola/permits/1132217729_1613127079.67/0/jcip-annotations-1-0-redhat-6-sources-jar/net/jcip/annotations/NotThreadSafe.java
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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
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uts/common/gssapi/include/gssapi_err_generic.h
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
and the initial implementation of incremental propagation, including
the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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1.1818 weld-spi 2.4.SP2

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Version 3, 29 June 2007

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Ty Coon, President of Vice

That's all there is to it!

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to attach them to the start of each source file to most effectively
state the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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notice like this when it starts in an interactive mode:

<program>  Copyright (C) <year>  <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".
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XZ Utils Licensing

Different licenses apply to different files in this package. Here is a rough summary of which licenses apply to which parts of this package (but check the individual files to be sure!):

- `liblzma` is in the public domain.

- `xz`, `xzdec`, and `lzmadec` command line tools are in the public domain unless GNU `getopt_long` had to be compiled and linked in from the `lib` directory. The `getopt_long` code is under GNU LGPLv2.1+.

- The scripts to `grep`, `diff`, and `view` compressed files have been adapted from `gzip`. These scripts and their documentation are under GNU GPLv2+.

- All the documentation in the `doc` directory and most of the XZ Utils specific documentation files in other directories are in the public domain.

- Translated messages are in the public domain.

- The build system contains public domain files, and files that are under GNU GPLv2+ or GNU GPLv3+. None of these files end up in the binaries being built.

- Test files and test code in the `tests` directory, and debugging utilities in the `debug` directory are in the public domain.

- The extra directory may contain public domain files, and files that are under various free software licenses.

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take the previous sentence as a license grant. If you still find the lack of copyright legally problematic, you have too many lawyers.

As usual, this software is provided "as is", without any warranty.

If you copy significant amounts of public domain code from XZ Utils into your project, acknowledging this somewhere in your software is polite (especially if it is proprietary, non-free software), but naturally it is not legally required. Here is an example of a good notice to put into "about box" or into documentation:

   This software includes code from XZ Utils <http://tukaani.org/xz/>.

The following license texts are included in the following files:
- COPYING.LGPLv2.1: GNU Lesser General Public License version 2.1
- COPYING.GPLv2: GNU General Public License version 2
- COPYING.GPLv3: GNU General Public License version 3

Note that the toolchain (compiler, linker etc.) may add some code pieces that are copyrighted. Thus, it is possible that e.g. liblzma binary wouldn't actually be in the public domain in its entirety even though it contains no copyrighted code from the XZ Utils source package.

If you have questions, don't hesitate to ask the author(s) for more information.

1.1826 jomolhari-fonts 0.003-17.el7

1.1826.1 Available under license:

No license file was found, but licenses were detected in source scan.

License: OFL

Found in path(s):
* /opt/cola/permits/1000619291_1611883575.6/0/jomolhari-fonts-0.003-17.el7-1.src.rpm-cosi-expand-archive-PcYGtsvZ/jomolhari-fonts.spec

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OFL FAQ - Frequently Asked Questions about the SIL Open Font License (OFL)
Version 1.0 - 22 November 2005
(See http://scripts.sil.org/OFL for updates)

1 ABOUT USING AND DISTRIBUTING FONTS LICENSED UNDER THE OFL
1.1 Can I use the fonts in any publication, even embedded in the file? Yes. You may use them like most other fonts, but unlike some fonts you may include an embedded subset of the fonts in your document. Such use does not require you to include this license or other files (listed in OFL condition 2), nor does it require any type of acknowledgement within the publication. Some mention of the font name within the publication information (such as in a colophon) is usually appreciated. If you wish to include the complete font as a separate file, you should distribute the full font package, including all existing acknowledgements, and comply with the OFL conditions. Of course, referencing or embedding an OFL font in any document does not change the license of the document itself. The resulting document is not a derivative anymore than a compiled program is a derivative of a compiler. Similarly, creating a graphic using an OFL font does not make the resulting artwork subject to the OFL.

1.2 Can I make web pages using these fonts? Yes! Go ahead! Using CSS (Cascading Style Sheets) is recommended.

1.3 Can I make the fonts available to others from my web site? Yes, as long as you meet the conditions for use (include the necessary files, don't abuse the Author(s)' names, rename Modified Versions, do not sublicense and do not sell by itself).

1.4 Can the fonts be included with free and open source software distributions (such as GNU/Linux and BSD distributions)? Yes! The OFL is compatible with most FLOSS (Free/Libre and Open Source Software) licenses. You can also repackage the fonts and the accompanying components in a .rpm or .deb package and include them in distro CD/DVDs and online repositories.

1.5 I want to distribute the fonts with my program. Does this mean my program also has to be free and open source software? No. Only the portions based on the font software are required to be released under the OFL. The intent of the license is to allow aggregation or bundling also with software under restricted licensing.

1.6 Can I include the fonts on a CD of freeware or commercial fonts? Yes, as long some other font or software is also on the disk, so the OFL font is not sold by itself.

1.7 Can I sell a software package that includes these fonts? Yes, you can do this with both the Standard Version and a Modified Version. Examples of bundling made possible by the OFL would include: word processors, design and publishing applications, training and educational software, edutainment software, etc.

1.8 Why won't the OFL let me sell the fonts alone? The intent is to keep people from making money by simply redistributing the fonts. The only people who ought to profit directly from the fonts should be the original authors, and those authors have kindly given up potential income to distribute their fonts under the OFL. Please honor and respect their contribution!

1.9 I've come across a font released under the OFL. How can I easily get more information about the Standard Version? How can I know where it stands compared to the Standard Version or other Modified Versions? Consult the copyright statement in the license for how to contact the original authors. Consult the FONTLOG for information on if and how the font differs from the Standard Version, and get in touch with the various contributors via the information in the acknowledgment section. Please consider using the Standard Versions of the fonts whenever possible.
1.10 What do you mean in condition 4? Can you provide examples of abusive promotion / endorsement / advertisement vs. normal acknowledgement?

The intent is that the goodwill and reputation of the authors should not be used in a way that makes it sound like the original authors endorse or approve of a specific Modified Version or software bundle. For example, it would not be right to advertise a word processor by naming the authors in a listing of software features, or to promote a Modified Version on a web site by saying "designed by...". However, it would be appropriate to acknowledge the authors if your software package has a list of people who deserve thanks. We realize that this can seem to be a gray area, but the standard used to judge an acknowledgement is that if the acknowledgement benefits the authors it is allowed, but if it primarily benefits other parties, or could reflect poorly on the authors, then it is not.

2 ABOUT MODIFYING OFL LICENSED FONTS

2.1 Can I change the fonts? Are there any limitations to what things I can and cannot change?
You are allowed to change anything, as long as such changes do not violate the terms of the license. In other words, you could not remove the copyright statement from the font, but you could add additional information into it that covers your contribution.

2.2 I have a font that needs a few extra glyphs - can I take them from an OFL licensed font and copy them into mine?
Yes, but if you distribute that font to others it must be under the OFL, and include the information mentioned in condition 2 of the license.

2.3 Can I charge people for my additional work? In other words, if I add a bunch of special glyphs and/or OpenType/Graphite code, can I sell the enhanced font?
Not by itself. Derivative fonts must be released under the OFL and cannot be sold by themselves. It is permitted, however, to include them in a larger software package (such as text editors, office suites or operating systems), even if the larger package is sold. In that case, you are strongly encouraged, but not required, to also make that derived font easily and freely available outside of the larger package.

2.4 Can I pay someone to enhance the fonts for my use and distribution?
Yes. This is a good way to fund the further development of the fonts. Keep in mind, however, that if the font is distributed to others it must be under the OFL. You won't be able to recover your investment by exclusively selling the font, but you will be making a valuable contribution to the community. Please remember how you have benefitted from the contributions of others.

2.5 I need to make substantial revisions to the font to make it work with my program. It will be a lot of work, and a big investment, and I want to be sure that it can only be distributed with my program. Can I restrict its use?
No. If you redistribute a Modified Version of the font it must be under the OFL. You may not restrict it in any way. This is intended to ensure that all released improvements to the fonts become available to everyone. But you will likely get an edge over competitors by being the first to distribute a bundle with the enhancements. Again, please remember how you have benefitted from the contributions of others.

2.6 Do I have to make any derivative fonts (including source code, build scripts, documentation, etc.) publicly available?
No, but please do share your improvements with others. You may find that you receive more than what you gave in return.
2.7 Why can't I use the Reserved Font Name(s) in my derivative font names? I'd like people to know where the design came from.

The best way to acknowledge the source of the design is to thank the original authors and any other contributors in the files that are distributed with your revised font (although no acknowledgement is required). The FONTLOG is a natural place to do this. Reserved Font Name(s) ensure that the only fonts that have the original names are the unmodified Standard Versions. This eliminates potential confusion and name conflicts. When choosing a name be creative and try to avoid names that sound like the original. Keep in mind that the copyright holder can allow a specific trusted partner to use Reserved Font Name(s) through a separate written agreement.

2.8 What do you mean by "references stored in the Font Software"? Do I have to delete every reference to the Reserved Font Name(s) from inside every file I modify?

No, not every reference. It would be fine, for example, to keep a text reference to the original fonts in your modified source code, as long as no one could be confused that your modified source is the original. But you cannot use the Reserved Font Names in any way to identify the font to the user (unless the Copyright Holder allows it through a separate agreement, see section 2.7). Users who install derivatives ("Modified Versions") on their systems should not see any of the original names ("Reserved Font Names") in their font menus, font properties dialogs, PostScript streams, documents that refer to a particular font name, etc. Again, this is to ensure that users are not confused and do not mistake a font for another and so expect features only another derivative or the Standard Version can actually offer. Ultimately, creating name conflicts will cause many problems for the users as well as for the designer of both the Standard and derivative versions, so please think ahead and find a good name for your own derivative. Font substitution systems like fontconfig, OpenOffice.org or Scribus will also get very confused if the name of the font they are configured to substitute to actually refers to another physical font on the user's hard drive. It will help everyone if Standard and derivative fonts can easily be distinguished from one another, and from other derivatives.

2.9 What is this FONTLOG thing exactly?

It has three purposes: 1) to provide basic information on the font to users and other developers, 2) to document changes that have been made to the font or accompanying files, either by the original authors or others, and 3) to provide a place to acknowledge the authors and other contributors. Please use it! See below for details on how changes should be noted.

2.10 Am I required to update the FONTLOG?

No, but users, designers and other developers might get very frustrated at you if you don't! People need to know how derivative fonts differ from the originals, and how to take advantage of the changes, or build on them.

3 ABOUT THE FONTLOG

The FONTLOG can take a variety of formats, but should include these four sections:

3.1 FONTLOG for <FontFamilyName>

This file provides detailed information on the <FontFamilyName> font software. This information should be distributed along with the <FontFamilyName> fonts and any derivative works.

3.2 Basic Font Information

(Here is where you would describe the purpose and brief specifications for the font project, and where users can find more detailed documentation. It can also include references to how changes can be contributed back to the Standard Version. You may also wish to include a short guide to the design, or a reference to such a document.)
3.3 ChangeLog
(This should list both major and minor changes, most recent first. Here are some examples:)

1 Feb 2005 (Jane Doe) <NewFontFamilyName> Version 1.1
- Improved build script performance and verbosity
- Extended the smart code documentation
- Corrected minor typos in the documentation
- Fixed position of combining inverted breve below (U+032F)
- Added OpenType/Graphite smart code for Armenian
- Added Armenian glyphs (U+0531 -> U+0587)
- Released as "<NewFontFamilyName>"

1 Jan 2005 (Joe Smith) <FontFamilyName> Version 1.0
- Initial release of font "<FontFamilyName>"

3.4 Acknowledgements
(Here is where contributors can be acknowledged. If you make modifications be sure to add your name (N), email (E), web-address (W) and description (D). This list is sorted by last name in alphabetical order.)

N: Jane Doe
E: jane@university.edu
W: http://art.university.edu/projects/fonts
D: Contributor - Armenian glyphs and code

N: Fred Foobar
E: fred@foobar.org
W: http://foobar.org
D: Contributor - misc Graphite fixes

N: Pat Johnson
E: pat@fontstudio.org
W: http://pat.fontstudio.org
D: Designer - Greek & Cyrillic glyphs based on Roman design

N: Tom Parker
E: tom@company.com
W: http://www.company.com/tom/projects/fonts
D: Engineer - original smart font code

N: Joe Smith
E: joe@fontstudio.org
W: http://joe.fontstudio.org
D: Designer - original Roman glyphs

(Original authors can also include information here about their organization.)
4 ABOUT MAKING CONTRIBUTIONS

4.1 Why should I contribute my changes back to the original authors?
It would benefit many people if you contributed back to what you've received. Providing your contributions and improvements to the fonts and other components (data files, source code, build scripts, documentation, etc.) could be a tremendous help and would encourage others to contribute as well and 'give back', which means you will have an opportunity to benefit from other people's contributions as well. Sometimes maintaining your own separate version takes more effort than merging back with the original. Be aware that any contributions, however, must be either your own original creation or work that you own, and you may be asked to affirm that when you contribute.

4.2 I've made some very nice improvements to the font, will you consider adopting them and putting them into future Standard Versions?
Most authors would be very happy to receive such contributions. Keep in mind that it is unlikely that they would want to incorporate major changes that would require additional work on their end. Any contributions would likely need to be made for all the fonts in a family and match the overall design and style. Authors are encouraged to include a guide to the design with the fonts. It would also help to have contributions submitted as patches or clearly marked changes (the use of a centralized or distributed source revision control system like subversion or arch is a good idea). Examples of useful contributions are bug fixes, additional glyphs, stylistic alternates (and the smart font code to access them).

4.3 How can I financially support the development of OFL fonts?
It is likely that most authors of OFL fonts would accept financial contributions - contact them for instructions on how to do this. Such contributions would support future development. You can also pay for others to enhance the fonts and contribute the results back to the original authors for inclusion in the Standard Versions.

5 ABOUT THE LICENSE

5.1 I see that this is version 1.0 of the license. Will there be later changes?
We hope that version 1.0 will meet most needs, but are open to future improvements. Any revisions would be for future font releases, and previously existing licenses would remain in effect. No retroactive changes are possible, although the Copyright Holder can re-release the font under a revised OFL. All versions will be available on our web site: http://scripts.sil.org/OFL.

5.2 Can I use the SIL Open Font License for my own fonts?
Yes! We heartily encourage anyone to use the OFL to distribute their own original fonts. It is a carefully constructed license that allows great freedom with some protection for the original authors and clear rules for other contributors. Some additional information is included at the end of this FAQ.

5.3 Does this license restrict the rights of the Copyright Holder?
No. The Copyright Holder still retains all rights to their creation; they are only releasing a portion of it for use in a specific way. For example, the Copyright Holder may choose to release a 'basic' version of their font under the OFL, but sell a restricted 'enhanced' version. Only the Copyright Holder can do this.

5.4 Is the OFL a contract or a license?
The OFL is a license and not a contract and so does not require you to sign it to have legal validity. By using, modifying and redistributing components under the OFL you indicate that you accept the license.
6 ABOUT SIL INTERNATIONAL

6.1 Who is SIL International and what does it do?
SIL International is a worldwide faith-based education and development organization (NGO) that studies, documents, and assists in developing the world's lesser-known languages through literacy, linguistics, translation, and other academic disciplines. SIL makes its services available to all without regard to religious belief, political ideology, gender, race, or ethnic background. SIL's members and volunteers share a Christian commitment.

6.2 What does this have to do with font licensing?
The ability to read, write, type and publish in one's own language is one of the most critical needs for millions of people around the world. This requires fonts that are widely available and support lesser-known languages. SIL develops - and encourages others to develop - a complete stack of writing systems implementation components available under open licenses. This open stack includes input methods, smart fonts, smart rendering libraries and smart applications. There has been a need for a common open license that is specifically applicable to fonts and related software (a crucial component of this stack) so SIL developed the SIL Open Font License.

6.3 How can I contact SIL?
Our main web site is: http://www.sil.org/
Our site about complex scripts is: http://scripts.sil.org/
Information about this license (including contact email information) is at: http://scripts.sil.org/OFL

7 ABOUT USING THE OFL FOR YOUR ORIGINAL FONTS

If you want to release your fonts under the OFL, you only need to do the following:

7.1 Put your copyright and reserved names information in the beginning of the main OFL file.
7.2 Put your copyright and the OFL references in your various font files (such as in TrueType name, description and license fields) and in your other components (build scripts, glyph databases, documentation, keyboard, samples, etc).
7.3 Write an initial FONTLOG for your font and include it in the release package.
7.4 Include the OFL in your release package.
7.5 We also highly recommend you include the relevant practical documentation on the license by putting the OFL-FAQ in your package.

That's all. If you have any more questions please get in touch with us.

Found in path(s):
* /opt/cola/permits/1000619291_1611883575.6/0/jomolhari-fonts-0.003-17.el7-1.src.rpm-cosi-expand-archive-PcYGtsvZ/jomolhari-alpha003c.zip-cosi-expand-archive-zbpPzmSu/OFL-FAQ.txt
No license file was found, but licenses were detected in source scan.

FONTLOG
Gentium font family
================================
This file provides detailed information on the Jomolhari of font. This information should be distributed along with the Jomolhari font and any derivative works.

Basic Font Information
----------------------
"Jomolhari" is a Reserved Font Name for this Font Software. This Font Software is licensed under the SIL Open Font License, Version 1.0.

Jomolhari is a Tibetan script OpenType / Unicode typeface designed to print Tibetan & Dzongkha Text. It was designed and implemented by Christopher Fynn based on examples of traditional Bhutanese calligraphy.

The Jomolhari font also supports Part A of the PRC encoding for pre-composed Tibetan script.

ChangeLog
--------
(This should list both major and minor changes, most recent first.)

2005-05-31 (Chris Fynn) alpha version 0.003c
- changed licensing to the SIL Open Font License
- included VOLT project files
- added some missing substitution lookups
- corrected some glyph names
- fixed encoding of precomposed glyphs F638 to F63F

Acknowledgements
----------------
(Here is where contributors can be acknowledged. If you make modifications be sure to add your name (N), email (E), web-address (W) and description (D). This list is sorted by last name in alphabetical order.)

N: Christopher Fynn
E:
W: http://www.btinternet.com/~c.fynn/
D: Original Designer and Developer of Jomolhari font.

Found in path(s):
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.1835 shared-mime-info 1.8 5.el7

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1.1839 flite 1.3-22.el7
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src/regex/regexp.c
src/regex/regexp.c

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lang/usenglish/us_durz_cart.h
lang/usenglish/us_int_accent_cart.c
lang/usenglish/us_int_accent_cart.h
lang/usenglish/us_int_tone_cart.c
lang/usenglish/us_int_tone_cart.h
lang/usenglish/us_phoneset.c
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configure.sub
config.guess
missing
install-sh
mkeinstalldirs

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palm/include/peal.h
palm/include/pealstub.h
palm/arm_flite/pealstub.c
palm/m68k_flite/peal.c

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**********/

The whole Sun Microsystems math library was ported to Palm
for this but its not actually needed, though the include file is
to allow bits of the system to compile that currently linked in
to the system, so we just have the include file here

palm/include/fdlibm.h

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1.1840 mina 2.0.16

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1.1841 swagger-jaxrs 1.3.0
1.1841.1 Available under license:
No license file was found, but licenses were detected in source scan.

```scala
package com.wordnik.swagger.jaxrs.config

import com.wordnik.swagger.annotations.Api
import com.wordnik.swagger.core.{SwaggerContext, SwaggerSpec}
import com.wordnik.swagger.model.ApiInfo
import com.wordnik.swagger.jaxrs.reader.DefaultJaxrsApiReader
import com.wordnik.swagger.config._
import com.wordnik.swagger.reader._

import org.reflections.Reflections
import org.reflections.scanners.{SubTypesScanner, TypeAnnotationsScanner}
import org.reflections.util.{ClasspathHelper, ConfigurationBuilder}
import org.slf4j.LoggerFactory
import javax.servlet.ServletConfig
import javax.ws.rs.core.Application
import scala.collection.JavaConverters._
import scala.reflect.BeanProperty

class BeanConfig extends JaxrsScanner {
  private val LOGGER = LoggerFactory.getLogger(classOf[BeanConfig])

  ConfigFactory.config = new SwaggerConfig
  ClassReaders.reader = Some(new DefaultJaxrsApiReader)

  @BeanProperty var resourcePackage: String = _
  @BeanProperty var title: String = _
  @BeanProperty var description: String = _
  @BeanProperty var termsOfServiceUrl: String = _
  @BeanProperty var contact: String = _
  @BeanProperty var license: String = _
  @BeanProperty var licenseUrl: String = _

  def setScan(shouldScan: Boolean) = {
    if (title != null || description != null || termsOfServiceUrl != null || contact != null || license != null || licenseUrl != null) {
      ConfigFactory.config.info = Some(ApiInfo(title, description, termsOfServiceUrl, contact, license, licenseUrl))
    }
  }
```

---

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 60947
ScannerFactory.scanner = Some(this)

def getScan() = true

def classesFromContext(app: Application, sc: ServletConfig) : List[Class[_]] = {
  val config = new ConfigurationBuilder().setUrls(ClasspathHelper.forPackage(resourcePackage)).setScanners(
    new TypeAnnotationsScanner(), new SubTypesScanner())
  new Reflections(config).getTypesAnnotatedWith(classOf[Api]).asScala.toList
}

def setApiReader(reader: String) = {
  try{
    val cls = SwaggerContext.loadClass(reader).newInstance.asInstanceOf[ClassReader]
    ClassReaders.reader = Some(cls)
  } catch {
    case e: Exception => LOGGER.error("failed to load reader class %s".format(reader))
  }
}

def getApiReader(): String = ClassReaders.reader match {
  case Some(cls) => cls.getClass.getName
  case _ => ""
}

def getVersion(): String = ConfigFactory.config.apiVersion

def setBasePath(basePath: String) = ConfigFactory.config.basePath = basePath
def getBasePath(): String = ConfigFactory.config.basePath

Found in path(s):
* /opt/cola/permits/1158798462_1619840403.71/0/swagger-jaxrs-2-10-1-3-0-sources-jar/com/wordnik/swagger/jaxrs/config/BeanConfig.scala

1.1842 vim 7.4.629-8.el7_9
1.1842.1 Available under license:

*uganda.txt* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar
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http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

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=== end of license ===

Note:

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- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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==============================================================================
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil
wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been
co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children’s Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html
World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:


The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

- Postbank, account 4548774
  Swift code: INGB NL 2A
  IBAN: NL95 INGB 0004 5487 74
  under the name "stichting ICCF Holland", Lisse
  If that doesn't work:
    Rabobank Lisse, account 3765.05.117
  Swift code: RABO NL 2U
  under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
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1.1843 websocket-common 9.2.19.v20160908

1.1844 jboss 3.2.3
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1.1850 icu 50.2 4.el7_7
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<
%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
1.1851 jersey 2.30.1

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* https://github.com/eclipse-ee4j/jersey

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.1856 xcb-util-keysyms 0.4.0-1.el7
1.1856.1 Available under license :

No license file was found, but licenses were detected in source scan.

# ===========================================================================
# http://autoconf-archive.cryp.to/ax_compare_version.html
# ===========================================================================
#
# SYNOPSIS
#
# AX_COMPARE_VERSION(VERSION_A, OP, VERSION_B, [ACTION-IF-TRUE], [ACTION-IF-FALSE])
#
# DESCRIPTION
#
# This macro compares two version strings. Due to the various number of
# minor-version numbers that can exist, and the fact that string
# comparisons are not compatible with numeric comparisons, this is not
# necessarily trivial to do in a autoconf script. This macro makes doing
# these comparisons easy.
#
# The six basic comparisons are available, as well as checking equality
# limited to a certain number of minor-version levels.
#
# The operator OP determines what type of comparison to do, and can be one
# of:
#
# eq - equal (test A == B)
# ne - not equal (test A != B)
# le - less than or equal (test A <= B)
# ge - greater than or equal (test A >= B)
# lt - less than (test A < B)
# gt - greater than (test A > B)
#
# Additionally, the eq and ne operator can have a number after it to limit
# the test to that number of minor versions.
#
# eq0 - equal up to the length of the shorter version
# ne0 - not equal up to the length of the shorter version
eqN - equal up to N sub-version levels
neN - not equal up to N sub-version levels

When the condition is true, shell commands ACTION-IF-TRUE are run, otherwise shell commands ACTION-IF-FALSE are run. The environment variable 'ax_compare_version' is always set to either 'true' or 'false' as well.

Examples:

AX_COMPARE_VERSION([3.15.7], [lt], [3.15.8])
AX_COMPARE_VERSION([3.15], [lt], [3.15.8])

would both be true.

AX_COMPARE_VERSION([3.15.7], [eq], [3.15.8])
AX_COMPARE_VERSION([3.15], [gt], [3.15.8])

would both be false.

AX_COMPARE_VERSION([3.15.7], [eq2], [3.15.8])

would be true because it is only comparing two minor versions.

AX_COMPARE_VERSION([3.15.7], [eq0], [3.15])

would be true because it is only comparing the lesser number of minor versions of the two values.

Note: The characters that separate the version numbers do not matter. An empty string is the same as version 0. OP is evaluated by autoconf, not configure, so must be a string, not a variable.

The author would like to acknowledge Guido Draheim whose advice about the m4_case and m4_ifvaln functions make this macro only include the portions necessary to perform the specific comparison specified by the OP argument in the final configure script.

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AC_DEFUN([AX_COMPARE_VERSION], [}
AC_PROG_AWK

# Used to indicate true or false condition
ax_compare_version=false

# Convert the two version strings to be compared into a format that
# allows a simple string comparison. The end result is that a version
# string of the form 1.12.5-r617 will be converted to the form
# 0001001200050617. In other words, each number is zero padded to four
# digits, and non digits are removed.
AS_VAR_PUSHDEF([A],[ax_compare_version_A])
A=`echo "$1" | sed -e 's/\([0-9]\)*/Z\1Z/g' \
   -e 's/Z\([0-9]\)Z/Z0\1Z/g' \
   -e 's/Z\([0-9][0-9]\)Z/Z0\1Z/g' \
   -e 's/Z\([0-9][0-9][0-9]\)Z/Z0\1Z/g' \
   -e 's/[^0-9]//g'`

AS_VAR_PUSHDEF([B],[ax_compare_version_B])
B=`echo "$3" | sed -e 's/\([0-9]\)*/Z\1Z/g' \
   -e 's/Z\([0-9]\)Z/Z0\1Z/g' \
   -e 's/Z\([0-9][0-9]\)Z/Z0\1Z/g' \
   -e 's/Z\([0-9][0-9][0-9]\)Z/Z0\1Z/g' \
   -e 's/[^0-9]//g'`

dnl # In the case of le, ge, lt, and gt, the strings are sorted as necessary
dnl # then the first line is used to determine if the condition is true.
dnl # The sed right after the echo is to remove any indented white space.
m4_case(m4_tolower($2),
[lt],
   ax_compare_version=`echo "x$A
xB" | sed 's/^ *//' | sed -r 's/x$A/\false/;s/x$B/true/;1q''`
   ).
[gt],
   ax_compare_version=`echo "x$A
xB" | sed 's/^ *//' | sort | sed "s/x$A/\false/;s/x$B/true/;1q''`
   ).
[le],
   ax_compare_version=`echo "x$A
xB" | sed 's/^ *//' | sort | sed "s/x$A/true/;s/x$B/\false/;1q''`
   ).
[ge],
   ax_compare_version=`echo "x$A
xB" | sed 's/^ *//' | sort -r | sed "s/x$A/\false/;s/x$B/true/;1q''`
   ).
dnl # A count of zero means use the length of the shorter version.
# Determine the number of characters in A and B.
ax_compare_version_len_A=`echo "$A" | $AWK '{print(length)}'`
ax_compare_version_len_B=`echo "$B" | $AWK '{print(length)}'`

# Set A to no more than B's length and B to no more than A's length.
A=`echo "$A" | sed "s/(.{$ax_compare_version_len_B}).*/\1/"
B=`echo "$B" | sed "s/(.{$ax_compare_version_len_A}).*/\1/"

# Pad zeros at end of numbers to make same length.
ax_compare_version_tmp_A="$A`echo $B | sed 's/./0/g'`"
B="$B`echo $A | sed 's/./0/g'`"
A="$ax_compare_version_tmp_A"

# Check for equality or inequality as necessary.
m4_case(m4_tolower(m4_substr($2,0,2)),
[eq],
  test "x$A" = "x$B" && ax_compare_version=true
),
[ne],
  test "x$A" != "x$B" && ax_compare_version=true
),
  AC_WARNING([illegal OP parameter: $2])
])

AS_VAR_POPDEF([A])
AS_VAR_POPDEF([B])

dn # Execute ACTION-IF-TRUE / ACTION-IF-FALSE.
if test "$ax_compare_version" = "true" ; then
  m4_ifvaln([$4],[[$4]],[[$else $5]])
fi
)
)

AX_COMPARE_VERSION

Found in path(s):
* /opt/cola/permits/114832141_1619430820.99/0/xcb-util-keysyms-0.4.0-1.el7-1.src.rpm-cosi-expand-archive-epqQtMyt/xcb-util-keysyms-0.4.0.tar.bz2-cosi-expand-archive-CQsFILph/xcb-util-keysyms-
Name: xcb-util-keysyms
Version: 0.4.0
Release: 1%{_dist}
Summary: Standard X key constants and keycodes conversion on top of libxcb
Group: System Environment/Libraries
License: MIT
URL: http://xcb.freedesktop.org
Source0: http://xcb.freedesktop.org/dist/%{name}.%{version}.tar.bz2
BuildRequires: pkgconfig(xcb-util) >= 0.3.8
BuildRequires: m4

%description
XCB util-keysyms module provides the following library:

- keysyms: Standard X key constants and conversion to/from keycodes.

%package devel
Summary: Development and header files for xcb-util-keysyms
Group: System Environment/Libraries
Requires: %{name}%{_isa} = %{version}-%{release}

%description-devel
Development files for xcb-util-keysyms.

%prep
%setup -q

%build
%configure --with-pic --disable-static --disable-silent-rules
make %{?_smp_mflags}

%check
make check

%install
make install DESTDIR=%{buildroot} INSTALL="install -p"
rm %{buildroot}%{_libdir}/*.la

%post -p /sbin/ldconfig
%postun -p /sbin/ldconfig

%files
%doc README
{%_libdir}/*.so.*

%files devel
%doc NEWS
{%_libdir}/pkgconfig/*.pc
{%_libdir}/*.so
{%_includedir}/xcb/*.h

%changelog
* Sat Oct 11 2014 Thomas Moschny <thomas.moschny@gmx.de> - 0.4.0-1
  - Update to 0.4.0.

* Mon Aug 18 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-5
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_22_Mass_Rebuild

* Sun Jun 08 2014 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_21_Mass_Rebuild

* Sun Aug 04 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-3
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_20_Mass_Rebuild

* Fri Feb 15 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.9-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Mon Aug 20 2012 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.9-1
  - Update to 0.3.9.

* Sun Jul 22 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 0.3.8-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Fri Apr 6 2012 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.8-3
  - Fix explicit requires.

* Tue Mar 13 2012 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.8-2
  - Specfile cleanups suggested in the review.

* Mon Dec 5 2011 Thomas Moschny <thomas.moschny@gmx.de> - 0.3.8-1
  - New package.
Installation Instructions

Basic Installation

Briefly, the shell commands `./configure; make; make install' should configure, build, and install this package. The following more-detailed instructions are generic; see the `README' file for instructions specific to this package. Some packages provide this `INSTALL' file but do not implement all of the features documented below. The lack of an optional feature in a given package is not necessarily a bug. More recommendations for GNU packages can be found in *note Makefile Conventions: (standards)Makefile Conventions.

The `configure' shell script attempts to guess correct values for various system-dependent variables used during compilation. It uses those values to create a `Makefile' in each directory of the package. It may also create one or more `.h' files containing system-dependent definitions. Finally, it creates a shell script `config.status' that you can run in the future to recreate the current configuration, and a file `config.log' containing compiler output (useful mainly for debugging `configure').

It can also use an optional file (typically called `config.cache' and enabled with `--cache-file=config.cache' or simply `-C') that saves the results of its tests to speed up reconfiguring. Caching is disabled by default to prevent problems with accidental use of stale cache files.

If you need to do unusual things to compile the package, please try to figure out how `configure' could check whether to do them, and mail diffs or instructions to the address given in the `README' so they can be considered for the next release. If you are using the cache, and at some point `config.cache' contains results you don't want to keep, you may remove or edit it.

The file `configure.ac' (or `configure.in') is used to create `configure' by a program called `autoconf'. You need `configure.ac' if you want to change it or regenerate `configure' using a newer version of `autoconf'.

The simplest way to compile this package is:

1. `cd' to the directory containing the package's source code and type `./configure' to configure the package for your system.
Running `configure' might take a while. While running, it prints some messages telling which features it is checking for.

2. Type `make' to compile the package.

3. Optionally, type `make check' to run any self-tests that come with the package, generally using the just-built uninstalled binaries.

4. Type `make install' to install the programs and any data files and documentation. When installing into a prefix owned by root, it is recommended that the package be configured and built as a regular user, and only the `make install' phase executed with root privileges.

5. Optionally, type `make installcheck' to repeat any self-tests, but this time using the binaries in their final installed location. This target does not install anything. Running this target as a regular user, particularly if the prior `make install' required root privileges, verifies that the installation completed correctly.

6. You can remove the program binaries and object files from the source code directory by typing `make clean'. To also remove the files that `configure' created (so you can compile the package for a different kind of computer), type `make distclean'. There is also a `make maintainer-clean' target, but that is intended mainly for the package's developers. If you use it, you may have to get all sorts of other programs in order to regenerate files that came with the distribution.

7. Often, you can also type `make uninstall' to remove the installed files again. In practice, not all packages have tested that uninstallation works correctly, even though it is required by the GNU Coding Standards.

8. Some packages, particularly those that use Automake, provide `make distcheck', which can by used by developers to test that all other targets like `make install' and `make uninstall' work correctly. This target is generally not run by end users.

Compilers and Options

Some systems require unusual options for compilation or linking that the `configure' script does not know about. Run `./configure --help' for details on some of the pertinent environment variables.
You can give `configure' initial values for configuration parameters by setting variables in the command line or in the environment. Here is an example:

```
./configure CC=c99 CFLAGS=-g LIBS=-lposix
```

*Note Defining Variables::, for more details.

Compiling For Multiple Architectures
====================================

You can compile the package for more than one kind of computer at the same time, by placing the object files for each architecture in their own directory. To do this, you can use GNU `make'. `cd' to the directory where you want the object files and executables to go and run the `configure' script. `configure' automatically checks for the source code in the directory that `configure' is in and in `..'. This is known as a "VPATH" build.

With a non-GNU `make', it is safer to compile the package for one architecture at a time in the source code directory. After you have installed the package for one architecture, use `make distclean' before reconfiguring for another architecture.

On MacOS X 10.5 and later systems, you can create libraries and executables that work on multiple system types--known as "fat" or "universal" binaries--by specifying multiple `-arch' options to the compiler but only a single `-arch' option to the preprocessor. Like this:

```
./configure CC="gcc -arch i386 -arch x86_64 -arch ppc -arch ppc64" \ 
  CXX="g++ -arch i386 -arch x86_64 -arch ppc -arch ppc64" \ 
  CPP="gcc -E" CXXCPP="g++ -E"
```

This is not guaranteed to produce working output in all cases, you may have to build one architecture at a time and combine the results using the `lipo' tool if you have problems.

Installation Names
==================

By default, `make install' installs the package's commands under `/usr/local/bin', include files under `/usr/local/include', etc. You can specify an installation prefix other than `/usr/local' by giving `configure' the option `--prefix=PREFIX', where PREFIX must be an absolute file name.

You can specify separate installation prefixes for
architecture-specific files and architecture-independent files. If you pass the option `--exec-prefix=PREFIX` to `configure`, the package uses PREFIX as the prefix for installing programs and libraries. Documentation and other data files still use the regular prefix.

In addition, if you use an unusual directory layout you can give options like `--bindir=DIR` to specify different values for particular kinds of files. Run `configure --help` for a list of the directories you can set and what kinds of files go in them. In general, the default for these options is expressed in terms of `${prefix}`, so that specifying just `--prefix` will affect all of the other directory specifications that were not explicitly provided.

The most portable way to affect installation locations is to pass the correct locations to `configure`; however, many packages provide one or both of the following shortcuts of passing variable assignments to the `make install` command line to change installation locations without having to reconfigure or recompile.

The first method involves providing an override variable for each affected directory. For example, `make install prefix=/alternate/directory` will choose an alternate location for all directory configuration variables that were expressed in terms of `${prefix}`. Any directories that were specified during `configure`, but not in terms of `${prefix}`, must each be overridden at install time for the entire installation to be relocated. The approach of makefile variable overrides for each directory variable is required by the GNU Coding Standards, and ideally causes no recompilation. However, some platforms have known limitations with the semantics of shared libraries that end up requiring recompilation when using this method, particularly noticeable in packages that use GNU Libtool.

The second method involves providing the `DESTDIR` variable. For example, `make install DESTDIR=/alternate/directory` will prepend `/alternate/directory` before all installation names. The approach of `DESTDIR` overrides is not required by the GNU Coding Standards, and does not work on platforms that have drive letters. On the other hand, it does better at avoiding recompilation issues, and works well even when some directory options were not specified in terms of `${prefix}` at `configure` time.

Optional Features

If the package supports it, you can cause programs to be installed with an extra prefix or suffix on their names by giving `configure` the option `--program-prefix=PREFIX` or `--program-suffix=SUFFIX`.
Some packages pay attention to `--enable-FEATURE' options to `configure', where FEATURE indicates an optional part of the package. They may also pay attention to `--with-PACKAGE' options, where PACKAGE is something like `gnu-as' or `x' (for the X Window System). The `README' should mention any `--enable-' and `--with-' options that the package recognizes.

For packages that use the X Window System, `configure' can usually find the X include and library files automatically, but if it doesn't, you can use the `configure' options `--x-includes=DIR' and `--x-libraries=DIR' to specify their locations.

Some packages offer the ability to configure how verbose the execution of `make' will be. For these packages, running `./configure --enable-silent-rules' sets the default to minimal output, which can be overridden with `make V=1'; while running `./configure --disable-silent-rules' sets the default to verbose, which can be overridden with `make V=0'.

Particular systems
==================

On HP-UX, the default C compiler is not ANSI C compatible. If GNU CC is not installed, it is recommended to use the following options in order to use an ANSI C compiler:

```
./configure CC="cc -Ae -D_XOPEN_SOURCE=500"
```

and if that doesn't work, install pre-built binaries of GCC for HP-UX.

HP-UX `make' updates targets which have the same time stamps as their prerequisites, which makes it generally unusable when shipped generated files such as `configure' are involved. Use GNU `make' instead.

On OSF/1 a.k.a. Tru64, some versions of the default C compiler cannot parse its `<wchar.h>' header file. The option `-nodtk' can be used as a workaround. If GNU CC is not installed, it is therefore recommended to try

```
./configure CC="cc"
```

and if that doesn't work, try

```
./configure CC="cc -nodtk"
```

On Solaris, don't put `/usr/ucb' early in your `PATH'. This directory contains several dysfunctional programs; working variants of
these programs are available in `/usr/bin'. So, if you need `/usr/ucb' in your `PATH', put it _after_ `/usr/bin'.

On Haiku, software installed for all users goes in `/boot/common', not `/usr/local'. It is recommended to use the following options:

```
./configure --prefix=/boot/common
```

Specifying the System Type
===========================

There may be some features `configure' cannot figure out automatically, but needs to determine by the type of machine the package will run on. Usually, assuming the package is built to be run on the _same_ architectures, `configure' can figure that out, but if it prints a message saying it cannot guess the machine type, give it the `--build=TYPE' option. TYPE can either be a short name for the system type, such as `sun4', or a canonical name which has the form:

```
CPU-COMPANY-SYSTEM
```

where SYSTEM can have one of these forms:

```
OS
KERNEL-OS
```

See the file `config.sub' for the possible values of each field. If `config.sub' isn't included in this package, then this package doesn't need to know the machine type.

If you are _building_ compiler tools for cross-compiling, you should use the option `--target=TYPE' to select the type of system they will produce code for.

If you want to _use_ a cross compiler, that generates code for a platform different from the build platform, you should specify the "host" platform (i.e., that on which the generated programs will eventually be run) with `--host=TYPE'.

Sharing Defaults
================

If you want to set default values for `configure' scripts to share, you can create a site shell script called `config.site' that gives default values for variables like `CC', `cache_file', and `prefix'. `configure' looks for `PREFIX/share/config.site' if it exists, then `PREFIX/etc/config.site' if it exists. Or, you can set the `CONFIG_SITE' environment variable to the location of the site script.
A warning: not all `configure' scripts look for a site script.

Defining Variables
==================

Variables not defined in a site shell script can be set in the
environment passed to `configure'. However, some packages may run
configure again during the build, and the customized values of these
variables may be lost. In order to avoid this problem, you should set
them in the `configure' command line, using `VAR=value'. For example:

    ./configure CC=/usr/local2/bin/gcc

causes the specified `gcc' to be used as the C compiler (unless it is
overridden in the site shell script).

Unfortunately, this technique does not work for `CONFIG_SHELL' due to
an Autoconf bug. Until the bug is fixed you can use this workaround:

    CONFIG_SHELL=/bin/bash /bin/bash ./configure CONFIG_SHELL=/bin/bash

`configure' Invocation
======================

`configure' recognizes the following options to control how it
operates.

`--help'
`-h'
    Print a summary of all of the options to `configure', and exit.

`--help=short'
`--help=recursive'
    Print a summary of the options unique to this package's
    `configure', and exit. The `short' variant lists options used
    only in the top level, while the `recursive' variant lists options
    also present in any nested packages.

`--version'
`-V'
    Print the version of Autoconf used to generate the `configure'
    script, and exit.

`--cache-file=FILE'
    Enable the cache: use and save the results of the tests in FILE,
    traditionally `config.cache'. FILE defaults to `~/dev/null' to
disable caching.
'--config-cache'
'-C'
   Alias for `--cache-file=config.cache'.

'--quiet'
'--silent'
'--q'
   Do not print messages saying which checks are being made. To suppress all normal output, redirect it to `/dev/null' (any error messages will still be shown).

'--srcdir=DIR'
   Look for the package's source code in directory DIR. Usually `configure' can determine that directory automatically.

'--prefix=DIR'
   Use DIR as the installation prefix. *note Installation Names:: for more details, including other options available for fine-tuning the installation locations.

'--no-create'
'--n'
   Run the configure checks, but stop before creating any output files.

'configure' also accepts some other, not widely useful, options. Run 'configure --help' for more details.

Found in path(s):
* /opt/ cola/ permits/11 48332141_1619430820.99/0/ xcb-util-keysyms-0.4.0-1.el7-1.src.rpm-cosi-expand-archive-
epqQtMyt/xcb-util-keysyms-0.4.0.tar.bz2-cosi-expand-archive-CQsFlph/xcb-util-keysyms-0.4.0/INSTALL

1.1857 ironjacamar-core-impl 1.0.15.Final

1.1857.1 Available under license:

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1.1858 zjsonpatch 0.3.0
1.1859 gstreamer1-plugins-ugly-free 1.10.4-3.el7

1.1859.1 Available under license:

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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/catalina/ssi/SSIExternalResolver.java
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jar/org/apache/tomcat/bayeux/BayeuxServlet.java
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jar/org/apache/el/ValueExpressionImpl.java
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jar/org/apache/jasper/compiler/Generator.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-
jar/org/apache/catalina/ssi/SSIFlastmod.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-
jar/org/apache/tomcat/util/http/fileupload/FileItem.java
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jar/org/apache/jasper/compiler/Collector.java
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jar/org/apache/tomcat/util/http/fileupload/FileUploadBase.java
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jar/org/apache/tomcat/util/modeler/modules/MbeansDescriptorsSerSource.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-
jar/org/apache/tomcat/util/http/fileupload/ProgressListener.java
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* slow.
* *
* @param expression
*     The expression to be evaluated
* @param expectedType
*     The expected resulting type
* @param pageContext
*     The page context
* @param functionMap
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* @return The result of the evaluation
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* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/tomcat/util/http/ContentType.java
* /opt/cola/permits/1192071505_1637274318.65/0/jbossweb-7-2-2-final-redhat-1-sources-jar/org/apache/tomcat/jni/File.java
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a ”work that uses the Library” with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ”work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.
In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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   a) The modified work must itself be a software library.

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   d) If a facility in the modified Library refers to a function or a
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      the facility, other than as an argument passed when the facility
      is invoked, then you must make a good faith effort to ensure that,
      in the event an application does not supply such function or
      table, the facility still operates, and performs whatever part of
      its purpose remains meaningful.

      (For example, a function in a library to compute square roots has
      a purpose that is entirely well-defined independent of the
      application. Therefore, Subsection 2d requires that any
      application-supplied function or table used by this function must
      be optional: if the application does not supply it, the square
      root function must still compute square roots.)

   These requirements apply to the modified work as a whole. If
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbic
```
## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.c) $< \n| sed \"s/a\($*\)\.o\[ :\]/\1.o $@ : /g\" > $@; \n[ -s $@ ] \|| rm -f $@"'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec "$(GEN_DEPS.cc) $< \n| sed \"s/a\($*\)\.o\[ :\]/\1.o $@ : /g\" > $@; \n[ -s $@ ] \|| rm -f $@"'

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${<F} ${SO}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup

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* /opt/cola/permits/1192071467_1637274310.04/0/jbosgi-repository-api-2-1-0-final-redhat-1-sources-jar/org/jboss/osgi/repository/spi/AbstractRepositoryCapability.java
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* /opt/cola/permits/1192071467_1637274310.04/0/jbosgi-repository-api-2-1-0-final-redhat-1-sources-jar/org/osgi/service/repository/Repository.java

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* /opt/cola/permits/1192071467_1637274310.04/0/jbosgi-repository-api-2-1-0-final-redhat-1-sources-jar/org/osgi/service/repository/RepositoryContent.java

1.1893 woodstox-core 5.2.1
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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
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It may happen that this requirement contradicts the license
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

root function must still compute square roots.)
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
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Any executables containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.
1.1901 libmspack 0.5-0.7.alpha.el7

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1.1906 system-config-printer 1.4.1-21.el7

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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  b) You must cause the files modified to carry prominent notices
     stating that you changed the files and the date of any change.

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     table of data to be supplied by an application program that uses
     the facility, other than as an argument passed when the facility
     is invoked, then you must make a good faith effort to ensure that,
     in the event an application does not supply such function or
     table, the facility still operates, and performs whatever part of
     its purpose remains meaningful.

     (For example, a function in a library to compute square roots has
     a purpose that is entirely well-defined independent of the
     application. Therefore, Subsection 2d requires that any
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These requirements apply to the modified work as a whole. If
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
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  <modelVersion>4.0.0</modelVersion>
  <groupId>com.github.mifmif</groupId>
  <artifactId>generex</artifactId>
  <version>1.0.2</version>
  <name>Generex</name>
  <url>https://github.com/mifmif/Generex/tree/master</url>
  <description>Generex A Java Library for regex to Strings generation</description>
  <packaging>jar</packaging>
  <licenses>
    <license>
      <name>The Apache Software License, Version 2.0</name>
    </license>
  </licenses>
  <developers>
    <developer>
      <id>mifmif</id>
      <name>MIFRAH Youssef</name>
      <email>mifmif.com@gmail.com</email>
    </developer>
    <developer>
      <id>mkolisnyk</id>
      <name>mkolisnyk</name>
    </developer>
  </developers>
</project>
<testSourceDirectory>src/test/java</testSourceDirectory>

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    <excludes>
      <exclude>**/*.java</exclude>
    </excludes>
  </resource>
  <resource>
    <directory>target/dependency</directory>
    <excludes>
      <exclude>**/*.java</exclude>
    </excludes>
  </resource>
  <resource>
    <directory>src/main/resources</directory>
    <includes>
      <include>**/*.properties</include>
    </includes>
  </resource>
</resources>

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    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-install-plugin</artifactId>
    <version>2.5.2</version>
    <configuration>
      <file>target/${project.artifactId}-${project.version}.jar</file>
      <groupId>${project.groupId}</groupId>
      <artifactId>${project.artifactId}</artifactId>
      <version>${project.version}</version>
      <packaging>maven-plugin</packaging>
    </configuration>
  </plugin>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-compiler-plugin</artifactId>
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      <target>1.5</target>
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  <plugin>
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    <artifactId>maven-jar-plugin</artifactId>
    <version>3.0.2</version>
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<version>2.10.3</version>
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<show>private</show>
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<sourcepath>src/main/java</sourcepath>
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<plugin>
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<artifactId>maven-release-plugin</artifactId>
<configuration>
<tagNameFormat>v@ {project.version}</tagNameFormat>
<preparationGoals>package install:install-file</preparationGoals>
<scmCommentPrefix>#3</scmCommentPrefix>
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<artifactId>maven-deploy-plugin</artifactId>
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<goals>
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<plugin>
<groupId>org.sonatype.plugins</groupId>
<artifactId>nexus-staging-maven-plugin</artifactId>
<version>1.6.3</version>
<executions>
<execution>
<id>default-deploy</id>
<phase>deploy</phase>
<goals>
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</goals>
</execution>
</executions>
<extensions>true</extensions>
<configuration>
<serverId>ossrh</serverId>
<nexusUrl>https://oss.sonatype.org/</nexusUrl>
</configuration>
</plugin>

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<artifactId>maven-pmd-plugin</artifactId>
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<exclude>**/HelpMojo.java</exclude>
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</executions>
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<artifactId>cobertura-maven-plugin</artifactId>
<version>2.6</version>
<configuration>
<haltOnFailure>false</haltOnFailure>
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<artifactId>javancss-maven-plugin</artifactId>
<version>2.0</version>
<configuration>
<encoding>${project.build.sourceEncoding}</encoding>
<ccnLimit>15</ccnLimit>
<ncssLimit>100</ncssLimit>
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<goals>
<goal>check</goal>
</goals>
</execution>
</executions>
</plugin>
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*/

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  * /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/GenerexIterator.java
  * /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/Generex.java
  * /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/Node.java
  * /opt/cola/permits/1000610466_1606952086.17/0/generex-1-0-2-sources-1-jar/com/mifmif/common/regex/Iterable.java

1.1925 string-template 3.2.1

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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;
}
/** A parser used to break up a single template into chunks, text literals
* and attribute expressions.
*/
class TemplateParser extends Parser;
{
protected StringTemplate self;

public void reportError(RecognitionException e) {
    StringTemplateGroup group = self.getGroup();
    if ( group==StringTemplate.defaultGroup ) {
        self.error("template parse error; template context is "+self.getEnclosingInstanceStackString(), e);
    } else {
        self.error("template parse error in group "+self.getGroup().getName()+" line "+self.getGroupFileLine()+"; template context is "+self.getEnclosingInstanceStackString(), e);
    }
}

template[StringTemplate self]
{
    this.self = self;
}
: ( s:LITERAL  {self.addChunk(new StringRef(self,s.getText()));}
null

if (LA(1) != ELSE && LA(1) !=ENDIF) {
    self.addChunk(new NewlineRef(self, nl.getText()));
}

action[self]
)*

; 

action[StringTemplate self]
    : a:ACTION
        |
        
        String indent = ((ChunkToken)a).getIndentation();
        ASTExpr c = self.parseAction(a.getText());
        c.setIndentation(indent);
        self.addChunk(c);
    |
| i:IF

        |
        
        ConditionalExpr c = (ConditionalExpr)self.parseAction(i.getText());
        // create and precompile the subtemplate
        StringTemplate subtemplate =
        new StringTemplate(self.getGroup(), null);
        subtemplate.setEnclosingInstance(self);
        subtemplate.setName(i.getText() + "_subtemplate");
        self.addChunk(c);
    |

    template[subtemplate] {if (c != null) c.setSubtemplate(subtemplate);}

    (   ei:ELSEIF

        |
        
        ASTExpr ec = self.parseAction(ei.getText());
        // create and precompile the subtemplate
        StringTemplate elseifSubtemplate =
        new StringTemplate(self.getGroup(), null);
        elseifSubtemplate.setEnclosingInstance(self);
        elseifSubtemplate.setName(ei.getText() + "_subtemplate");
    )

    template[elseifSubtemplate]

    {if (c != null) c.addElseIfSubtemplate(ec, elseifSubtemplate);}

)*

    ( ELSE

    )


{  
    // create and precompile the subtemplate
    StringTemplate elseSubtemplate =
      new StringTemplate(self.getGroup(), null);
    elseSubtemplate.setEnclosingInstance(self);
    elseSubtemplate.setName("else_subtemplate");
}

template[elseSubtemplate]  
{if ( c!=null ) c.setElseSubtemplate(elseSubtemplate);}
)

ENDIF

|rr:REGION_REF
 |
{  
    // define implicit template and
    // convert <r()> to <region__enclosingTemplate__r()>
    String regionName = rr.getText();
    String mangledRef = null;
    boolean err = false;
    // watch out for <super.r()>; that does NOT def implicit region
    // convert to <super.region__enclosingTemplate__r()>
    if ( regionName.startsWith("super.") ) {
      //System.out.println("super region ref "+regionName);
      String regionRef =
        regionName.substring("super.".length(),regionName.length());
      String templateScope =
        self.getGroup().getUnMangledTemplateName(self.getName());
      StringTemplate scopeST = self.getGroup().lookupTemplate(templateScope);
      if ( scopeST==null ) {
        self.getGroup().error("reference to region within undefined template: "+
        templateScope);
        err=true;
      }
      else {
        mangledRef =
          self.getGroup().getMangledRegionName(templateScope,regionRef);
        mangledRef = "super."+mangledRef;
      }
    }
    else {
      //System.out.println("region ref "+regionName);
    }
StringTemplate regionST =
   self.getGroup().defineImplicitRegionTemplate(self.regionName);
   mangledRef = regionST.getName();

if ( !err ) {
// treat as regular action: mangled template include
   String indent = ((ChunkToken)rr).getIndentation();
   ASTExpr c = self.parseAction(mangledRef+"()" );
   c.setIndentation(indent);
   self.addChunk(c);
}

//rd:REGION_DEF
{
   String combinedNameTemplateStr = rd.getText();
   int indexOfDefSymbol = combinedNameTemplateStr.indexOf("::=");
   if ( indexOfDefSymbol>=1 ) {
      String regionName = combinedNameTemplateStr.substring(0,indexOfDefSymbol);
      String template =
         combinedNameTemplateStr.substring(indexOfDefSymbol+3,
         combinedNameTemplateStr.length());
      StringTemplate regionST =
         self.getGroup().defineRegionTemplate(self,
         regionName,
         template,
         StringTemplate.REGION_EMBEDDED);
      // treat as regular action: mangled template include
      String indent = ((ChunkToken)rd).getIndentation();
      ASTExpr c = self.parseAction(regionST.getName()+"()" );
      c.setIndentation(indent);
      self.addChunk(c);
   } else {
      self.error("embedded region definition screwed up");
   }
}

/** Break up an input text stream into chunks of either plain text
* or template actions in "$$...$$". Treat IF and ENDIF tokens
* specially.
*/
class DefaultTemplateLexer extends Lexer;

options {
   k=7; // see "$endif$"
protected String currentIndent = null;
protected StringTemplate self;

public DefaultTemplateLexer(StringTemplate self, Reader r) {
    this(r);
    this.self = self;
}

public void reportError(RecognitionException e) {
    self.error("...S chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
        LA(i+5)=='$';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
        LA(i+5)=='f'&&LA(i+6)=='$';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
    return LA(i)=='$'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)=='d'&&LA(i+5)=='$';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
    return (LA(i)=='\r'&&LA(i+1)=='\n')||LA(i)=='\n';
}

LITERAL
    :   {LA(1)!='\r'&&LA(1)!='\n'}?
        ( options { generateAmbigWarnings=false; }
            int loopStartIndex=text.length();
            int col=getColumn();
        )
            : '!' '$' // allow escaped delimiter
               | '!' '\ ' // always replace \ with \
               | '\' '~'$' // otherwise ignore escape char
               | ind:INDENT
        
        if ( col==1 && LA(1)=='$' ) {
        


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// store indent in ASTExpr not in a literal
currentIndent=ind.getText();
text.setLength(loopStartIndex); // reset length to wack text
}
else currentIndent=null;
}
| ~(\$'|\r'|\n')
}+
{if (($getText).length()==0) {$setType(Token.SKIP);}} // pure indent?
;

NEWLINE
:('\n')? 'n' {newline(); currentIndent=null;}
;

ACTION
options {
generateAmbigWarnings=false; // SEXPR is ambig with $!..!$
}
{
int startCol = getColumn();
}
: LINE_BREAK {$setType(Token.SKIP);}
// Match escapes not in a string like <unuea5>
{StringBuffer buf = new StringBuffer(); char uc = 'u0000';}
'\!' (uc=ESC_CHAR {buf.append(uc); })+'\!' {$setText(buf.toString()); $setType(LITERAL);}
| \t// Match escapes not in a string like <
ufea5>

| \tCOMMENT {$setType(Token.SKIP);
|   (options {
generateAmbigWarnings=false; // $EXPR$ is ambig with $endif$ etc...
options {
}:
|$\!' "if" ( '!' )* "(" IF_EXPR ")" '!” {$setType(TemplateParser.IF);}
  \t( ‘\n’)? ‘n’! (newline();)? // ignore any newline right after an IF
|$\!' "elseif" ( ’!’)* "(" IF_EXPR ")" ‘!” {$setType(TemplateParser.ELSEIF);}
  \t( ‘\n’)? ‘n’! (newline();)? // ignore any newline right after an IF
| ‘!” else” ‘!” {$setType(TemplateParser.ELSE);}
  \t( ‘\n’)? ‘n’! (newline();)? // ignore any newline right after an ELSE
| ‘!” endif” ‘!” {$setType(TemplateParser.ENDIF);}
  \t( startCol==1)? (‘\n’)? ‘n’! (newline();)? // ignore after ENDIF if on line by itself
|
  // match $@foo()$ => foo
  // match $@foo...$@end$ => foo:==:
  ‘!” @’! (~($’!’)’!’)+
  "(" ‘!” {$setType(TemplateParser.REGION_REF);}
| ‘!”
{$setType(TemplateParser.REGION_DEF);
String t=$getText;
">>>"

protected
IF_EXPR: (ESC
  | (\'\r)? 'u' {newline();}
  | SUBTEMPLATE
  | NESTED_PARENS
  | ~')' )+

protected
ESC_CHAR returns [char uc='\u0000']
:"\n"! {uc = 'n';}
,"\r"! {uc = 'r';}
,"\t"! {uc = 't';}
,"\""! {uc = '"';}
,"\u"! a:HEX! b:HEX! c:HEX! d:HEX!
 {uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16);} :

protected
int startCol = getColumn();
}
    : "$!"
    (options {greedy=false;}
    :('r')? 'n' {newline();}
    .
    )*
    "$" ( {startCol==1}? ('r')? 'n' {newline();} )?
    ;

protected
LINE_BREAK
    : "$\\$" (INDENT)? ('')? '
' {newline();} (INDENT)?
    ;

Found in path(s):
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
jar/org/antlr/stringtemplate/language/template.g
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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
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jar/org/antlr/stringtemplate/language/eval.g
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* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/AttributeRenderer.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/language/NewlineRef.java
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/StringTemplateErrorListener.java
* /opt/cola/permits/1136477616_1613772696.75/0,stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/StringTemplateWriter.java
* /opt/cola/permits/1136477616_1613772696.75/0,stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/StringTemplate.java
* /opt/cola/permits/1136477616_1613772696.75/0,stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/StringTemplateAST.java
* /opt/cola/permits/1136477616_1613772696.75/0,stringtemplate-3-2-1-sources-4-jar/org/antlr/stringtemplate/AutoIndentWriter.java
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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.util.*;
}

/** Match an ST group interface. Just a list of template names with args.
 * Here is a sample interface file:
 * *
 *interface nfa;
 *nfa(states,edges);
 *optional state(name);
 */
class InterfaceParser extends Parser;
```java
options {
    k=3;
}

protected StringTemplateGroupInterface groupI;

public void reportError(RecognitionException e) {
    if (groupI!=null) {
        groupI.error("template group interface parse error", e);
    }
    else {
        System.err.println("template group interface parse error: "+e);
        e.printStackTrace(System.err);
    }
}

groupInterface[StringTemplateGroupInterface groupI]
{this.groupI = groupI;}
:"interface" name:ID {groupI.setName(name.getText());} SEMI
   ( template[groupI ]+ 
   ;

template[StringTemplateGroupInterface groupI]
{
    LinkedHashMap formalArgs = new LinkedHashMap(); // leave blank if no args
    String templateName=null;
}
:(opt:"optional")? name:ID LPAREN (formalArgs=args)? RPAREN SEMI
   {templateName = name.getText();
    groupI.defineTemplate(templateName, formalArgs, opt!=null);
   }
   ;

args returns [LinkedHashMap args=new LinkedHashMap()]
    :a:ID {args.put(a.getText(), new FormalArgument(a.getText()));}
    ( COMMA b:ID {args.put(b.getText(), new FormalArgument(b.getText()));} )* 
    ;

class InterfaceLexer extends Lexer;

    options {
        k=2;
        charVocabulary = \'\u0000..\uFFFF\';
    }
```
ID: (\(a'..'z'|\(A'..'Z'|\_\)) (\(a'..'z'|\(A'..'Z'|0'..'9'|\_\))*)

LPAREN: '('
RPAREN: ')'
COMMA: ','
SEMI: ';'
COLON: ':'

// Single-line comments
SL_COMMENT
:   "//"
   (~('\n'|'\r'))* ('\r')? 'n'?
   {$setType(Token.SKIP); newline();}
;

// Multiple-line comments
ML_COMMENT
:   "/*"
   (options {
      greedy=false;
   })
   ('\r')? 'n' {newline();}
   .
   "*/"
   {$setType(Token.SKIP);}
;

// Whitespace -- ignored
WS
:   (\s|\t|\f|('\r')? 'n' {newline();})*
   {$setType(Token.SKIP);}
;

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header {
  /*
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package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.io.*;

/** Break up an input text stream into chunks of either plain text
 * or template actions in "<...>". Treat IF and ENDIF tokens
 * specially.
 */
class AngleBracketTemplateLexer extends Lexer {

    options {
        importVocab=TemplateParser;
        k=7; // see "<endif>"
        charVocabulary = '\u0001'..'uFFFF';
    }

    {
        protected String currentIndent = null;
        protected StringTemplate self;

        public AngleBracketTemplateLexer(StringTemplate self, Reader r) {
            this(r);
        }
    }
}

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*/
this.self = self;
}

public void reportError(RecognitionException e) {
self.error("<...> chunk lexer error", e);
}

protected boolean upcomingELSE(int i) throws CharStreamException {
return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='l'&&LA(i+3)=='s'&&LA(i+4)=='e'&&
    LA(i+5)==>'';
}

protected boolean upcomingENDIF(int i) throws CharStreamException {
return LA(i)=='<'&&LA(i+1)=='e'&&LA(i+2)=='n'&&LA(i+3)=='d'&&LA(i+4)=='i'&&
    LA(i+5)=='f'&&LA(i+6)==>'';
}

protected boolean upcomingAtEND(int i) throws CharStreamException {
return LA(i)=='<'&&LA(i+1)=='@'&&LA(i+2)=='e'&&LA(i+3)=='n'&&LA(i+4)==>'';
}

protected boolean upcomingNewline(int i) throws CharStreamException {
return (LA(i)==''&&LA(i+1)=='
')||LA(i)=='
';
}

LITERAL
:   {LA(1)!=''&&LA(1)!='
'}?
    ( options { generateAmbigWarnings=false; }
    {
    int loopStartIndex=text.length();
    int col=getColumn();
    }
    : '\'! '<'  // allow escaped delimiter
    | '\'! '>'
    | '\'! '\' // always replace \ with \
    | '\ ~('<'|'>'')' // otherwise ignore escape char
    ind:INDENT
    {
    if ( col==1 && LA(1)=='<' ) {
        // store indent in ASTExpr not in a literal
        currentIndent=ind.getText();
        text.setLength(loopStartIndex); // reset length to wack text
    }
    else currentIndent=null;
    }
    | ~(<'|'\'|'\n')
)+
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protected
IF_EXPR:
( ESC
  \( ('r')? 'n' \{newline(); \}
  | SUBTEMPLATE
  | NESTED_PARENS
  | ~')'
  )+
  ;

protected
ESC_CHAR returns [char uc='\u0000']
":""n"! \{uc = 'n'; \}
ashtra\'! \{uc = 'r'; \}
ashtra\t! \{uc = 't'; \}
ashtra\'! \{uc = 't'; \}
ashtra\"! a:HEX! b:HEX! c:HEX! d:HEX!
\{uc = (char)Integer.parseInt(a.getText()+b.getText()+c.getText()+d.getText(), 16); \}
;

// just used to skip stuff (not part of unicode escape stuff)
protected
ESC : \. ('<'|'>'|'n'|'t'|'"'|'\'|'{'|'}'|'\')
  ;

protected
HEX: '0..'9'|'A..'F'|'a..'f
  ;

protected
SUBTEMPLATE
  : \{ (SUBTEMPLATE|ESC~')'* )'
  ;

protected
NESTED_PARENS
  : \( (options {greedy=false;}:NESTED_PARENS[ESC~'])+ )'
  ;

protected
COMMENT
{
  int startCol = getColumn();
  
  "<!" (options {greedy=false;}:NESTED_PARENS[ESC~'])+
  |
}
protected

    "<!>" (INDENT)? ('\r')? 'n' {newline();} (INDENT)?
    ;

Found in path(s):
* /opt/cola/permits/1136477616_1613772696.75/0/stringtemplate-3-2-1-sources-4-
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*/
package org.antlr.stringtemplate.language;
import org.antlr.stringtemplate.*;
import java.util.*;
}

/** Match a group of template definitions beginning
* with a group name declaration. Templates are enclosed
* in double-quotes or "..." quotes for multi-line templates.
* Template names have arg lists that indicate the cardinality
* of the attribute: present, optional, zero-or-more, one-or-more.
* Here is a sample group file:

```java
group nfa;

// an NFA has edges and states
nfa(states,edges) ::= <<
  digraph NFA {
    rankdir=LR;
    <states; separator="\n">
    <edges; separator="\n">
  }
>>

state(name) ::= "node [shape = circle]; <name>;"
```

*/
class GroupParser extends Parser;

options {
  k=3;
}

protected StringTemplateGroup group;

public void reportError(RecognitionException e) {
  if ( group!=null ) {
    group.error("template group parse error", e);
  } else {
    System.err.println("template group parse error: "+e);
    e.printStackTrace(System.err);
  }
}

group[StringTemplateGroup g] {
  this.group = g;
  :"group" name:ID {g.setName(name.getText());}
  ( COLON s:ID {g.setSuperGroup(s.getText());} )?
  ( "implements" i:ID {g.implementInterface(i.getText());}
    (COMMA i2:ID {g.implementInterface(i2.getText());} )* )
}
template[StringTemplateGroup g]
{
    Map formalArgs = null;
    StringTemplate st = null;
    boolean ignore = false;
    String templateName=null;
    int line = LT(1).getLine();
}

):(AT scope:ID DOT region:ID
{
    templateName=g.getMangledRegionName(scope.getText(),region.getText());
    if ( g.isDefinedInThisGroup(templateName) ) {
        g.error("group "+g.getName()+" line "+line+: redefinition of template region: @"+
         scope.getText()+"."+region.getText());
        st = new StringTemplate(); // create bogus template to fill in
    }
    else {
        boolean err = false;
        // @template.region() ::= "...
        StringTemplate scopeST = g.lookupTemplate(scope.getText());
        if ( scopeST==null ) {
            g.error("group "+g.getName()+" line "+line+: reference to region within undefined template: "+
                scope.getText());
            err=true;
        } else {
            g.error("group "+g.getName()+" line "+line+: template "+scope.getText()+" has no region called "+
                region.getText());
            err=true;
        }
        if ( !scopeST.containsRegionName(region.getText()) ) {
            g.error("group "+g.getName()+" line "+line+: template "+scope.getText()+" has no region called "+
                region.getText());
            err=true;
        }
        if ( err ) {
            st = new StringTemplate();
        }
        else {
            st = g.defineRegionTemplate(scope.getText(),
                region.getText(),
                null,
                StringTemplate.REGION_EXPLICIT);
        }
    }

|name:ID {templateName = name.getText();}
|
if ( g.isDefinedInThisGroup(templateName) )
{
    g.error("redefinition of template: "+templateName);
    st = new StringTemplate(); // create bogus template to fill in
}
else {
    st = g.defineTemplate(templateName, null);
}

{if ( st!=null ) {st.setGroupFileLine(line);}}

LPAREN
    (args[st]|{st.defineEmptyFormalArgumentList();})
RPAREN

DEFINED_TO_BE
(t:STRING {st.setTemplate(t.getText());}
|bt:BIGSTRING {st.setTemplate(bt.getText());})
|
    alias:ID DEFINED_TO_BE target:ID
    {g.defineTemplateAlias(alias.getText(), target.getText());}
;

args[StringTemplate st]
    :arg[st] ( COMMA arg[st] )*
;

arg[StringTemplate st]
{
    StringTemplate defaultValue = null;
}
    :name:ID
    (ASSIGN s:STRING
    {
        defaultValue=new StringTemplate("$_val_$");
        defaultValue.setAttribute("_val_", s.getText());
        defaultValue.defineFormalArgument("_val_");
        defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>");
    })
|ASSIGN bs:ANONYMOUS_TEMPLATE
    {
        defaultValue=new StringTemplate(st.getGroup(), bs.getText());
        defaultValue.setName("<"+st.getName()+"'s arg "+name.getText()+" default value subtemplate>");
    }
)?
    {st.defineFormalArgument(name.getText(), defaultValue);}
;
/*
mapdef[Map mapping=new HashMap()]
{
  Map m=null;
  :
  :name:ID
  DEFINED_TO_BE m=map
  {
    if ( g.getMap(name.getText())!=null ) {
      g.error("redefinition of map: "+name.getText());
    }
    else if ( g.isDefinedInThisGroup(name.getText()) ) {
      g.error("redefinition of template as map: "+name.getText());
    }
    else {
      g.defineMap(name.getText(), m);
    }
  }
  :
}

map returns [Map mapping=new HashMap()]
:
LBRACK mapPairs[mapping] RBRACK
:

mapPairs [Map mapping]
:
keyValuePair[mapping] (COMMA keyValuePair[mapping])* (COMMA defaultValuePair[mapping])?
| defaultValuePair[mapping]
:

defaultValuePair[Map mapping]
{
  StringTemplate v = null;
  :
  :
  :"default" COLON v=keyValue
    {mapping.put(ASTExpr.DEFAULT_MAP_VALUE_NAME, v);}
  :
}

keyValuePair[Map mapping]
{
  StringTemplate v = null;
}
:
  :key:STRING COLON v=keyValue {mapping.put(key.getText(), v);} ;

  keyValue returns [StringTemplate value=null]
  :s1:BIGSTRING{value = new StringTemplate(group.s1.getText());}
  |s2:STRING{value = new StringTemplate(group.s2.getText());}
  |k:ID{k.getText().equals("key")? {value = ASTExpr.MAP_KEY_VALUE;}}
  |
  |
  class GroupLexer extends Lexer;

  options {
    k=2;
    charVocabulary = \ ..\uFFFE';
    testLiterals=false;
  }

  ID
  options {
    testLiterals=true;
  }
  :('a'..'z'|'A'..'Z'|'0'..'9'|'-'|'_')*
  :

  STRING
  :""! ( \W! " " | \W ~"" | ~"" )*""!
  :

  BIGSTRING
  :"<<"!
  (options {greedy=true;}:('\v')?"\n"! {newline();})? // consume 1st \n  (options {greedy=false;}) // stop when you see the >>
  :[LA(3)==>'&&&LA(4)==>']? \v! "\n"! {newline();} // kill last \n
  [\v(2)==>'&&&LA(3)==>']? \n"! {newline();} // kill last \n
  [\v)? \n"! newline();} // else keep

  [\v]! '>' // \> escape
  |
  |
  ANONYMOUS_TEMPLATE
  |
  List args=null;
  StringTemplateToken t = null;
AT: '@' ;
LPAREN: '(' ;
RPAREN: ')' ;
LBRACK: '[' ;
RBRACK: ']' ;
COMMA: ',' ;
DOT: '.' ;
DEFINED_TO_BE: '::=' ;
SEMI: ';' ;
COLON: ':' ;
STAR: '*' ;
PLUS: '+' ;
ASSIGN: '=' ;
OPTIONAL: '?' ;

// Single-line comments
SL_COMMENT
  : "//" (\n| (options {greedy=false;} // stop when you see the >>
    ('\r')? '\n' {newline();} // else keep
    [\r\n! ']') // \} escape
    | .
    )*
    ;

// multiple-line comments
ML_COMMENT
  : "/*
    (\n| (options {
      greedy=false;
    } // keep
    ('\r')? '\n' {newline();}
    | .
    )*
    "*/")
    {$setType(Token.SKIP);}
    ;

// Whitespace -- ignored
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1.1926 dyninst 9.3.1-3.el7

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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with the Library, with the complete machine-readable "work that
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  dr-xr-xr-x 2 0 0 [LSN 23] 2048 Oct 22 2004 02:21:14 ..
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  -r-xr-xr-x 1 0 0 [LSN 27] 0 Mar 05 2005 15:26:00 Copy2
  -r--r--r-- 1 0 0 [LSN 27] 17992 Mar 05 2005 15:25:51 COPYING
  -r--r--r-- 1 0 0 [LSN 36] 0 Mar 05 2005 15:32:05 fd0
  dr-xr-xr-x 2 0 0 [LSN 25] 2048 Mar 05 2005 16:12:25 tmp
  cr--r--r-- 1 0 0 [LSN 36] 0 Mar 05 2005 15:31:42 zero

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  -r-xr-xr-x 1 0 0 [LSN 36] 0 Mar 05 2005 15:27:05 COPYING

/tmp/:
  dr-xr-xr-x 4 0 0 [LSN 23] 2048 Mar 05 2005 16:12:25..
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1.1932 yum-langpacks 0.4.2-7.el7

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c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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@(#) SRCsfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

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1.1955 jansson 2.10-1.el7

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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the same as in the ordinary license.

The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

Because of this blurred distinction, using the ordinary General
Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
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preserving your freedom as a user of such programs to change the free
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Note that it is possible for a library to be covered by the ordinary
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/BeanMetadataAttribute.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/support/SimpleSecurityContextProvider.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/support/ManagedSet.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessorAdapter.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/propertyeditors/InputSourceEditor.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/factory/BeanIsAbstractException.java
No license file was found, but licenses were detected in source scan.

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 */

Found in path(s):
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/propertyeditors/CharArrayPropertyEditor.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/propertyeditors/CustomMapEditor.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/propertyeditors/LocaleEditor.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/support/MethodReplacer.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/propertyeditors/NullMapEditor.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/propertyeditors/NullListPropertyEditor.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/propertyeditors/NullArrayPropertyEditor.java
* /opt/cola/permits/1144749194_1618993700.3/0/spring-beans-4-1-5-release-sources-3-jar/org/springframework/beans/propertyeditors/NullPropertyEditor.java
1.1961 selinux 2.7-2build2

1.1961.1 Available under license:

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http://userspace.selinuxproject.org/trac/wiki/Releases

This package was debianized by Colin Walters <walters@debian.org> on Thu, 3 Jul 2003 17:10:57 -0400.

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----------------------------------------------------------------------------

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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.1962 libunistring 0.9.9 0ubuntu2

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* /opt/cola/permits/1110783928_1606854170.13/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/LICENSE.rst

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===

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

===

import io, sys
from setuptools import setup

def main():

    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")

    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)

    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
            'Operating System :: OS Independent',
            'Programming Language :: Python',
            'Programming Language :: Python :: 2',
            'Programming Language :: Python :: 2.7',
        ]
    }

    setup(**arguments)
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: 3.7',
'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
]
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/cola/permits/1110783928_1606854170.13/0/kjd-idna-v2-9-0-g1233a73-1-tar-gz/kjd-idna-8a6016e/setup.py

1.1967 lockdev 1.0.4-0.13.20111007git.el7
1.1967.1 Available under license :
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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1.1969 llvm-private 7.0.1-1.el7

1.1969.1 Available under license:

; RUN: llc -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right
; register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246
CF246: ; preds = %CF246, %BB
  %SI163 = select i1 %Cmp56, i8 %L34, i8 undef
  br i1 undef, label %CF246, label %CF248
CF248: ; preds = %CF248, %CF246
  store i8 %SI163, i8* %0
  br label %CF248
}

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 */

; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
; CHECK-LABEL: test_sitofp_fixed:

; First, extend each i32 to i64

; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
; CHECK-DAG: sshll.2d [[BLOCK0_LO:v[0-9]+]], v0, #0
; CHECK-DAG: sshll.2d [[BLOCK1_LO:v[0-9]+]], v1, #0
; CHECK-DAG: sshll.2d [[BLOCK2_LO:v[0-9]+]], v2, #0
; CHECK-DAG: sshll.2d [[BLOCK3_LO:v[0-9]+]], v3, #0

; Next, convert each to double.
; CHECK-DAG: scvtf.2d v0, [[BLOCK0_LO]]
; CHECK-DAG: scvtf.2d v1, [[BLOCK0_HI]]
; CHECK-DAG: scvtf.2d v2, [[BLOCK1_LO]]
; CHECK-DAG: scvtf.2d v3, [[BLOCK1_HI]]
; CHECK-DAG: scvtf.2d v4, [[BLOCK2_LO]]
; CHECK-DAG: scvtf.2d v5, [[BLOCK2_HI]]
; CHECK-DAG: scvtf.2d v6, [[BLOCK3_LO]]
; CHECK-DAG: scvtf.2d v7, [[BLOCK3_HI]]

; CHECK: ret
%flt = sitofp <16 x i32> %in to <16 x double>
%res = fdiv <16 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}

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'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Developed by:

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University of Illinois at Urbana-Champaign

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Program Directory
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<none yet> LICENSE

This is an installer created using CPack (https://cmake.org). No license provided.
; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
    entry:
    br i1 undef, label %while.end, label %while.body.lr.ph

    while.body.lr.ph: ; preds = %entry
        br label %while.body

    while.body: ; preds = %exit.2, %while.body.lr.ph
        %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]

    }
switch i32 undef, label %exit [  
  i32 1, label %sw.bb.i  
  i32 2, label %sw.bb3.i  
]  

sw.bb.i: ; preds = %while.body  
unreachable  

sw.bb3.i: ; preds = %while.body  
unreachable  

exit: ; preds = %while.body  
switch i32 undef, label %exit.2 [  
  i32 1, label %sw.bb.i17  
  i32 2, label %sw.bb3.i20  
]  

sw.bb.i17: ; preds = %exit  
%0 = bitcast %struct.0* %lsr.iv to i32*  
%1 = load i32, i32* %0, align 4  
unreachable  

sw.bb3.i20: ; preds = %exit  
%2 = bitcast %struct.0* %lsr.iv to i8**  
%3 = load i8*, i8** %2, align 4  
unreachable  

exit.2: ; preds = %exit  
%cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1  
br label %while.body  

while.end: ; preds = %entry  
ret void  
}  

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }  

CMake - Cross Platform Makefile Generator  
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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<td>&lt;none yet&gt;</td>
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; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
; D31946
; Check that we dont end up with the ""LLVM ERROR: Cannot select" error.
; Additionally ensure that the output code actually put fp128 values in SSE registers.

declare fp128 @llvmfabs.f128(fp128)
declare fp128 @llvm.copysign.f128(fp128, fp128)

define fp128 @TestSelect(fp128 %a, fp128 %b) {
  %cmp = fcmp ogt fp128 %a, %b
  %sub = fsub fp128 %a, %b
  %res = select i1 %cmp, fp128 %sub, fp128 0xL00000000000000000000000000000000
  ret fp128 %res
}

; CHECK-LABEL: TestSelect:
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1.1970 lz4 1.8.3-1.el7

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1.1975 jboss-marshalling-river 1.4.2.Final-redhat-1

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* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlMixed.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlSchemaTypes.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlInlineBinaryData.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlMimeType.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlAccessorType.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlAttachmentRef.java
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* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/Binder.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/DomHandler.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlAnyElement.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/annotation/XmlAccessorType.java
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* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/helpers/ParseConversionEventImpl.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/UnmarshallerHandler.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/ParseConversionEvent.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/helpers/PrintConversionEventImpl.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/JAXBContext.java
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* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/helpers/NotIdentifiableEventImpl.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/NotIdentifiableEvent.java

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* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/ValidationEvent.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/util/JAXBResult.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/util/JAXBSource.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/JAXBException.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/helpers/ValidationEventImpl.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/helpers/Messages.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/Unmarshaller.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/helpers/ValidationEventLocatorImpl.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/Marshaller.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/Element.java
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* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/PrintConversionEvent.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/unmarshaller/ValidationEventImpl.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/unmarshaller/Messages.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/unmarshaller/Unmarshaller.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/unmarshaller/ValidationEventLocatorImpl.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/unmarshaller/Marshaller.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/unmarshaller/Element.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/unmarshaller/PrintConversionEvent.java
* /opt/cola/permits/1126582920_1611721903.7/0/jaxb-api-2-2-sources-jar/javax/xml/bind/unmarshaller/ValidationEventLocatorImpl.java
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1.1989 java-saml-core 2.6.0

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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/sh/command/basic/BasicCommandSet.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/CompileException.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/compiler/AccessorNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/PreFixIncNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/VariableResolverFactory.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/ClassImportResolverFactory.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/conversion/UnitConversion.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/LineLabel.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/DoUntilNode.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/integration/impl/TypeInjectionResolverFactory.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ParserContext.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/templates/res/TerminalNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/templates/TemplateSyntaxError.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/debug/Debugger.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/OptimizationFailure.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/Negation.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2.jar/org/mvel2/util/JITClassLoader.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2.jar/org/mvel2/ast/NewObjectNode.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/sh/command/basic/PushContext.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/integration/PropertyHandler.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2/ast/templates/res/Opcodes.java
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* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/ast/DeclTypedVarNode.java
* /opt/cola/permits/1136651898_1613848772.3/0/mvel2-2-1-8-final-sources-2-jar/org/mvel2/sh/DefaultEnvironment.java
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  * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
  * Added generation of field number constants.
Wink Saville <wink@google.com>
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Will Pierce <willp@nuclei.com>
  * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
  * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
  * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
Alexander Melnikov <alm@sibmail.ru>
  * HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
  * Detect whether zlib is new enough in configure script.
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
Michael Kucharski <m.kucharski@gmail.com>
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William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
* Added atomicops for Solaris
Andrew Paprocki <andrew@ishiboo.com>
* Fixed minor IBM xlC compiler build issues
* Added atomicops for AIX (POWER)

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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1.2017.1 Available under license :

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/**
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
 * exceptions there is no value in catching.
 * <li>Allow the implementation of error handling to be modified
 * to target different RDBMSes without introducing proprietary
 * dependencies into application code.
 * </li>
 * </ul>
 *
 * This package and related packages are discussed in Chapter 9 of
 * Expert One-On-One J2EE Design and Development (Wrox, 2002).
 */

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jar/org/springframework/jdbc/package-info.java
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Abstraction for handling large binary fields and large text fields in specific databases, no matter if represented as simple types or Large OBjects. Its main purpose is to isolate Oracle 9i’s peculiar handling of LOBs in \{@link OracleLobHandler\}; most other databases should be able to work with the provided \{@link DefaultLobHandler\}.

<p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for LobCreator instances, to be used as sessions for creating BLOBs or CLOBs. LobCreators are typically instantiated for each statement execution or for each transaction; they are not thread-safe because they might track allocated database resources in order to free them after execution.

<p>Most databases/drivers should be able to work with \{@link DefaultLobHandler\}, which by default delegates to JDBC’s direct accessor methods, avoiding the \{@code java.sql.Blob\} and \{@code java.sql.Clob\} API completely. \{@link DefaultLobHandler\} can also be configured to access LOBs using \{@code PreparedStatement.setBlob/setClob\} (e.g. for PostgreSQL), through setting the \{@link DefaultLobHandler#setWrapAsLob "wrapAsLob"\} property.

<p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own proprietary BLOB/CLOB API, and additionally doesn’t accept large streams for PreparedStatement’s corresponding setter methods. Therefore, you need to use \{@link OracleLobHandler\} there, which uses Oracle's BLOB/CLOB API for both types of access. The Oracle 10g+ JDBC driver will work with \{@link DefaultLobHandler\} as well, with some limitations in terms of LOB sizes depending on DBMS setup; as of Oracle 11g (or actually, using the 11g driver even against older databases), there should be no need to use \{@link OracleLobHandler\} at all anymore.

<p>Of course, you need to declare different field types for each database. In Oracle, any binary content needs to go into a BLOB, and all character content beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete portability, use a LobHandler for fields that might typically require LOBs on
* some database because of the field size (take Oracle's numbers as a guideline).

* <p><b>Summarizing the recommended options (for actual LOB fields):</b></p>

* <ul>
  * <li><b>JDBC 4.0 driver (including Oracle 11g driver):</b> Use {@link DefaultLobHandler},
    potentially with {@code streamAsLob=true} if your database driver requires that
    hint when populating a LOB field. Fall back to {@code createTemporaryLob=true} if
    you happen to run into LOB size limitations with your (Oracle) database setup.
  * <li><b>Oracle 10g driver:</b> Use {@link DefaultLobHandler} with standard setup.
    On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2,
    DefaultLobHandler should work with standard setup out of the box. Alternatively,
    consider using the proprietary {@link OracleLobHandler} (see below).
  * <li><b>Oracle 9i driver:</b> Use {@link OracleLobHandler} with a connection-pool-specific
    {@code setNativeJdbcExtractor NativeJdbcExtractor}.<br />
  * <li><b>PostgreSQL:</b> Configure {@link DefaultLobHandler} with {@code wrapAsLob=true},
    and use that LobHandler to access OID columns (but not BYTEA) in your database tables.
  * <li>For all other database drivers (and for non-LOB fields that might potentially turn into LOBs on some databases): Simply use a plain {@link DefaultLobHandler}.
  * </ul>

* @author Juergen Hoeller

* @since 23.12.2003

* @see DefaultLobHandler

* @see OracleLobHandler

* @see java.sql.ResultSet#getBlob

* @see java.sql.ResultSet#getClob

* @see java.sql.ResultSet#getBytes

* @see java.sql.ResultSet#castBinaryStream

* @see java.sql.ResultSet#castString

* @see java.sql.ResultSet#castAsciiStream

*/

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  jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java
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  jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
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  jar/org/springframework/jdbc/support/xml/SqXmlValue.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-jar/org/springframework/jdbc/core/metadata/DerbyCallMetaDataProvider.java

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*/
/**
 * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
 * Will not need to do anything if using PreparedStatement's standard methods,
 * but might be necessary to free database resources if using proprietary means.
 * </p><b>NOTE</b>: Needs to be invoked after the involved PreparedStatements have
 * been executed or the affected O/R mapping sessions have been flushed.
 * Otherwise, the database resources for the temporary BLOBs might stay allocated.
 */

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  jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
  jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
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*/
/**
*
* Strategy interface for translating between [SQLException SQLExceptions]
* and Spring's data access strategy-agnostic [DataAccessException]
* hierarchy.
* 
* <p>Implementations can be generic (for example, using
* [SQLException#getSQLState() SQLState] codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
* 
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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  jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
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  jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
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 */
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
* @return Map of input parameters, keyed by name (never { @code null })
*/

Found in path(s):
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/core/ParameterMapper.java
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/*
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* [LobHandler] implementation for Oracle databases. Uses proprietary API
* to create [oracle.sql.BLOB] and [oracle.sql.CLOB]
* instances, as necessary when working with Oracle's JDBC driver.
* Note that this LobHandler requires Oracle JDBC driver 9i or higher!

* While most databases are able to work with [DefaultLobHandler],
  * Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts
  * Blob/Clob instances created via its own proprietary BLOB/CLOB API,
  * and additionally doesn't accept large streams for PreparedStatement's
* corresponding setter methods. Therefore, you need to use a strategy like
  * this LobHandler implementation, or upgrade to the Oracle 10g/11g driver
  * (which still supports access to Oracle 9i databases).

*NOTE: As of Oracle 10.2, [DefaultLobHandler] should work equally
* well out of the box. On Oracle 11g, JDBC 4.0 based options such as
  * [DefaultLobHandler#setStreamAsLob] and [DefaultLobHandler#setCreateTemporaryLob]
* are available as well, rendering this proprietary OracleLobHandler obsolete.
* Also, consider upgrading to a new driver even when accessing an older database.
* See the [LobHandler] interface javadoc for a summary of recommendations.

* Needs to work on a native JDBC Connection, to be able to cast it to
  * [oracle.jdbc.OracleConnection]. If you pass in Connections from a
* connection pool (the usual case in a Java EE environment), you need to set an
* appropriate [org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor]
* to allow for automatic retrieval of the underlying native JDBC Connection.
* LobHandler and NativeJdbcExtractor are separate concerns, therefore they
* are represented by separate strategy interfaces.

* Coded via reflection to avoid dependencies on Oracle classes.
* Even reads in Oracle constants via reflection because of different Oracle
  * drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
* As this LobHandler initializes Oracle classes on instantiation, do not define
  * this as eager-initializing singleton if you do not want to depend on the Oracle
* JAR being in the class path: use "lazy-init=true" to avoid this issue.

* @author Juergen Hoeller
* @author Thomas Risberg
* @since 04.12.2003
* @see DefaultLobHandler
* @see %setNativeJdbcExtractor
* @deprecated in favor of [@link DefaultLobHandler] for the Oracle 10g driver and
* higher. Consider using the 10g/11g driver even against an Oracle 9i database!
* [@link DefaultLobHandler#setCreateTemporaryLob] is the direct equivalent of this
* OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
* That said, in most cases, regular DefaultLobHandler setup will work fine as well.
*/

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* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/support/lob/OracleLobHandler.java
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jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/core/metadata/TableMetaDataProvider.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/datasource/nativejdbc/SimpleNativeJdbcExtractor.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/datasource/nativejdbc/SimpleNativeJdbcExtractor.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-
jar/org/springframework/jdbc/datasource/nativejdbc/SimpleNativeJdbcExtractor.java
* /opt/cola/permits/1144749139_1618993700.44/0/spring-jdbc-4-1-5-release-sources-3-

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1.2022 jackson-databind 2.12.1

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.2030 keyutils 1.5.9 9.2ubuntu2

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Richard Outerbridge

DES core in libhcrypto

D3DES (V5.09) -

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{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)" },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sndto, "sndto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsocketpt, "setsocketpt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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History
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1.2041 glib 2.56.1-8.el7

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* Date: 20010111
* Why: Because I couldn't find one that I liked. So I wrote this one.
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1.2050 msv-core 2011.1

1.2051 libxext 1.3.4
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1.2052 nmap 6.40-19.el7

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On all platforms, Nmap is normally linked with:
- libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
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- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/
- liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  http://www.lua.org/
- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
  http://www.openssl.org/
- LIBLINEAR. Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/

On Windows only, Nmap uses:
- WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
  http://www.winpcap.org/

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Zenmap and Ndiff require:
o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
http://www.python.org/

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o Expat: XML parser library.
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The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
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Written by: Philip Hazel
Email local part: ph10
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Hi, Hans. Nice to 'meet' you.

Yes, that's fine. Take what you need from my code and use it in your LGPL licensed library. I'm all in favor of removing v4l1 from the kernel.

Bill.

On 5/18/2010 12:40 AM, Hans de Goede wrote:
  > Hi Bill,
  >
  > AFAIK you've been out of the v4l loop, so I assume you
don't know me, this let me start with a shot self introduction:

I'm a Linux enthusiast / developer. Amongst other things I've
ported over many webcam drivers from v4l1 to v4l2 and I'm the
author and maintainer of libv4l.

Let me also quickly introduce libv4l about 3 years ago I had
too much free time and was looking for a hobby project and I
decided that improving webcam support under Linux would be
a nice project. At that time there were many webcam driver but
most of them were out of tree, including the gspca driver
which is a usb webcam driver framework supporting a lot
of different chipsets.

One problem with getting these merged is that a lot of webcam
chipsets produce proprietary (compressed) video formats, which
apps don't understand. The out of tree drivers all "fixed" this
by doing decompression and video format conversion inside the
kernel.

This was not acceptable thus it was time to write a library
to sit between v4l2 apps and devices which could do format
conversion if necessary. This resulted in libv4l2 and
libv4lconvert being written, with libv4l2 being the glue sitting
in between and libv4lconvert doing the actual conversion.

But this did not help v4l1 apps, so I also wrote libv4l1 for those.

Both libv4l1 and libv4l2 work by emulating the raw device API, all
one needs to do is write v4lx_open instead of plain open when opening
the device and them use v4lx_ioctl, etc. on the resulting fd instead
of their plain versions. This serves 2 purposes:
1) It makes porting of apps the the library trivial
2) It allows for an LD_PRELOAD shim (used for proprietary apps such
    as skype).

And now (finally) my question to you, lately we (the v4l devs) have
been working on removing the last bits of v4l1 from the kernel.
We would like to also remove the v4l1 ioctl compatibility (*), but
currently libv4l1 depends on the v4l1 ioctl compatibility for some
ioctl.

Fixing this comes down to looking at what the kernel compat code
does and then implementing that in libv4l1. This will likely involve
some direct copying and libv4l1 is licensed under the LGPL rather
then the GPL. Thus my question is would it be ok to use your v4l1 compat
code under the LGPL inside libv4l ?

Opening while I was busy: I'd given up hope for the project but
someone has given it a new lease of life, I'm very pleased.
Hi,

Thanks & Regards,

Hans

(*) As in practice v4l1 apps need libv4l1 anyways both for format conversion and because some v4l2 drivers don't implement VIDIOCGBUF including rather important ones like the UVC driver, thus we've come to the conclusion that we might just as well drop the compatibility from the kernel.

Hi,
> My question to you is would it be ok to use your v4l1 compat
> contributions under the LGPL inside libv4l1?

Fine with me.

cheers,
Gerd

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zmta02.collab.prod.int.phx2.redhat.com) (10.5.5.32) by
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Message-ID: <3968c0dc456676eb0b1652936d795482.squirrel@webmail.xs4all.nl>
In-Reply-To: <4BF3A064.7080602@redhat.com>
References: <4BF3A064.7080602@redhat.com>
Date: Wed, 19 May 2010 10:27:50 +0200
Subject: Re: Re-licensing v4l1-compat.c code which you wrote
From: "Hans Verkuil" <hverkuil@xs4all.nl>
To: "Hans de Goede" <hdegoede@redhat.com>
Cc: "Gerd Hoffmann" <kraxel@redhat.com>,
    "Mauro Carvalho Chehab" <mchehab@redhat.com>,
Hi All,

I'm writing you all because you've contributed patches to the kernels v4l1 ioctl compat code living in v4l1-compat.c

Most of you already know me, and know that I'm working on making libv4l1 become independent of the kernel v4l1 ioctl compat code, so that it can be removed from the kernel.

For those who don't know me or the v4l1 cleanup effort, read below for the long story.

Making libv4l1 independent of the v4l1-compat.c code in the kernel comes down to looking at what the kernel compat code does and then implementing that in libv4l1. This will likely involve some direct copying and libv4l1 is licensed under the LGPL rather than the GPL. I already have permission from Bill Dirks who wrote the initial v4l1-compat code to do this.

My question to you is would it be ok to use your v4l1 compat contributions under the LGPL inside libv4l1?

Permission granted.

Looking forward to seeing this in libv4l1 so we can kill this legacy code in the kernel.

Regards,

Hans Verkuil

> Thank you all,
The long story:

I'm a Linux enthusiast / developer. Amongst other things I've ported over many webcam drivers from v4l1 to v4l2 and I'm the author and maintainer of libv4l.

Let me also quickly introduce libv4l about 3 years ago I had too much free time and was looking for a hobby project and I decided that improving webcam support under Linux would be a nice project. At that time there were many webcam driver but most of them were out of tree, including the gspca driver which is a usb webcam driver framework supporting a lot of different chipsets.

One problem with getting these merged is that a lot of webcam chipsets produce proprietary (compressed) video formats, which apps don't understand. The out of tree drivers all "fixed" this by doing decompression and video format conversion inside the kernel.

This was not acceptable thus it was time to write a library to sit between v4l2 apps and devices which could do format conversion if necessary. This resulted in libv4l2 and libv4lconvert being written, with libv4l2 being the glue sitting in between and libv4lconvert doing the actual conversion.

But this did not help v4l1 apps, so I also wrote libv4l1 for those.

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1) It makes porting of apps the library trivial
2) It allows for an LD_PRELOAD shim (used for proprietary apps such as skype).

Lately we (the v4l devs) have been working on removing the last bits of v4l1 from the kernel. We would like to also remove the v4l1 ioctl compatibility (*), but currently libv4l1 depends on the v4l1 ioctl compatibility for some ioctls, we are working on fixing this which involves re-using code from v4l1-compat.c, hence the re-licensing permission question.

(*) As in practice v4l1 apps need libv4l1 anyways both for format conversion and because some v4l2 drivers don't implement VIDIOCGBUF including rather important ones like the UVC driver, thus we've come to the conclusion that we might just as well drop the
Hi All,

I'm writing you all because you've contributed patches
to the kernels v411 ioctl compat code living in v411-compat.c
Most of you already know me, and know that I'm working on making libv4l1 become independent of the kernel v4l1 ioctl compat code, so that it can be removed from the kernel.

For those who don't know me or the v4l1 cleanup effort, read below for the long story.

Making libv4l1 independent of the v4l1-compat.c code in the kernel comes down to looking at what the kernel compat code does and then implementing that in libv4l1. This will likely involve some direct copying and libv4l1 is licensed under the LGPL rather than the GPL. I already have permission from Bill Dirks who wrote the initial v4l1-compat code to do this.

My question to you is would it be ok to use your v4l1 compat contributions under the LGPL inside libv4l1?

LGPL for v4l1-compat code is fine for me.

Cheers,
Mauro

#############################################################################

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That's all there is to it!
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Client application for querying drivers' configuration information
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## Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
* https://github.com/eclipse-ee4j/glassfish-jsftemplating
* https://github.com/eclipse-ee4j/glassfish-hk2-extra
* https://github.com/eclipse-ee4j/glassfish-hk2
* https://github.com/eclipse-ee4j/glassfish-fighterfish

## Third-party Content

This project leverages the following third party content.

None

## Cryptography

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1.2080 go-runtime 1.13.8

1.2080.1 Available under license:

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1.2089 perl-filter 1.49 3.el7
1.2090 perl-encode 2.51-7.el7

1.2090.1 Available under license:

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---
abstract: unknown
author:
  - unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Encode
no_index:
directory:
  - t
  - inc
requires: {}
version: 2.51

Found in path(s):
No license file was found, but licenses were detected in source scan.

Encode::$_Name_ version 0.1

NAME
  Encode::$_Name_ - <describe encoding>

SYNOPSIS
  use Encode::$_Name_;
  #<put more words here>

ABSTRACT
  <fill this in>

INSTALLATION

To install this module type the following:
perl Makefile.PL
make
make test
make install

DEPENDENCIES

This module requires perl version 5.7.3 or later.

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NAME

Encode::Supported -- Encodings supported by Encode

DESCRIPTION

Encoding Names

Encoding names are case insensitive. White space in names is ignored. In addition, an encoding may have aliases. Each encoding has one "canonical" name. The "canonical" name is chosen from the names of the encoding by picking the first in the following sequence (with a few exceptions).

NAME

The name used by the Perl community. That includes 'utf8' and 'ascii'. Unlike aliases, canonical names directly reach the method so such
frequently used words like 'utf8' don't need to do alias lookups.

=item *

The MIME name as defined in IETF RFCs. This includes all "iso-"s.

=item *

The name in the IANA registry.

=item *

The name used by the organization that defined it.

=back

In case I<de jure> canonical names differ from that of the Encode module, they are always aliased if it ever be implemented. So you can safely tell if a given encoding is implemented or not just by passing the canonical name.

Because of all the alias issues, and because in the general case encodings have state, "Encode" uses an encoding object internally once an operation is in progress.

=head1 Supported Encodings

As of Perl 5.8.0, at least the following encodings are recognized. Note that unless otherwise specified, they are all case insensitive (via alias) and all occurrence of spaces are replaced with '-'.

In other words, "ISO 8859 1" and "iso-8859-1" are identical.

Encodings are categorized and implemented in several different modules but you don't have to C<use Encode::XX> to make them available for most cases. Encode.pm will automatically load those modules on demand.

=head2 Built-in Encodings

The following encodings are always available.

<table>
<thead>
<tr>
<th>Canonical</th>
<th>Aliases</th>
<th>Comments &amp; References</th>
</tr>
</thead>
<tbody>
<tr>
<td>ascii</td>
<td>US-ascii ISO-646-US</td>
<td>[ECMA]</td>
</tr>
<tr>
<td>ascii-ctrl</td>
<td>Special Encoding</td>
<td></td>
</tr>
<tr>
<td>iso-8859-1</td>
<td>latin1</td>
<td>[ISO]</td>
</tr>
<tr>
<td>null</td>
<td>Special Encoding</td>
<td></td>
</tr>
<tr>
<td>utf8</td>
<td>UTF-8</td>
<td>[RFC2279]</td>
</tr>
</tbody>
</table>

-------------------------------------------------------------------
I<null> and I<ascii-ctrl> are special. "null" fails for all character
so when you set fallback mode to PERLQQ, HTMLCREF or XMLCREF, ALL
CHARACTERS will fall back to character references. Ditto for
"ascii-ctrl" except for control characters. For fallback modes, see
L<Encode>.

=head2 Encode::Unicode -- other Unicode encodings

Unicode coding schemes other than native utf8 are supported by
Encode::Unicode, which will be autoloaded on demand.

----------------------------------------------------------------
| UCS-2BE | UCS-2, iso-10646-1 | [IANA, UC] |
| UCS-2LE |                | [UC]      |
| UTF-16  |                | [UC]      |
| UTF-16BE|                | [UC]      |
| UTF-16LE|                | [UC]      |
| UTF-32  |                | [UC]      |
| UTF-32BEUCS-4 |            | [UC]      |
| UTF-32LE|                | [UC]      |
| UTF-7   |                | [RFC2152] |
----------------------------------------------------------------

To find how (UCS-2|UTF-(16|32))(LE|BE)? differ from one another,
see L<Encode::Unicode>.

UTF-7 is a special encoding which "re-encodes" UTF-16BE into a 7-bit
encoding. It is implemented separately by Encode::Unicode::UTF7.

=head2 Encode::Byte -- Extended ASCII

Encode::Byte implements most single-byte encodings except for
Symbols and EBCDIC. The following encodings are based on single-byte
encodings implemented as extended ASCII. Most of them map
\x80-\xff (upper half) to non-ASCII characters.

=over 2

=item ISO-8859 and corresponding vendor mappings

Since there are so many, they are presented in table format with
languages and corresponding encoding names by vendors. Note that
the table is sorted in order of ISO-8859 and the corresponding vendor
mappings are slightly different from that of ISO. See

Lang/Regions   ISO/Other Std. DOS Windows Macintosh Others
<table>
<thead>
<tr>
<th>Region</th>
<th>Encoding</th>
<th>IBM Encodings</th>
<th>Macintosh Encodings</th>
</tr>
</thead>
<tbody>
<tr>
<td>N. America</td>
<td>(ASCII)</td>
<td>cp437</td>
<td>AdobeStandardEncoding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>cp863</td>
<td>DOSCanadaF</td>
</tr>
<tr>
<td>W. Europe</td>
<td>iso-8859-1</td>
<td>cp850</td>
<td>cp1252 MacRoman</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>nextstep hp-roman8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>cp860</td>
<td>DOSPortuguese</td>
</tr>
<tr>
<td>Cntrl. Europe</td>
<td>iso-8859-2</td>
<td>cp852</td>
<td>cp1250 MacCentralEurRoman</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MacCroatian</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MacRomanian</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MacRumanian</td>
</tr>
<tr>
<td>Latin3[1]</td>
<td>iso-8859-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin4[2]</td>
<td>iso-8859-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cyrillics</td>
<td>iso-8859-5</td>
<td>cp855</td>
<td>cp1251 MacCyrillic</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(See also next section) cp866 MacUkrainian</td>
</tr>
<tr>
<td>Arabic</td>
<td>iso-8859-6</td>
<td>cp864</td>
<td>cp1256 MacArabic</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>cp1006 MacFarsi</td>
</tr>
<tr>
<td>Greek</td>
<td>iso-8859-7</td>
<td>cp737</td>
<td>cp1253 MacGreek</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>cp869 DOSGreek2</td>
</tr>
<tr>
<td>Hebrew</td>
<td>iso-8859-8</td>
<td>cp862</td>
<td>cp1255 MacHebrew</td>
</tr>
<tr>
<td>Turkish</td>
<td>iso-8859-9</td>
<td>cp857</td>
<td>cp1254 MacTurkish</td>
</tr>
<tr>
<td>Nordics</td>
<td>iso-8859-10</td>
<td>cp865</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>cp861</td>
<td>MacIcelandic</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>MacSami</td>
</tr>
<tr>
<td>Thai</td>
<td>iso-8859-11[3]</td>
<td>cp874</td>
<td>MacThai</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(iso-8859-12 is nonexistent. Reserved for Indics?)</td>
</tr>
<tr>
<td>Baltics</td>
<td>iso-8859-13</td>
<td>cp775</td>
<td>cp1257</td>
</tr>
<tr>
<td>Celtics</td>
<td>iso-8859-14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin10</td>
<td>iso-8859-16</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vietnamese</td>
<td>viscii</td>
<td>cp1258</td>
<td>MacVietnamese</td>
</tr>
</tbody>
</table>

---

[1] Esperanto, Maltese, and Turkish. Turkish is now on 8859-9.
[3] TIS 620 + Non-Breaking Space (0xA0 / U+00A0)
[4] Nicknamed Latin0; the Euro sign as well as French and Finnish letters that are missing from 8859-1 were added.

All cp* are also available as ibm-*, ms-*, and windows-* . See also L<http://czyborra.com/charsets/codepages.html>.

Macintosh encodings don't seem to be registered in such entities as IANA. "Canonical” names in Encode are based upon Apple’s Tech Note 1150. See L<http://developer.apple.com/technotes/tn/tn1150.html> for details.

=item KOI8 - De Facto Standard for the Cyrillic world
Though ISO-8859 does have ISO-8859-5, the KOI8 series is far more popular in the Net. L<Encode> comes with the following KOI charsets. For gory details, see L<http://czyborra.com/charsets/cyrillic.html>

----------------------------------------------------------------

koi8-f
koi8-r cp878 [RFC1489]
koi8-u [RFC2319]
----------------------------------------------------------------

=back

=head2 gsm0338 - Hentai Latin 1

GSM0338 is for GSM handsets. Though it shares alphanumerals with ASCII, control character ranges and other parts are mapped very differently, mainly to store Greek characters. There are also escape sequences (starting with 0x1B) to cover e.g. the Euro sign.

This was once handled by L<Encode::Bytes> but because of all those unusual specifications, Encode 2.20 has relocated the support to L<Encode::GSM0338>. See L<Encode::GSM0338> for details.

=over 2

=item gsm0338 support before 2.19

Some special cases like a trailing 0x00 byte or a lone 0x1B byte are not well-defined and decode() will return an empty string for them. One possible workaround is

    $gsm =~ s/\x00\z/\x00\x00/;
    $uni = decode("gsm0338", $gsm);
    $uni .= "\xA0" if $gsm =~ /\x1B\z/;

Note that the Encode implementation of GSM0338 does not implement the reuse of Latin capital letters as Greek capital letters (for example, the 0x5A is U+005A (LATIN CAPITAL LETTER Z), not U+0396 (GREEK CAPITAL LETTER ZETA)).

The GSM0338 is also covered in Encode::Byte even though it is not an "extended ASCII" encoding.

=back

=head2 CJK: Chinese, Japanese, Korean (Multibyte)

Note that Vietnamese is listed above. Also read "Encoding vs Charset"
below. Also note that these are implemented in distinct modules by
countries, due to the size concerns (simplified Chinese is mapped
to 'CN', continental China, while traditional Chinese is mapped to
'TW', Taiwan). Please refer to their respective documentation pages.

<table>
<thead>
<tr>
<th>Encode::CN -- Continental China</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
</tr>
<tr>
<td>-------------------------------</td>
</tr>
<tr>
<td>gb12345-raw</td>
</tr>
<tr>
<td>gb2312-raw</td>
</tr>
<tr>
<td>hz</td>
</tr>
<tr>
<td>iso-ir-165</td>
</tr>
</tbody>
</table>

[1] GB2312 is aliased to this. See L<Microsoft-related naming mess>
[2] gbk is aliased to this. See L<Microsoft-related naming mess>

<table>
<thead>
<tr>
<th>Encode::JP -- Japan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>euc-jp</td>
</tr>
<tr>
<td>shiftjis</td>
</tr>
<tr>
<td>7bit-jis</td>
</tr>
<tr>
<td>iso-2022-jp</td>
</tr>
<tr>
<td>iso-2022-jp-1</td>
</tr>
<tr>
<td>jis0201-raw</td>
</tr>
<tr>
<td>jis0208-raw</td>
</tr>
<tr>
<td>jis0212-raw</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Encode::KR -- Korea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
</tr>
<tr>
<td>---------------------</td>
</tr>
<tr>
<td>euc-kr</td>
</tr>
<tr>
<td>cp949 [1]</td>
</tr>
<tr>
<td>iso-2022-kr</td>
</tr>
<tr>
<td>ksc5601-raw</td>
</tr>
</tbody>
</table>

[1] ks_c_5601-1987, (x-)?windows-949, and uhc are aliased to this.
See below.

=item Encode::TW -- Taiwan

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>big5-eten</td>
<td>cp950</td>
<td>MacChineseTrad {big5 aliased to big5-eten}</td>
</tr>
</tbody>
</table>

=item Encode::HanExtra -- More Chinese via CPAN

Due to the size concerns, additional Chinese encodings below are distributed separately on CPAN, under the name Encode::HanExtra.

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>big5ext</td>
<td></td>
<td>CMEX's Big5e Extension</td>
</tr>
<tr>
<td>big5plus</td>
<td></td>
<td>CMEX's Big5+ Extension</td>
</tr>
<tr>
<td>cccii</td>
<td>Chinese Character Code for Information Interchange</td>
<td></td>
</tr>
<tr>
<td>euc-tw</td>
<td>EUC (Extended Unix Character)</td>
<td></td>
</tr>
<tr>
<td>gb18030</td>
<td>GBK with Traditional Characters</td>
<td></td>
</tr>
</tbody>
</table>

=item Encode::JIS2K -- JIS X 0213 encodings via CPAN

Due to size concerns, additional Japanese encodings below are distributed separately on CPAN, under the name Encode::JIS2K.

<table>
<thead>
<tr>
<th>Standard</th>
<th>DOS/Win Macintosh</th>
<th>Comment/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>euc-jisx0213</td>
<td></td>
<td></td>
</tr>
<tr>
<td>shiftjisx0123</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iso-2022-jp-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>jis0213-1-raw</td>
<td></td>
<td></td>
</tr>
<tr>
<td>jis0213-2-raw</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

=back

=head2 Miscellaneous encodings

=over 2

=item Encode::EBCDIC

See L<perlebcdic> for details.
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

------------------------------------------------------------------
cp37
cp500
cp875
cp1026
cp1047
posix-bc
------------------------------------------------------------------

=item Encode::Symbols

For symbols and dingbats.

------------------------------------------------------------------
symbol
dingbats
MacDingbats
AdobeZdingbat
AdobeSymbol
------------------------------------------------------------------

=item Encode::MIME::Header

Strictly speaking, MIME header encoding documented in RFC 2047 is more
of encapsulation than encoding. However, their support in modern
world is imperative so they are supported.

------------------------------------------------------------------
MIME-Header                   [RFC2047]
MIME-B                        [RFC2047]
MIME-Q                        [RFC2047]
------------------------------------------------------------------

=item Encode::Guess

This one is not a name of encoding but a utility that lets you pick up
the most appropriate encoding for a data out of given I<suspects>. See
L<Encode::Guess> for details.

=back

=head1 Unsupported encodings

The following encodings are not supported as yet; some because they
are rarely used, some because of technical difficulties. They may
be supported by external modules via CPAN in the future, however.

=over 2

=back

Not very popular yet. Needs Unicode Database or equivalent to implement encode() (because it includes JIS X 0208/0212, KSC5601, and GB2312 simultaneously, whose code points in Unicode overlap. So you need to lookup the database to determine to what character set a given Unicode character should belong).

=item ISO-2022-CN [RFC1922]

Not very popular. Needs CNS 11643-1 and -2 which are not available in this module. CNS 11643 is supported (via euc-tw) in Encode::HanExtra. Autrijus Tang may add support for this encoding in his module in future.

=item Various HP-UX encodings

The following are unsupported due to the lack of mapping data.

'8' - arabic8, greek8, hebrew8, kana8, thai8, and turkish8
'15' - japanese15, korean15, and roi15

=item Cyrillic encoding ISO-IR-111

Anton Tagunov doubts its usefulness.

=item ISO-8859-8-1 [Hebrew]

None of the Encode team knows Hebrew enough (ISO-8859-8, cp1255 and MacHebrew are supported because and just because there were mappings available at L<http://www.unicode.org/>). Contributions welcome.

=item ISIRI 3342, Iran System, ISIRI 2900 [Farsi]

Ditto.

=item Thai encoding TCVN

Ditto.

=item Vietnamese encodings VPS

Though Jungshik Shin has reported that Mozilla supports this encoding, it was too late before 5.8.0 for us to add it. In the future, it may be available via a separate module. See L<http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.uf> and L<http://lxr.mozilla.org/seamonkey/source/intl/uconv/ucvlatin/vps.ut>
if you are interested in helping us.

=item Various Mac encodings

The following are unsupported due to the lack of mapping data.

MacArmenian, MacBengali, MacBurmese, MacEthiopic
MacExtArabic, MacGeorgian, MacKannada, MacKhmer
MacLaotian, MacMalayalam, MacMongolian, MacOriya
MacSinhalese, MacTamil, MacTelugu, MacTibetan
MacVietnamese

The rest which are already available are based upon the vendor mappings at L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/>.

=item (Mac) Indic encodings

The maps for the following are available at L<http://www.unicode.org/> but remain unsupported because those encodings need an algorithmical approach, currently unsupported by F<enc2xs>:

MacDevanagari
MacGurmukhi
MacGujarati

For details, please see C<Unicode mapping issues and notes:> at L<http://www.unicode.org/Public/MAPPINGS/VENDORS/APPLE/DEVANAGA.TXT>.

I believe this issue is prevalent not only for Mac Indics but also in other Indic encodings, but the above were the only Indic encodings maps that I could find at L<http://www.unicode.org/>.

=back

=head1 Encoding vs. Charset -- terminology

We are used to using the term (character) I<encoding> and I<character set> interchangeably. But just as confusing the terms byte and character is dangerous and the terms should be differentiated when needed, we need to differentiate I<encoding> and I<character set>.

To understand that, here is a description of how we make computers grok our characters.
First we start with which characters to include. We call this collection of characters I<character repertoire>.

Then we have to give each character a unique ID so your computer can tell the difference between ‘a’ and ‘A’. This itemized character repertoire is now a I<character set>.

If your computer can grow the character set without further processing, you can go ahead and use it. This is called a I<coded character set> (CCS) or I<raw character encoding>. ASCII is used this way for most cases.

But in many cases, especially multi-byte CJK encodings, you have to tweak a little more. Your network connection may not accept any data with the Most Significant Bit set, and your computer may not be able to tell if a given byte is a whole character or just half of it. So you have to I<encode> the character set to use it.

A I<character encoding scheme> (CES) determines how to encode a given character set, or a set of multiple character sets. 7bit ISO-2022 is an example of a CES. You switch between character sets via I<escape sequences>.

Technically, or mathematically, speaking, a character set encoded in such a CES that maps character by character may form a CCS. EUC is such an example. The CES of EUC is as follows:

Map ASCII unchanged.

Map such a character set that consists of 94 or 96 powered by N members by adding 0x80 to each byte.
You can also use 0x8e and 0x8f to indicate that the following sequence of characters belongs to yet another character set. To each following byte is added the value 0x80.

By carefully looking at the encoded byte sequence, you can find that the byte sequence conforms a unique number. In that sense, EUC is a CCS generated by a CES above from up to four CCS (complicated?). UTF-8 falls into this category. See L<perlUnicode/'UTF-8'/> to find out how UTF-8 maps Unicode to a byte sequence.

You may also have found out by now why 7bit ISO-2022 cannot comprise a CCS. If you look at a byte sequence \x21\x21, you can't tell if it is two !'s or IDEOGRAPHIC SPACE. EUC maps the latter to \xA1\xA1 so you have no trouble differentiating between "!!". and S" ".

Encoding Classification (by Anton Tagunov and Dan Kogai)

This section tries to classify the supported encodings by their applicability for information exchange over the Internet and to choose the most suitable aliases to name them in the context of such communication.

To (en|de)code encodings marked by C<(**)>, you need C<Encode::HanExtra>, available from CPAN.

Encoding names

US-ASCII UTF-8 ISO-8859-* KOI8-R
EUC-KR Big5 GB2312

are registered with IANA as preferred MIME names and may be used over the Internet.

C<Shift_JIS> has been officialized by JIS X 0208:1997. L<Microsoft-related naming mess> gives details.

C<GB2312> is the IANA name for C<EUC-CN>. See L<Microsoft-related naming mess> for details.
C<GB_2312-80> I<raw> encoding is available as C<gb2312-raw> with Encode. See L<Encode::CN> for details.

EUC-CN
KOI8-U [RFC2319]

have not been registered with IANA (as of March 2002) but seem to be supported by major web browsers. The IANA name for C<EUC-CN> is C<GB2312>.

KS_C_5601-1987

is heavily misused. See L<Microsoft-related naming mess> for details.

C<KS_C_5601-1987> I<raw> encoding is available as C<kcs5601-raw> with Encode. See L<Encode::KR> for details.

UTF-16 UTF-16BE UTF-16LE

are IANA-registered C<charset>s. See [RFC 2781] for details. Jungshik Shin reports that UTF-16 with a BOM is well accepted by MS IE 5/6 and NS 4/6. Beware however that

=over 2

=item *

C<UTF-16> support in any software you're going to be using/interoperating with has probably been less tested than C<UTF-8> support

=item *

C<UTF-8> coded data seamlessly passes traditional command piping (C<cat>, C<more>, etc.) while C<UTF-16> coded data is likely to cause confusion (with its zero bytes, for example)

=item *

it is beyond the power of words to describe the way HTML browsers encode non-C<ASCII> form data. To get a general impression, visit L<http://www.alanflavell.org.uk/charset/form-i18n.html>.

While encoding of form data has stabilized for C<UTF-8> encoded pages (at least IE 5/6, NS 6, and Opera 6 behave consistently), be sure to expect fun (and cross-browser discrepancies) with C<UTF-16> encoded pages!
The rule of thumb is to use C<UTF-8> unless you know what you're doing and unless you really benefit from using C<UTF-16>.

ISO-IR-165  [RFC1345]
VISCII
GB 12345
GB 18030 (**)(see links bellow)
EUC-TW (**)

are totally valid encodings but not registered at IANA. The names under which they are listed here are probably the most widely-known names for these encodings and are recommended names.

BIG5PLUS (**)

is a proprietary name.

=head2 Microsoft-related naming mess

Microsoft products misuse the following names:

=over 2

=item KS_C_5601-1987

Microsoft extension to C<EUC-KR>.

Proper names: C<CP949>, C<UHC>, C<x-windows-949> (as used by Mozilla).


Encode aliases C<KS_C_5601-1987> to C<cp949> to reflect this common misusage. I<Raw> C<KS_C_5601-1987> encoding is available as C<kcs5601-raw>.

See L<Encode::KR> for details.

=item GB2312

Microsoft extension to C<EUC-CN>.

Proper names: C<CP936>, C<GBK>. 

C<GB2312> has been registered in the C<EUC-CN> meaning at IANA. This has partially repaired the situation: Microsoft's C<GB2312> has become a superset of the official C<GB2312>.

Encode aliases C<GB2312> to C<euc-cn> in full agreement with IANA registration. C<cp936> is supported separately. I<Raw> C<GB_2312-80> encoding is available as C<gb2312-raw>.

See L<Encode::CN> for details.

=item Big5

Microsoft extension to C<Big5>.

Proper name: C<CP950>.

Encode separately supports C<Big5> and C<cp950>.

=item Shift_JIS

Microsoft's understanding of C<Shift_JIS>.

JIS has not endorsed the full Microsoft standard however. The official C<Shift_JIS> includes only JIS X 0201 and JIS X 0208 character sets, while Microsoft has always used C<Shift_JIS> to encode a wider character repertoire. See C<IANA> registration for C<Windows-31J>.

As a historical predecessor, Microsoft's variant probably has more rights for the name, though it may be objected that Microsoft shouldn't have used JIS as part of the name in the first place.

Unambiguous name: C<CP932>. C<IANA> name (also used by Mozilla, and provided as an alias by Encode): C<Windows-31J>.

Encode separately supports C<Shift_JIS> and C<cp932>.

=back

=head1 Glossary

=head1 over 2

=item character repertoire

A collection of unique characters. A I<character> set in the strictest sense. At this stage, characters are not numbered.
=item coded character set (CCS)

A character set that is mapped in a way computers can use directly. Many character encodings, including EUC, fall in this category.

=item character encoding scheme (CES)

An algorithm to map a character set to a byte sequence. You don't have to be able to tell which character set a given byte sequence belongs. 7-bit ISO-2022 is a CES but it cannot be a CCS. EUC is an example of being both a CCS and CES.

=item charset (in MIME context)

has long been used in the meaning of C<encoding>, CES.

While the word combination C<character set> has lost this meaning in MIME context since [RFC 2130], the C<charset> abbreviation has retained it. This is how [RFC 2277] and [RFC 2278] bless C<charset>:

This document uses the term "charset" to mean a set of rules for mapping from a sequence of octets to a sequence of characters, such as the combination of a coded character set and a character encoding scheme; this is also what is used as an identifier in MIME "charset=" parameters, and registered in the IANA charset registry ... (Note that this is NOT a term used by other standards bodies, such as ISO). [RFC 2277]

=item EUC


=item ISO-2022

A CES that was carefully designed to coexist with ASCII. There are a 7 bit version and an 8 bit version.

The 7 bit version switches character set via escape sequence so it cannot form a CCS. Since this is more difficult to handle in programs than the 8 bit version, the 7 bit version is not very popular except for iso-2022-jp, the I<de facto> standard CES for e-mails.

The 8 bit version can form a CCS. EUC and ISO-8859 are two examples thereof. Pre-5.6 perl could use them as string literals.

=item UCS
Short for I<Universal Character Set>. When you say just UCS, it means I<Unicode>.

=item UCS-2

ISO/IEC 10646 encoding form: Universal Character Set coded in two octets.

=item Unicode

A character set that aims to include all character repertoires of the world. Many character sets in various national as well as industrial standards have become, in a way, just subsets of Unicode.

=item UTF

Short for I<Unicode Transformation Format>. Determines how to map a Unicode character into a byte sequence.

=item UTF-16

A UTF in 16-bit encoding. Can either be in big endian or little endian. The big endian version is called UTF-16BE (equal to UCS-2 + surrogate support) and the little endian version is called UTF-16LE.

=head1 See Also

L<Encode>, L<Encode::Byte>, L<Encode::CN>, L<Encode::JP>, L<Encode::KR>, L<Encode::TW>, L<Encode::EBCDIC>, L<Encode::Symbol>, L<Encode::MIME::Header>, L<Encode::Guess>

=head1 References

=over 2

=item ECMA

European Computer Manufacturers Association
L<http://www.ecma.ch>

=over 2

=item ECMA-035 (eq C<ISO-2022>)
The specification of ISO-2022 is available from the link above.

=back

=item IANA

Internet Assigned Numbers Authority
L<http://www.iana.org/>

=over 2

=item Assigned Charset Names by IANA

L<http://www.iana.org/assignments/character-sets>

Most of the C<canonical names> in Encode derive from this list so you can directly apply the string you have extracted from MIME header of mails and web pages.

=back

=item ISO

International Organization for Standardization
L<http://www.iso.ch/>

=item RFC

Request For Comments -- need I say more?  

=item UC

Unicode Consortium
L<http://www.unicode.org/>

=over 2

=item Unicode Glossary

L<http://www.unicode.org/glossary/>

The glossary of this document is based upon this site.

=back
=back

=head2 Other Notable Sites

=over 2

=item czyborra.com

L<http://czyborra.com/>

Contains a lot of useful information, especially gory details of ISO vs. vendor mappings.

=item CJK.inf

L<http://examples.oreilly.com/cjkvinfo/doc/cjk.inf>

Somewhat obsolete (last update in 1996), but still useful. Also try


You will find brief info on C<EUC-CN>, C<GBK> and mostly on C<GB 18030>.

=item Jungshik Shin's Hangul FAQ

L<http://jshin.net/faq>

And especially its subject 8.

L<http://jshin.net/faq/qa8.html>

A comprehensive overview of the Korean (C<KS *> ) standards.

=item debian.org: "Introduction to i18n"

A brief description for most of the mentioned CJK encodings is contained in


=back

=head2 Offline sources

=over 2

=item C< CJKV Information Processing> by Ken Lunde
The modern successor of CJK.inf.

Features a comprehensive coverage of CJKV character sets and encodings along with many other issues faced by anyone trying to better support CJKV languages/scripts in all the areas of information processing.

To purchase this book, visit
L<http://oreilly.com/catalog/9780596514471/> or your favourite bookstore.

=head1 NAME

Encode - character encodings in Perl

=head1 SYNOPSIS

use Encode qw(decode encode);

$characters = decode('UTF-8', $octets, Encode::FB_CROAK);
$octets = encode('UTF-8', $characters, Encode::FB_CROAK);

=head2 Table of Contents

Encode consists of a collection of modules whose details are too extensive to fit in one document. This one itself explains the top-level APIs and general topics at a glance. For other topics and more details, see the documentation for these modules:

=over 2

=item L<Encode::Alias> - Alias definitions to encodings

=item L<Encode::Encoding> - Encode Implementation Base Class

=item L<Encode::Supported> - List of Supported Encodings
The C<Encode> module provides the interface between Perl strings and the rest of the system. Perl strings are sequences of \texttt{characters}.

The repertoire of characters that Perl can represent is a superset of those defined by the Unicode Consortium. On most platforms the ordinal values of a character as returned by \texttt{ord()} is the \texttt{Unicode codepoint} for that character. The exceptions are platforms where the legacy encoding is some variant of EBCDIC rather than a superset of ASCII; see L<perlebcdic>.

During recent history, data is moved around a computer in 8-bit chunks, often called "bytes" but also known as "octets" in standards documents. Perl is widely used to manipulate data of many types: not only strings of characters representing human or computer languages, but also "binary" data, being the machine's representation of numbers, pixels in an image, or just about anything.

When Perl is processing "binary data", the programmer wants Perl to process "sequences of bytes". This is not a problem for Perl: because a byte has 256 possible values, it easily fits in Perl's much larger "logical character".

This document mostly explains the \texttt{how}. L<perlunitut> and L<perlunifaq> explain the \texttt{why}.

=head2 TERMINOLOGY

=head3 character

A character in the range 0 .. 2**32-1 (or more); what Perl's strings are made of.

=head3 byte

A character in the range 0..255;
a special case of a Perl character.

=head3 octet

8 bits of data, with ordinal values 0..255; term for bytes passed to or from a non-Perl context, such as a disk file, standard I/O stream, database, command-line argument, environment variable, socket etc.

=head1 THE PERL ENCODING API

=head2 Basic methods

=head3 encode

$octets  = encode(ENCODING, STRING[, CHECK])

Encodes the scalar value I<STRING> from Perl's internal form into I<ENCODING> and returns a sequence of octets. I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">. For CHECK, see L</"Handling Malformed Data">.

For example, to convert a string from Perl's internal format into ISO-8859-1, also known as Latin1:

    $octets = encode("iso-8859-1", $string);

B<CAVEAT>: When you run C<$octets = encode("utf8", $string)>}, then $octets I<might not be equal to> $string. Though both contain the same data, the UTF8 flag for $octets is I<always> off. When you encode anything, the UTF8 flag on the result is always off, even when it contains a completely valid utf8 string. See L</"The UTF8 flag"> below.

If the $string is C<undef>, then C<undef> is returned.

=head3 decode

$string = decode(ENCODING, OCTETS[, CHECK])

This function returns the string that results from decoding the scalar value I<OCTETS>, assumed to be a sequence of octets in I<ENCODING>, into Perl's internal form. The returns the resulting string. As with encode(), I<ENCODING> can be either a canonical name or an alias. For encoding names and aliases, see L</"Defining Aliases">; for I<CHECK>, see L</"Handling Malformed Data">.

For example, to convert ISO-8859-1 data into a string in Perl's internal format:
$string = decode("iso-8859-1", $octets);

B<CAVEAT>: When you run C<$string = decode("utf8", $octets)> then $string
I<might not be equal to> $octets. Though both contain the same data, the
UTF8 flag for $string is on unless $octets consists entirely of ASCII data
on ASCII machines or EBCDIC on EBCDIC machines. See L</"The UTF8 flag”>
below.

If the $string is C<undef>, then C<undef> is returned.

=head3 find_encoding

[$obj =] find_encoding(ENCODING)

Returns the I<encoding object> corresponding to I<ENCODING>. Returns
C<undef> if no matching I<ENCODING> is find. The returned object is
what does the actual encoding or decoding.

$utf8 = decode($name, $bytes);

is in fact

$utf8 = do {
    $obj = find_encoding($name);
    croak qq(encoding "$name" not found) unless ref $obj;
    $obj->decode($bytes);
};

with more error checking.

You can therefore save time by reusing this object as follows;

    my $enc = find_encoding("iso-8859-1");
    while(<>) {
        my $utf8 = $enc->decode($_);
        ... # now do something with $utf8;
    }

Besides L</decode> and L</encode>, other methods are
available as well. For instance, C<name()> returns the canonical
name of the encoding object.

    find_encoding("latin1")->name; # iso-8859-1

See L<Encode::Encoding> for details.

=head3 from_to
from_to($octets, FROM_ENC, TO_ENC [, CHECK])

Converts in-place data between two encodings. The data in $octets must be encoded as octets and not as characters in Perl's internal format. For example, to convert ISO-8859-1 data into Microsoft's CP1250 encoding:

from_to($octets, "iso-8859-1", "cp1250");

and to convert it back:

from_to($octets, "cp1250", "iso-8859-1");

Because the conversion happens in place, the data to be converted cannot be a string constant: it must be a scalar variable.

C<from_to()> returns the length of the converted string in octets on success, and C<undef> on error.

B<CAVEAT>: The following operations may look the same, but are not:

from_to($data, "iso-8859-1", "utf8"); #1
$data = decode("iso-8859-1", $data);  #2

Both #1 and #2 make $data consist of a completely valid UTF-8 string, but only #2 turns the UTF8 flag on. #1 is equivalent to:

$data = encode("utf8", decode("iso-8859-1", $data));

See L</"The UTF8 flag"> below.

Also note that:

from_to($octets, $from, $to, $check);

is equivalent to:

$octets = encode($to, decode($from, $octets), $check);

Yes, it does not respect the $check during decoding. It is deliberately done that way. If you need minute control, use C<decode> followed by C<encode> as follows:

$octets = encode($to, decode($from, $octets, $check_from), $check_to);

=head3 encode_utf8
$octets = encode_utf8($string);

Equivalent to C<$octets = encode("utf8", $string)>. The characters in $string are encoded in Perl's internal format, and the result is returned as a sequence of octets. Because all possible characters in Perl have a (loose, not strict) UTF-8 representation, this function cannot fail.

=head3 decode_utf8

$string = decode_utf8($octets [, CHECK]);

Equivalent to C<$string = decode("utf8", $octets [, CHECK])>. The sequence of octets represented by $octets is decoded from UTF-8 into a sequence of logical characters. Because not all sequences of octets are valid UTF-8, it is quite possible for this function to fail. For CHECK, see L</"Handling Malformed Data">.

=head2 Listing available encodings

use Encode;
@list = Encode->encodings();

Returns a list of canonical names of available encodings that have already been loaded. To get a list of all available encodings including those that have not yet been loaded, say:

@all_encodings = Encode->encodings(":all");

Or you can give the name of a specific module:

@with_jp = Encode->encodings("Encode::JP");

When "C<::>" is not in the name, "C<Encode::>" is assumed.

@ebcdic = Encode->encodings("EBCDIC");

To find out in detail which encodings are supported by this package, see L<Encode::Supported>.

=head2 Defining Aliases

To add a new alias to a given encoding, use:

use Encode;
use Encode::Alias;
define_alias(NEWNAME => ENCODING);
After that, `<NEWNAME>` can be used as an alias for `<ENCODING>`.
`<ENCODING>` may be either the name of an encoding or an
`<encoding object>`.

Before you do that, first make sure the alias is nonexistent using
`<resolve_alias()>`, which returns the canonical name thereof.
For example:

```
Encode::resolve_alias("latin1") eq "iso-8859-1"  # true
Encode::resolve_alias("iso-8859-12")   # false; nonexistent
Encode::resolve_alias($name) eq $name  # true if $name is canonical
```

`<resolve_alias()>` does not need `<use Encode::Alias>;` it can be
imported via `<use Encode qw(resolve_alias)>`.

See `<Encoding::Alias>` for details.

=head2 Finding IANA Character Set Registry names

The canonical name of a given encoding does not necessarily agree with
IANA Character Set Registry, commonly seen as `<Content-Type:
text/plain; charset=<WHATEVER>>`. For most cases, the canonical name
works, but sometimes it does not, most notably with "utf-8-strict".

As of `<Encode>` version 2.21, a new method `<mime_name()>` is therefore added.

```
use Encode;
my $enc = find_encoding("UTF-8");
warn $enc->name;       # utf-8-strict
warn $enc->mime_name; # UTF-8
```

See also: `<Encoding::Encoding>`

=head1 Encoding via PerlIO

If your perl supports `<PerlIO>` (which is the default), you can use a
`<PerlIO>` layer to decode and encode directly via a filehandle. The
following two examples are fully identical in functionality:

### Version 1 via PerlIO

```
open(INPUT,  "< :encoding(shiftjis)", $infile)
  || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :encoding(euc-jp)",  $outfile)
  || die "Can't open > $output for writing: $!";
while (<INPUT>) {  # auto decodes $_
    print OUTPUT;  # auto encodes $_
}
close(INPUT)  || die "can't close $infile: $!";
```
close(OUTPUT) || die "can't close $outfile: $!";

### Version 2 via from_to()
open(INPUT, "< :raw", $infile)
    || die "Can't open < $infile for reading: $!";
open(OUTPUT, "> :raw", $outfile)
    || die "Can't open > $output for writing: $!";

while (<INPUT>) {
    from_to($_, "shiftjis", "euc-jp", 1);  # switch encoding
    print OUTPUT;   # emit raw (but properly encoded) data
}
close(INPUT) || die "can't close $infile: $!";
close(OUTPUT) || die "can't close $outfile: $!";

In the first version above, you let the appropriate encoding layer
handle the conversion. In the second, you explicitly translate
from one encoding to the other.

Unfortunately, it may be that encodings are C<PerlIO>-savvy. You can check
to see whether your encoding is supported by C<PerlIO> by invoking the
C<perlio_ok> method on it:

    Encode::perlio_ok("hz");       # false
    find_encoding("euc-cn")->perlio_ok; # true wherever PerlIO is available

use Encode qw(perlio_ok);       # imported upon request
perlio_ok("euc-jp")

Fortunately, all encodings that come with C<Encode> core are C<PerlIO>-savvy
except for C<hz> and C<ISO-2022-kr>. For the gory details, see
L<Encoding> and L<PerlIO>.

=head1 Handling Malformed Data

The optional I<CHECK> argument tells C<Encode> what to do when
encountering malformed data. Without I<CHECK>, C<FB_DEFAULT>
(== 0) is assumed.

As of version 2.12, C<Encode> supports coderef values for C<CHECK>;
see below.

B<NOTE:> Not all encodings support this feature.
Some encodings ignore the I<CHECK> argument. For example,
L<Unicode> ignores I<CHECK> and it always croaks on error.

=head2 List of I<CHECK> values
If $\texttt{CHECK}$ is 0, encoding and decoding replace any malformed character with a substitution character. When you encode, $\texttt{SUBCHAR}$ is used. When you decode, the Unicode REPLACEMENT CHARACTER, code point $\text{U+FFFD}$, is used. If the data is supposed to be UTF-8, an optional lexical warning of warning category C\"utf8\" is given.

If $\texttt{CHECK}$ is 1, methods immediately die with an error message. Therefore, when $\texttt{CHECK}$ is 1, you should trap exceptions with C\{eval\}, unless you really want to let it C\{die\}.

If $\texttt{CHECK}$ is set to C\{Encode::FB_QUIET\}, encoding and decoding immediately return the portion of the data that has been processed so far when an error occurs. The data argument is overwritten with everything after that point; that is, the unprocessed portion of the data. This is handy when you have to call C\{decode\} repeatedly in the case where your source data may contain partial multi-byte character sequences, (that is, you are reading with a fixed-width buffer). Here's some sample code to do exactly that:

```perl
my($buffer, $string) = ("", "");
while (read($fh, $buffer, 256, length($buffer))) {
    $string .= decode($encoding, $buffer, Encode::FB_QUIET);
    # $buffer now contains the unprocessed partial character
}
```

This is the same as C\{FB_QUIET\} above, except that instead of being silent on errors, it issues a warning. This is handy for when you are debugging.
For encodings that are implemented by the `Encode::XS` module, `CHECK` puts `encode` and `decode` into `perlqq` fallback mode.

When you decode, `\x{HHH}` is inserted for a malformed character, where `HHH` is the hex representation of the octet that could not be decoded to utf8. When you encode, `\x{HHHH}` will be inserted, where `HHHH` is the Unicode code point (in any number of hex digits) of the character that cannot be found in the character repertoire of the encoding.

The HTML/XML character reference modes are about the same. In place of `\x{HHHH}`, HTML uses `&#NNN;` where `NNN` is a decimal number, and XML uses `&#xHHHH;` where `HHHH` is the hexadecimal number.

In `Encode` 2.10 or later, `LEAVE_SRC` is also implied.

=head3 The bitmask

These modes are all actually set via a bitmask. Here is how the `FB_XXX` constants are laid out. You can import the `FB_XXX` constants via `use Encode qw(fallbacks)`, and you can import the generic bitmask constants via `use Encode qw(fallback_all)`.

```
FB_DEFAULT FB_CROAK FB_QUIET FB_WARN FB_PERLQQ
DIE_ON_ERR 0x0001  X
WARN_ON_ERR 0x0002       X
RETURN_ON_ERR 0x0004  X  X
LEAVE_SRC  0x0008       X
PERLQQ    0x0100       X
HTMLCREF  0x0200       X
XMLCREF   0x0400       X
```

=head3 LEAVE_SRC

Encode::LEAVE_SRC

If the `LEAVE_SRC` bit is not set but `CHECK` is set, then the source string to `encode()` or `decode()` will be overwritten in place.

If you're not interested in this, then bitwise-OR it with the bitmask.

=head2 coderef for CHECK
As of C<Encode> 2.12, C<CHECK> can also be a code reference which takes the ordinal value of the unmapped character as an argument and returns a string that represents the fallback character. For instance:

```perl
$ascii = encode("ascii", $utf8, sub{ sprintf "<U+%04X>", shift });
```

Acts like C<FB_PERLQQ> but U+I<XXXX> is used instead of C\{I<XXXX>\}.

=head1 Defining Encodings

To define a new encoding, use:

```perl
use Encode qw(define_encoding);
define_encoding($object, CANONICAL_NAME [, alias...]);
```

I<CANONICAL_NAME> will be associated with I<$object>. The object should provide the interface described in L<Encode::Encoding>. If more than two arguments are provided, additional arguments are considered aliases for I<$object>.

See L<Encode::Encoding> for details.

=head1 The UTF8 flag

Before the introduction of Unicode support in Perl, The C<eq> operator just compared the strings represented by two scalars. Beginning with Perl 5.8, C<eq> compares two strings with simultaneous consideration of I<the UTF8 flag>. To explain why we made it so, I quote from page 402 of I<Programming Perl, 3rd ed.>

=over 2
=item Goal #1:

Old byte-oriented programs should not spontaneously break on the old byte-oriented data they used to work on.

=item Goal #2:

Old byte-oriented programs should magically start working on the new character-oriented data when appropriate.

=item Goal #3:

Programs should run just as fast in the new character-oriented mode as in the old byte-oriented mode.
Goal #4: Perl should remain one language, rather than forking into a byte-oriented Perl and a character-oriented Perl.

When I wrote Programming Perl, 3rd ed. was written, not even Perl 5.6.0 had been born yet, many features documented in the book remained unimplemented for a long time. Perl 5.8 corrected much of this, and the introduction of the UTF8 flag is one of them. You can think of there being two fundamentally different kinds of strings and string-operations in Perl: one a byte-oriented mode for when the internal UTF8 flag is off, and the other a character-oriented mode for when the internal UTF8 flag is on.

Here is how C<Encode> handles the UTF8 flag.

When you C<encode>, the resulting UTF8 flag is always B<off>.

When you C<decode>, the resulting UTF8 flag is B<on>--I<unless> you can unambiguously represent data. Here is what we mean by "unambiguously". After C<$utf8 = decode("foo", $octet)>,

<table>
<thead>
<tr>
<th>When $octet is...</th>
<th>The UTF8 flag in $utf8 is</th>
</tr>
</thead>
<tbody>
<tr>
<td>In ASCII only (or EBCDIC only)</td>
<td>OFF</td>
</tr>
<tr>
<td>In ISO-8859-1</td>
<td>ON</td>
</tr>
<tr>
<td>In any other Encoding</td>
<td>ON</td>
</tr>
</tbody>
</table>

As you see, there is one exception: in ASCII. That way you can assume Goal #1. And with C<Encode>, Goal #2 is assumed but you still have to be careful in the cases mentioned in the B<CAVEAT> paragraphs above.

This UTF8 flag is not visible in Perl scripts, exactly for the same reason you cannot (or rather, you I<don't have to>) see whether a scalar contains a string, an integer, or a floating-point number. But you can still peek and poke these if you will. See the next section.

Messing with Perl's Internals
The following API uses parts of Perl's internals in the current implementation. As such, they are efficient but may change in a future release.

=head3 is_utf8

is_utf8(STRING [, CHECK])

[INTERNAL] Tests whether the UTF8 flag is turned on in the I<String>. If I<CHECK> is true, also checks whether I<String> contains well-formed UTF-8. Returns true if successful, false otherwise.

As of Perl 5.8.1, L<utf8> also has the C<utf8::is_utf8> function.

=head3 _utf8_on

_utf8_on(STRING)

[INTERNAL] Turns the I<String>’s internal UTF8 flag B<on>. The I<String> is I<not> checked for containing only well-formed UTF-8. Do not use this unless you I<know with absolute certainty> that the STRING holds only well-formed UTF-8. Returns the previous state of the UTF8 flag (so please don’t treat the return value as indicating success or failure), or C<undef> if I<String> is not a string.

B<NOTE>: For security reasons, this function does not work on tainted values.

=head3 _utf8_off

_utf8_off(STRING)

[INTERNAL] Turns the I<String>’s internal UTF8 flag B<off>. Do not use frivolously. Returns the previous state of the UTF8 flag, or C<undef> if I<String> is not a string. Do not treat the return value as indicative of success or failure, because that isn’t what it means: it is only the previous setting.

B<NOTE>: For security reasons, this function does not work on tainted values.

=head1 UTF-8 vs. utf8 vs. UTF8

....We now view strings not as sequences of bytes, but as sequences of numbers in the range 0 .. 2**32-1 (or in the case of 64-bit computers, 0 .. 2**64-1) -- Programming Perl, 3rd ed.

That has historically been Perl’s notion of UTF-8, as that is how UTF-8 was first conceived by Ken Thompson when he invented it. However, thanks to
later revisions to the applicable standards, official UTF-8 is now rather stricter than that. For example, its range is much narrower (0 .. 0x10_FFFF to cover only 21 bits instead of 32 or 64 bits) and some sequences are not allowed, like those used in surrogate pairs, the 31 non-character code points 0xFD0 .. 0xFD0, the last two code points in any plane (0xI<XX>_FFF and 0xI<XX>_FFFF), all non-shortest encodings, etc.

The former default in which Perl would always use a loose interpretation of UTF-8 has now been overruled:

From: Larry Wall <larry@wall.org>
Date: December 04, 2004 11:51:58 JST
To: perl-unicode@perl.org
Subject: Re: Make Encode.pm support the real UTF-8
Message-Id: <20041204025158.GA28754@wall.org>

On Fri, Dec 03, 2004 at 10:12:12PM +0000, Tim Bunce wrote:
: I've no problem with 'utf8' being perl's unrestricted utf8 encoding,
: but "UTF-8" is the name of the standard and should give the
: corresponding behaviour.

For what it's worth, that's how I've always kept them straight in my head.

Also for what it's worth, Perl 6 will mostly default to strict but make it easy to switch back to lax.

Larry

Got that? As of Perl 5.8.7, B"UTF-8" means UTF-8 in its current sense, which is conservative and strict and security-conscious, whereas B"utf8" means UTF-8 in its former sense, which was liberal and loose and lax. C<Encode> version 2.10 or later thus groks this subtle but critically important distinction between C"UTF-8" and C"utf8".

encode("utf8", "$\{FFFF_FFFF\}"", 1); # okay
encode("UTF-8", "$\{FFFF_FFFF\}"", 1); # croaks

In the C<Encode> module, C"UTF-8" is actually a canonical name for C"utf-8-strict". That hyphen between the C"UTF" and the C"8" is critical; without it, C<Encode> goes "liberal" and (perhaps overly-)permissive:

find_encoding("UTF-8")->name # is 'utf-8-strict'
find_encoding("utf-8")->name # ditto. names are case insensitive
find_encoding("utf8")->name # ditto. "_" are treated as ":-
find_encoding("UTF8")->name # is 'utf8'.

Perl's internal UTF8 flag is called "UTF8", without a hyphen. It indicates
whether a string is internally encoded as "utf8", also without a hyphen.

=head1 SEE ALSO

L<Encode::Encoding>,
L<Encode::Supported>,
L<Encode::PerlIO>,
L<encoding>,
L<perlebcdic>,
L<perlfunc/open>,
L<perlunicode>, L<perluniintro>, L<perlunifaq>, L<perlunitut>
L<utf8>,
the Perl Unicode Mailing List L<http://lists.perl.org/list/perl-unicode.html>

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This project was originated by the late Nick Ing-Simmons and later
maintained by Dan Kogai I<< <dankogai@cpan.org> >>. See AUTHORS
for a full list of people involved. For any questions, send mail to
I<< <perl-unicode@perl.org> >> so that we can all share.

While Dan Kogai retains the copyright as a maintainer, credit
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=cut

Found in path(s):
* /opt/cola/permits/1148333398_1619430824.65/0/perl-Encode-2.51-7.el7-1.src.rpm-cosi-expand-archive-sJvd8DsV/Encode-2.51.tar.gz-cosi-expand-archive-97F0Dyrh/Encode-2.51/Encode.pm

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* /opt/cola/permits/1128777990_1612054951.89/0/asm-all-3-3-1-sources-4-jar/org/objectweb/asm/util/ASMifiable.java

1.2099 jboss-as-host-controller 7.3.0.Final-redhat-14

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1.2100 sqlite 3.22.0-1ubuntu0.4

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

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The header `<boost/mp11/mpl.hpp>`, when included, defines the necessary support infrastructure for `mp_list` and `std::tuple` to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.

It's also possible to only enable support for `mp_list` by including `<boost/mp11/mp11_list.hpp>`, and for `std::tuple` by including `<boost/mp11/mp11_tuple.hpp>`. This may be required because some libraries, such as Boost.Fusion, contain their own MPL support for `std::tuple`, which conflicts with Mp11’s one.
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* javax.servlet:javax.servlet-api
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* java.sun.security.ssl

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
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org.mortbay.jasper:apache-jsp
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org.apache.tomcat:tomcat-util-scan
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org.eclipse.jetty.toolchain:jetty-schemas

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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NAME
Exporter - Implements default import method for modules

SYNOPSIS
In module YourModule.pm:

    package YourModule;
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

or

    package YourModule;
    use Exporter 'import'; # gives you Exporter's import() method directly
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use "YourModule":

    use YourModule qw(frobnicate);  # import listed symbols
    frobnicate ($left, $right)      # calls YourModule::frobnicate

Take a look at "Good Practices" for some variants you will like to use
DESCRIPTION

The Exporter module implements an "import" method which allows a module
to export functions and variables to its users' namespaces. Many modules
use Exporter rather than implementing their own "import" method because
Exporter provides a highly flexible interface, with an implementation
optimised for the common case.

Perl automatically calls the "import" method when processing a "use"
statement for a module. Modules and "use" are documented in perlfunc and
perlmod. Understanding the concept of modules and how the "use"
statement operates is important to understanding the Exporter.

How to Export

The arrays @EXPORT and @EXPORT_OK in a module hold lists of symbols that
are going to be exported into the users name space by default, or which
they can request to be exported, respectively. The symbols can represent
functions, scalars, arrays, hashes, or typeglobs. The symbols must be
given by full name with the exception that the ampersand in front of a
function is optional, e.g.

    @EXPORT    = qw(afunc $scalar @array);   # afunc is a function
    @EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the
ampersand, as the implementation is faster this way.

Selecting What To Export

Do not export method names!

Do not export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export try
to use @EXPORT_OK in preference to @EXPORT and avoid short or common
symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the
module using the "YourModule::item_name" (or "$blessed_ref->method")
syntax. By convention you can use a leading underscore on names to
informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

    my $subref = sub { ... }
    $subref->(@args);   # Call it as a function
    $obj->$subref(@args); # Use it as a method
However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it’s just a collection of functions then @EXPORT_OK anything but use @EXPORT with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in perlmod.

How to Import
In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

"use YourModule;"
This imports all the symbols from YourModule’s @EXPORT into the namespace of the "use" statement.

"use YourModule ();"
This causes perl to load your module but does not import any symbols.

"use YourModule qw(...);"
This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your @EXPORT or @EXPORT_OK, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.

Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

Advanced features
Specialised Import Lists
If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

![name] This name only
[!]:DEFAULT All names in @EXPORT
[!]:tag All names in $EXPORT_TAGS{tag} anonymous list
[!]/pattern/ All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra
names in addition to the default set you will still need to include
:DEFAULT explicitly.

e.g., Module.pm defines:

```perl
@EXPORT      = qw(A1 A2 A3 A4 A5);
@EXPORT_OK   = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK.
Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(!/^\[AP\]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a
leading ^, e.g., "/^EXIT/" rather than "/EXIT/".

You can say "BEGIN { $Exporter::Verbose=1 }" to see how the
specifications are being processed and what is actually being imported
into modules.

Exporting without using Exporter's import method
Exporter has a special method, 'export_to_level' which is used in
situations where you can't directly call Exporter's import method. The
export_to_level method looks like:

```perl
MyPackage->export_to_level($where_to_export, $package, @what_to_export);
```

where $where_to_export is an integer telling how far up the calling
stack to export your symbols, and @what_to_export is an array telling
what symbols *to* export (usually this is @_). The $package argument is
currently unused.

For example, suppose that you have a module, A, which already has an
import function:

```perl
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);
```
sub import
{
  $A::b = 1;  # not a very useful import method
}

and you want to Export symbol $A::b back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

package A;
@ISA = qw(Exporter);
@EXPORT_OK = qw($b);

sub import
{
  $A::b = 1;
  A->export_to_level(1, @_);
}

This will export the symbols one level 'above' the current package - ie: to the program or module that used package A.

Note: Be careful not to modify @_ at all before you call export_to_level - or people using your package will get very unexplained results!

Exporting without inheriting from Exporter
By including Exporter in your @ISA you inherit an Exporter's import() method but you also inherit several other helper methods which you probably don't want. To avoid this you can do

package YourModule;
use Exporter qw( import );

which will export Exporter's own import() method into YourModule. Everything will work as before but you won't need to include Exporter in @YourModule::ISA.

Note: This feature was introduced in version 5.57 of Exporter, released with perl 5.8.3.

Module Version Checking
The Exporter module will convert an attempt to import a number from a module into a call to "$module_name->require_version($value)". This can be used to validate that the version of the module being used is greater than or equal to the required version.

The Exporter module supplies a default "require_version" method which
checks the value of $VERSION in the exporting module.

Since the default "require_version" method treats the $VERSION number as a simple numeric value it will regard version 1.10 as lower than 1.9. For this reason it is strongly recommended that you use numbers with at least two decimal places, e.g., 1.09.

Managing Unknown Symbols
In some situations you may want to prevent certain symbols from being exported. Typically this applies to extensions which have functions or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed in the @EXPORT_FAIL array.

If a module attempts to import any of these symbols the Exporter will give the module an opportunity to handle the situation before generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

@failed_symbols = $module_name->export_fail(@failed_symbols);

If the "export_fail" method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default "export_fail" method which simply returns the list unchanged.

Uses for the "export_fail" method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into @EXPORT_FAIL by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

Tag Handling Utility Functions
Since the symbols listed within %EXPORT_TAGS must also appear in either @EXPORT or @EXPORT_OK, two utility functions are provided which allow you to easily add tagged sets of symbols to @EXPORT or @EXPORT_OK:

%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to @EXPORT or @EXPORT_OK unchanged but will trigger a warning (with "-w") to avoid misspelt tags names being silently added to @EXPORT or @EXPORT_OK. Future versions may make this a fatal error.
Generating combined tags
If several symbol categories exist in %EXPORT_TAGS, it's usually useful
to create the utility "::all" to simplify "use" statements.

The simplest way to do this is:

```perl
%EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);
```

# add all the other "class" tags to the "all" class,
# deleting duplicates
{ my %seen;
    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

CGI.pm creates an "::all" tag which contains some (but not really all) of
its categories. That could be done with one small change:

```perl
# add some of the other "class" tags to the "all" class,
# deleting duplicates
{ my %seen;
    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach qw/html2 html3 netscape form cgi internal/;
}
```

Note that the tag names in %EXPORT_TAGS don't have the leading ':'.

"AUTOLOAD"ed Constants
Many modules make use of "AUTOLOAD"ing for constant subroutines to avoid
having to compile and waste memory on rarely used values (see perlsub
for details on constant subroutines). Calls to such constant subroutines
are not optimized away at compile time because they can't be checked at
compile time for constancy.

Even if a prototype is available at compile time, the body of the
subroutine is not (it hasn't been "AUTOLOAD"ed yet). perl needs to
examine both the "()" prototype and the body of a subroutine at compile
time to detect that it can safely replace calls to that subroutine with
the constant value.

A workaround for this is to call the constants once in a "BEGIN" block:
package My;

use Socket;

foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
BEGIN { SO_LINGER }
foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.

This forces the "AUTOLOAD" for "SO_LINGER" to take place before
SO_LINGER is encountered later in "My" package.

If you are writing a package that "AUTOLOAD"s, consider forcing an
"AUTOLOAD" for any constants explicitly imported by other packages or
which are usually used when your package is "use"d.

Good Practices
Declaring @EXPORT_OK and Friends
When using "Exporter" with the standard "strict" and "warnings" pragmas,
the "our" keyword is needed to declare the package variables @EXPORT_OK,
@EXPORT, @ISA, etc.

    our @ISA = qw(Exporter);
    our @EXPORT_OK = qw(munge frobnicate);

If backward compatibility for Perls under 5.6 is important, one must
write instead a "use vars" statement.

    use vars qw(@ISA @EXPORT_OK);
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);

Playing Safe
There are some caveats with the use of runtime statements like "require
Exporter" and the assignment to package variables, which can very subtle
for the unaware programmer. This may happen for instance with mutually
recursive modules, which are affected by the time the relevant
constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to
use "BEGIN" blocks. So the first part of the "SYNOPSIS" code could be
rewritten as:

package YourModule;

    use strict;
    use warnings;

    our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}

The "BEGIN" will assure that the loading of Exporter.pm and the assignments to @ISA and @EXPORT_OK happen immediately, leaving no room for something to get awry or just plain wrong.

With respect to loading "Exporter" and inheriting, there are alternatives with the use of modules like "base" and "parent".

    use base qw( Exporter );
    # or
    use parent qw( Exporter );

Any of these statements are nice replacements for "BEGIN { require Exporter; @ISA = qw(Exporter); }" with the same compile-time effect. The basic difference is that "base" code interacts with declared "fields" while "parent" is a streamlined version of the older "base" code to just establish the IS-A relationship.

For more details, see the documentation and code of base and parent.

Another thorough remedy to that runtime vs. compile-time trap is to use Exporter::Easy, which is a wrapper of Exporter that allows all boilerplate code at a single gulp in the use statement.

    use Exporter::Easy ( OK => [ qw(munge frobnicate) ],
                      );
    # @ISA setup is automatic
    # all assignments happen at compile time

What not to Export
You have been warned already in "Selecting What To Export" to not export:

* method names (because you don't need to and that's likely to not do what you want),

* anything by default (because you don't want to surprise your users... badly)

* anything you don't need to (because less is more)

There's one more item to add to this list. Do not export variable names.
Just because "Exporter" lets you do that, it does not mean you should.

@EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

SEE ALSO
"Exporter" is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

Exporter::Easy
Exporter::Lite
Exporter::Renaming
Exporter::Tidy
Sub::Exporter / Sub::Installer
Per6::Export / Per6::Export::Attrs

LICENSE
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=head1 NAME

Exporter - Implements default import method for modules

=head1 SYNOPSIS

In module F<YourModule.pm>:

package YourModule;
require Exporter;
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate); # symbols to export on request

or
package YourModule;

use Exporter 'import';  # gives you Exporter's import() method directly

@EXPORT_OK = qw(munge frobnicate);  # symbols to export on request

In other files which wish to use C<YourModule>:

    use YourModule qw(frobnicate);  # import listed symbols
    frobnicate ($left, $right)      # calls YourModule::frobnicate

Take a look at L</Good Practices> for some variants you will like to use in modern Perl code.

=head1 DESCRIPTION

The Exporter module implements an C<import> method which allows a module to export functions and variables to its users' namespaces. Many modules use Exporter rather than implementing their own C<import> method because Exporter provides a highly flexible interface, with an implementation optimised for the common case.

Perl automatically calls the C<import> method when processing a C<use> statement for a module. Modules and C<use> are documented in L<perlfunc> and L<perlmod>. Understanding the concept of modules and how the C<use> statement operates is important to understanding the Exporter.

=head2 How to Export

The arrays C<@EXPORT> and C<@EXPORT_OK> in a module hold lists of symbols that are going to be exported into the users name space by default, or which they can request to be exported, respectively. The symbols can represent functions, scalars, arrays, hashes, or typeglobs. The symbols must be given by full name with the exception that the ampersand in front of a function is optional, e.g.

    @EXPORT    = qw(afunc $scalar @array);   # afunc is a function
    @EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc

If you are only exporting function names it is recommended to omit the ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export
try to use C<@EXPORT_OK> in preference to C<@EXPORT> and avoid short or common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the module using the C<YourModule::item_name> (or C<@$blessed_ref->method >>) syntax. By convention you can use a leading underscore on names to informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

my $subref = sub { ... };  
$subref->(@args);            # Call it as a function
$obj->$subref(@args);       # Use it as a method

However if you use them for methods it is up to you to figure out how to make inheritance work.)

As a general rule, if the module is trying to be object oriented then export nothing. If it's just a collection of functions then C<@EXPORT_OK> anything but use C<@EXPORT> with caution. For function and method names use barewords in preference to names prefixed with ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's C<@EXPORT> into the namespace of the C<use> statement.

=item C<use YourModule ();>

This causes perl to load your module but does not import any symbols.

=item C<use YourModule qw(...);>

This imports only the symbols listed by the caller into their namespace. All listed symbols must be in your C<@EXPORT> or C<@EXPORT_OK>, else an error occurs. The advanced export features of Exporter are accessed like this, but with list entries that are syntactically distinct from symbol names.
Unless you want to use its advanced features, this is probably all you need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then the list is treated as a series of specifications which either add to or delete from the list of names to import. They are processed left to right. Specifications are in the form:

- `[][!]name` This name only
- `[][!]:DEFAULT` All names in @EXPORT
- `[][!]:tag` All names in $EXPORT_TAGS{tag} anonymous list
- `[][!/pattern/` All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the list of names to import. If the first specification is a deletion it is treated as though preceded by :DEFAULT. If you just want to import extra names in addition to the default set you will still need to include :DEFAULT explicitly.

E.g., F<Module.pm> defines:

```perl
@EXPORT    = qw(A1 A2 A3 A4 A5);
@EXPORT_OK = qw(B1 B2 B3 B4 B5);
%EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);
```

Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

```perl
use Module qw(:DEFAULT :T2 !B3 A3);
```

Other examples include:

```perl
use Socket qw(!/^/[AP]F_/ !SOMAXCONN !SOL_SOCKET);
use POSIX qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 } to see how the
specifications are being processed and what is actually being imported into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations where you can't directly call Exporter's import method. The export_to_level method looks like:

```perl
MyPackage->export_to_level(
$where_to_export, $package, @what_to_export
);
```

where C<$where_to_export> is an integer telling how far up the calling stack to export your symbols, and C<@what_to_export> is an array telling what symbols *to* export (usually this is C<@_>). The C<$package> argument is currently unused.

For example, suppose that you have a module, A, which already has an import function:

```perl
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;  # not a very useful import method
}
```

and you want to Export symbol C<$A::b> back to the module that called package A. Since Exporter relies on the import method to work, via inheritance, as it stands Exporter::import() will never get called. Instead, say the following:

```perl
package A;

@ISA = qw(Exporter);
@EXPORT_OK = qw ($b);

sub import
{
    $A::b = 1;
    A->export_to_level(1, @_);
}
```

This will export the symbols one level 'above' the current package - ie: to
the program or module that used package A.

Note: Be careful not to modify C<@_> at all before you call export_to_level
- or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method
but you also inherit several other helper methods which you probably don't
want. To avoid this you can do

package YourModule;
use Exporter qw( import );

which will export Exporter's own import() method into YourModule.
Everything will work as before but you won't need to include Exporter in
C<@YourModule::ISA>.

Note: This feature was introduced in version 5.57
of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a
module into a call to C<< $module_name->VERSION($value) >>. This can
be used to validate that the version of the module being used is
greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that
simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION>
existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as
a simple numeric value it will regard version 1.10 as lower than
1.9. For this reason it is strongly recommended that you use numbers
with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being
exported. Typically this applies to extensions which have functions
or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed
in the C<@EXPORT_FAIL> array.

If a module attempts to import any of these symbols the Exporter
will give the module an opportunity to handle the situation before
generating an error. The Exporter will call an export_fail method with a list of the failed symbols:

    @failed_symbols = $module_name-&gt;export_fail(@failed_symbols);

If the C&lt;export_fail&gt; method returns an empty list then no error is recorded and all the requested symbols are exported. If the returned list is not empty then an error is generated for each symbol and the export fails. The Exporter provides a default C&lt;export_fail&gt; method which simply returns the list unchanged.

Uses for the C&lt;export_fail&gt; method include giving better error messages for some symbols and performing lazy architectural checks (put more symbols into C&lt;@EXPORT_FAIL&gt; by default and then take them out if someone actually tries to use them and an expensive check shows that they are usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within C&lt;%EXPORT_TAGS&gt; must also appear in either C&lt;@EXPORT&gt; or C&lt;@EXPORT_OK&gt;, two utility functions are provided which allow you to easily add tagged sets of symbols to C&lt;@EXPORT&gt; or C&lt;@EXPORT_OK&gt;:

    %EXPORT_TAGS = (foo =&gt; [qw(aa bb cc)], bar =&gt; [qw(aa cc dd)]);

    Exporter::export_tags('foo');     # add aa, bb and cc to @EXPORT
    Exporter::export_ok_tags('bar');  # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to C&lt;@EXPORT&gt; or C&lt;@EXPORT_OK&gt; unchanged but will trigger a warning (with C&lt;-w&gt;) to avoid misspelt tags names being silently added to C&lt;@EXPORT&gt; or C&lt;@EXPORT_OK&gt;. Future versions may make this a fatal error.

=head2 Generating Combined Tags

If several symbol categories exist in C&lt;%EXPORT_TAGS&gt;, it's usually useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

    %EXPORT_TAGS = (foo =&gt; [qw(aa bb cc)], bar =&gt; [qw(aa cc dd)]);
    # add all the other ":class" tags to the ":all" class,
    # deleting duplicates
    {
        my %seen;
        push @{$EXPORT_TAGS{all}},
    }
grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
}

F<CGI.pm> creates an ":all" tag which contains some (but not really all) of its categories. That could be done with one small change:

# add some of the other ":class" tags to the ":all" class,
# deleting duplicates
{
    my %seen;
    push @{$EXPORT_TAGS{all}},
        grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
    foreach qw/html2 html3 netscape form cgi internal/;
}

Note that the tag names in C<%EXPORT_TAGS> don't have the leading ':'.

=head2 C<AUTOLOAD>ed Constants

Many modules make use of C<AUTOLOAD>ing for constant subroutines to avoid having to compile and waste memory on rarely used values (see L<perlsub> for details on constant subroutines). Calls to such constant subroutines are not optimized away at compile time because they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the subroutine is not (it hasn't been C<AUTOLOAD>ed yet). perl needs to examine both the C<() prototype and the body of a subroutine at compile time to detect that it can safely replace calls to that subroutine with the constant value.

A workaround for this is to call the constants once in a C<BEGIN> block:

    package My ;
    use Socket ;
    foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
    BEGIN { SO_LINGER }  
    foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.

This forces the C<AUTOLOAD> for C<SO_LINGER> to take place before SO_LINGER is encountered later in C<My> package.

If you are writing a package that C<AUTOLOAD>s, consider forcing an C<AUTOLOAD> for any constants explicitly imported by other packages.
or which are usually used when your package is used.

=head1 Good Practices

=head2 Declaring `@EXPORT_OK` and Friends

When using `<Exporter>` with the standard `<strict>` and `<warnings>` pragmas, the `<our>` keyword is needed to declare the package variables `<@EXPORT_OK>, `<@EXPORT>, `<@ISA>, etc.

```perl
our @ISA = qw(Exporter);
our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perls under 5.6 is important, one must write instead a `<use vars>` statement.

```perl
use vars qw(@ISA @EXPORT_OK);
@ISA = qw(Exporter);
@EXPORT_OK = qw(munge frobnicate);
```

=head2 Playing Safe

There are some caveats with the use of runtime statements like `<require Exporter>` and the assignment to package variables, which can very subtle for the unaware programmer. This may happen for instance with mutually recursive modules, which are affected by the time the relevant constructions are executed.

The ideal (but a bit ugly) way to never have to think about that is to use `<BEGIN>` blocks. So the first part of the `<SYNOPSIS>` code could be rewritten as:

```perl
package YourModule;

use strict;
use warnings;

our (@ISA, @EXPORT_OK);
BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
}
```

The `<BEGIN>` will assure that the loading of `Exporter.pm` and the assignments to `<@ISA> and `<@EXPORT_OK>` happen immediately, leaving no room for something to get awry
or just plain wrong.

With respect to loading C<Exporter> and inheriting, there
are alternatives with the use of modules like C<base> and C<parent>.

    use base qw( Exporter );
    # or
    use parent qw( Exporter );

Any of these statements are nice replacements for
C<BEGIN { require Exporter; @ISA = qw(Exporter); }>
with the same compile-time effect. The basic difference
is that C<base> code interacts with declared C<fields>
while C<parent> is a streamlined version of the older
C<base> code to just establish the IS-A relationship.

For more details, see the documentation and code of
L<base> and L<parent>.

Another thorough remedy to that runtime
vs. compile-time trap is to use L<Exporter::Easy>,
which is a wrapper of Exporter that allows all
boilerplate code at a single gulp in the
use statement.

    use Exporter::Easy (     
        OK => [ qw(munge frobnicate) ],
    );
    # @ISA setup is automatic
    # all assignments happen at compile time

=head2 What Not to Export

You have been warned already in L>Selecting What to Export>
to not export:

=over 4

=item *

method names (because you don't need to
and that's likely to not do what you want),

=item *

anything by default (because you don't want to surprise your users...
There's one more item to add to this list. Do not export variable names. Just because `Exporter` lets you do that, it does not mean you should.

```perl
@EXPORT_OK = qw( $svar @avar %hvar ); # DON'T!
```

Exporting variables is not a good idea. They can change under the hood, provoking horrible effects at-a-distance, that are too hard to track and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide settings, it is best instead to provide accessors as subroutines or class methods instead.

=head1 SEE ALSO

`Exporter` is definitely not the only module with symbol exporter capabilities. At CPAN, you may find a bunch of them. Some are lighter. Some provide improved APIs and features. Peek the one that fits your needs. The following is a sample list of such modules.

- Exporter::Easy
- Exporter::Lite
- Exporter::Renaming
- Exporter::Tidy
- Sub::Exporter / Sub::Installer
- Perl6::Export / Perl6::Export::Attrs

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---
abstract: 'Implements default import method for modules'
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Exporter
no_index:
directory:
  - t
  - inc
recommends:
  Test::Pod: 1.18
  Test::Pod::Coverage: 1.04
requires:
  Carp: 1.05
resources:
  bugtracker: http://rt.perl.org/perlbug/
  license: http://dev.perl.org/licenses/
  repository: http://perl5.git.perl.org/perl.git/tree/HEAD:/lib
  x_MailingList: http://lists.perl.org/list/perl5-porters.html
  version: 5.68

Found in path(s):
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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1.2123 grep 3.1 2build1

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```

### 1.2124 jbossservletapi 1.0.0.Final

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* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/http/HttpServletResponse.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/ServletRequest.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/http/HttpSessionActivationListener.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/ServletResponseWrapper.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/ServletRequestWrapper.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/http/HttpSessionListener.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/http/HttpSessionBindingEvent.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/FilterChain.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/ServletRequestAttributeEvent.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/Filter.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/Servlet.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/ServletResponse.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/SingleThreadModel.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/ServletException.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/GenericServlet.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/http/HttpSessionAttributeListener.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/http/HttpServlet.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/UnavailableException.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources.jar/javax/servlet/http/HttpUtils.java
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* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources-jar/javax/servlet/http/HttpServletRequestWrapper.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources-jar/javax/servlet/ServletRequestAttributeListener.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources-jar/javax/servlet/http/HttpSessionContext.java
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* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources-jar/javax/servlet/http/Cookie.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources-jar/javax/servlet/http/HttpSessionBindingListener.java
* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources-jar/javax/servlet/FilterConfig.java
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* /opt/ws_local/PERMITS_SQL/1077227880_1596781939.12/0/jboss-servlet-api-2-5-spec-1-0-0-final-sources-jar/javax/servlet/ServletContextListener.java

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threads::shared - Perl extension for sharing data structures between threads

This document describes threads::shared version 1.43

use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone({'foo' => [qw/foo bar baz/]});

$hsh{'foo'} = $scalar_value;
$hsh{'bar'} = $shared_ref_value;
$hsh{'baz'} = shared_clone($non_shared_ref_value);
$hsh{'quiz'} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone([ {} [ ] ]);
cond_timedwait($scalar, time() + 30);
cond_broadcast(@array);
cond_signal(%hash);

my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time() + 30, $lockvar);

=head1 DESCRIPTION

By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the L<threads> module.

This module supports the sharing of the following data types only: scalars and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>, C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal> and C<cond_broadcast>

Note that if this module is imported when L<threads> has not yet been loaded, then these functions all become no-ops. This makes it possible to write modules that will work in both threaded and non-threaded environments.

=head1 FUNCTIONS

=over 4

=item share VARIABLE

C<share> takes a variable and marks it as shared:

my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

C<share> will return the shared rvalue, but always as a reference.

Variables can also be marked as shared at compile time by using the C<shared> attribute:

my ($var, %hash, @array) :shared;
Shared variables can only store scalars, refs of shared variables, or refs of shared data (discussed in next section):

my ($var, %hash, @array) :shared;
my $bork;

# Storing scalars
$var = 1;
$hash{'foo'} = 'bar';
$array[0] = 1.5;

# Storing shared refs
$var = %hash;
$hash{'ary'} = @array;
$array[1] = $var;

# The following are errors:
#   $var = $bork;                    # ref of non-shared variable
#   $hash{'bork'} = [] ;               # non-shared array ref
#   push(@array, { 'x' => 1 });       # non-shared hash ref

=item shared_clone REF

C<shared_clone> takes a reference, and returns a shared version of its argument, performing a deep copy on any non-shared elements. Any shared elements in the argument are used as is (i.e., they are not cloned).

my $cpy = shared_clone({'foo' => ['foo bar baz']});

Object status (i.e., the class an object is blessed into) is also cloned.

my $obj = {'foo' => ['foo bar baz']};
bless($obj, 'Foo');
my $cpy = shared_clone($obj);
print(ref($cpy), "\n");  # Outputs 'Foo'

For cloning empty array or hash refs, the following may also be used:

$s1 = &share([]);   # Same as $var = shared_clone([]);
$s2 = &share();     # Same as $var = shared_clone();

Not all Perl data types can be cloned (e.g., globs, code refs). By default, C<shared_clone> will L<croak|Carp> if it encounters such items. To change this behaviour to a warning, then set the following:

$threads::shared::clone_warn = 1;
In this case, `C<undef>` will be substituted for the item to be cloned. If set to zero:

```perl
$threads::shared::clone_warn = 0;
```

then the `C<undef>` substitution will be performed silently.

```perl
=item is_shared VARIABLE

C<is_shared> checks if the specified variable is shared or not. If shared, returns the variable's internal ID (similar to `{refaddr}::refaddr EXPR`). Otherwise, returns `C<undef>`.

```perl
if (is_shared($var)) {
    print("$var is shared\n");
} else {
    print("$var is not shared\n");
}
```

When used on an element of an array or hash, `C<is_shared>` checks if the specified element belongs to a shared array or hash. (It does not check the contents of that element.)

```perl
my %hash :shared;
if (is_shared(%hash)) {
    print("%hash is shared\n");
}
```

```perl
$hash{'elem'} = 1;
if (is_shared($hash{'elem'})) {
    print("$hash{'elem'} is in a shared hash\n");
}
```

```perl
=item lock VARIABLE

C<lock> places a `B<advisory>` lock on a variable until the lock goes out of scope. If the variable is locked by another thread, the `C<lock>` call will block until it's available. Multiple calls to `C<lock>` by the same thread from within dynamically nested scopes are safe -- the variable will remain locked until the outermost lock on the variable goes out of scope.

C<lock> follows references exactly `I<one>` level:

```perl
my %hash :shared;
my $ref = \%hash;
lock($ref);  # This is equivalent to lock(%hash)
```

Note that you cannot explicitly unlock a variable; you can only wait for the
lock to go out of scope. This is most easily accomplished by locking the variable inside a block.

my $var :shared;
{
    lock($var);
    # $var is locked from here to the end of the block
    ...
}
# $var is now unlocked

As locks are advisory, they do not prevent data access or modification by another thread that does not itself attempt to obtain a lock on the variable.

You cannot lock the individual elements of a container variable:

my %hash :shared;
$hash{"foo"} = "bar";
#lock($hash{"foo"});          # Error
lock(%hash);                  # Works

If you need more fine-grained control over shared variable access, see L<Thread::Semaphore>.

=item cond_wait VARIABLE

=item cond_wait CONDVAR, LOCKVAR

The C<cond_wait> function takes a B<locked> variable as a parameter, unlocks the variable, and blocks until another thread does a C<cond_signal> or C<cond_broadcast> for that same locked variable. The variable that C<cond_wait> blocked on is re-locked after the C<cond_wait> is satisfied. If there are multiple threads C<cond_wait>ing on the same variable, all but one will re-block waiting to reacquire the lock on the variable. (So if you're only using C<cond_wait> for synchronization, give up the lock as soon as possible). The two actions of unlocking the variable and entering the blocked wait state are atomic; the two actions of exiting from the blocked wait state and re-locking the variable are not.

In its second form, C<cond_wait> takes a shared, B<unlocked> variable followed by a shared, B<locked> variable. The second variable is unlocked and thread execution suspended until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread C<cond_signal> or C<cond_broadcast> on the variable. It is therefore important to check the value of the variable and go back to waiting if the requirement is not fulfilled. For example, to pause until a shared counter drops to zero:
In its two-argument form, `cond_timedwait` takes a `locked` variable and an absolute timeout in `epoch` seconds (see `L<time() in perlfunc|perlfunc/time>` for more) as parameters, unlocks the variable, and blocks until the timeout is reached or another thread signals the variable. A false value is returned if the timeout is reached, and a true value otherwise. In either case, the variable is re-locked upon return.

Like `cond_wait`, this function may take a shared, `locked` variable as an additional parameter; in this case the first parameter is an `unlocked` condition variable protected by a distinct lock variable.

Again like `cond_wait`, waking up and reacquiring the lock are not atomic, and you should always check your desired condition after this function returns. Since the timeout is an absolute value, however, it does not have to be recalculated with each pass:

```perl
lock($var);
my $abs = time() + 15;
until ($ok = desired_condition($var)) {
    last if !cond_timedwait($var, $abs);
}
# we got it if $ok, otherwise we timed out!
```

The `cond_signal` function takes a `locked` variable as a parameter and unblocks one thread that's `cond_wait`ing on that variable. If more than one thread is blocked in a `cond_wait` on that variable, only one (and which one is indeterminate) will be unblocked.

If there are no threads blocked in a `cond_wait` on the variable, the signal is discarded. By always locking before signaling, you can (with care), avoid signaling before another thread has entered cond_wait().

`cond_signal` will normally generate a warning if you attempt to use it on an unlocked variable. On the rare occasions where doing this may be sensible, you can suppress the warning with:

```perl
{ no warnings 'threads'; cond_signal($foo); }
```
The C<cond_broadcast> function works similarly to C<cond_signal>. C<cond_broadcast>, though, will unblock B<all> the threads that are blocked in a C<cond_wait> on the locked variable, rather than only one.

=head1 OBJECTS

L<threads::shared> exports a version of L<bless()|perlfunc/"bless REF"> that works on shared objects such that I<blessings> propagate across threads.

```perl
# Create a shared 'Foo' object
my $foo :shared = shared_clone({});
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared_clone({});
bless($bar, 'Bar');

# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;

# Rebless the objects via a thread
threads->create(sub {
    # Rebless the outer object
    bless($foo, 'Yin');

    # Cannot directly rebless the inner object
    #bless($foo->{'bar'}, 'Yang');

    # Retrieve and rebless the inner object
    my $obj = $foo->{'bar'};
bless($obj, 'Yang');
    $foo->{'bar'} = $obj;
})->join();

print(ref($foo),   "\n");  # Prints 'Yin'
print(ref($foo->{'bar'}), "\n");  # Prints 'Yang'
print(ref($bar),   "\n");  # Also prints 'Yang'
```

=head1 NOTES

L<threads::shared> is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used in both threaded and non-threaded applications.
If you want access to threads, you must \texttt{use threads} before you \texttt{use threads::shared}. \texttt{L<threads>} will emit a warning if you use it after \texttt{L<threads::shared>}. 

\texttt{#head1 BUGS AND LIMITATIONS}

When \texttt{share} is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

\begin{verbatim}
my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());

# Create a 'foo' object
my $foo = { 'data' => 99 };
bless($foo, 'foo');

# Share the object
share($foo);       # Contents are now wiped out
print("ERROR: \$foo is empty\n")
    if (! exists($foo->{'data'}));
\end{verbatim}

Therefore, populate such variables \textbf{B<after>} declaring them as shared. (Scalar and scalar refs are not affected by this problem.)

It is often not wise to share an object unless the class itself has been written to support sharing. For example, an object's destructor may get called multiple times, once for each thread's scope exit. Another danger is that the contents of hash-based objects will be lost due to the above mentioned limitation. See \texttt{F<examples/class.pl>} (in the CPAN distribution of this module) for how to create a class that supports object sharing.

Destructors may not be called on objects if those objects still exist at global destruction time. If the destructors must be called, make sure there are no circular references and that nothing is referencing the objects, before the program ends.

Does not support \texttt{splice} on arrays. Does not support explicitly changing array lengths via \texttt{#$array} -- use \texttt{push} and \texttt{pop} instead.

Taking references to the elements of shared arrays and hashes does not autovivify the elements, and neither does slicing a shared array/hash over non-existent indices/keys autovivify the elements.

\texttt{C<share()>} allows you to \texttt{C<< share($hashref->{key}) >>} and \texttt{C<< share($arrayref->[idx]) >>} without giving any error message. But the \texttt{C<< $hashref->{key} >>} or \texttt{C<< $arrayref->[idx] >>} is \texttt{B<not>} shared, causing the error "lock can only be used on shared values" to occur when you attempt
to C<< lock($hashref->[key]) >> or C<< lock($arrayref->[idx]) >> in another thread.

Using L<refaddr()>|Scalar::Util/"refaddr EXPR"> is unreliable for testing whether or not two shared references are equivalent (e.g., when testing for circular references). Use L<is_shared()>|"is_shared VARIABLE">, instead:

use threads;
use threads::shared;
use Scalar::Util qw(refaddr);

# If ref is shared, use threads::shared's internal ID.
# Otherwise, use refaddr().
my $addr1 = is_shared($ref1) || refaddr($ref1);
my $addr2 = is_shared($ref2) || refaddr($ref2);

if ($addr1 == $addr2) {
    # The refs are equivalent
}

L<each()>|perlfunc/"each HASH"> does not work properly on shared references embedded in shared structures. For example:

    my %foo :shared;
    $foo{'bar'} = shared_clone({'a'=&gt;'x', 'b'=&gt;'y', 'c'=&gt;'z'});

    while (my ($key, $val) = each(%{$foo{'bar'}})) {
        ...
    }

Either of the following will work instead:

    my $ref = $foo{'bar'};
    while (my ($key, $val) = each(%{$ref})) {
        ...
    }

    foreach my $key (keys(%{$foo{'bar'}})) {
        my $val = $foo{'bar'}{$key};
        ...
    }

This module supports dual-valued variables created using L<dualvar()> from Scalar::Util/Scalar::Util/"dualvar NUM, STRING">. However, while C<$!> acts like a dualvar, it is implemented as a tied SV. To propagate its value, use the follow construct, if needed:

    my $errno :shared = dualvar($!, $!);
View existing bug reports at, and submit any new bugs, problems, patches, etc.
to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>

=head1 SEE ALSO

L<threads::shared> Discussion Forum on CPAN:
L<http://www.cpanforum.com/dist/threads-shared>

L<threads>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

=head1 AUTHOR

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Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E<lt>jdhedden AT cpan DOT orgE<gt>.

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Name: perl-threads-shared
Version: 1.43
Release: 6%{?dist}
Summary: Perl extension for sharing data structures between threads
License: GPL+ or Artistic
Group: Development/Libraries
URL: http://search.cpan.org/dist/threads-shared/
Source0: http://www.cpan.org/authors/id/J/JD/JDHEDDEN/threads-shared-%{version}.tar.gz
BuildRequires: perl
BuildRequires: perl(Carp)
BuildRequires: perl(Config)
BuildRequires: perl(ExtUtils::MakeMaker)
BuildRequires: perl(ExtUtils::testlib)
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BuildRequires: perl(File::Spec)
BuildRequires: perl(POSIX)
BuildRequires: perl(Scalar::Util)
BuildRequires: perl(strict)
BuildRequires: perl(Test::More)
BuildRequires: perl(threads) >= 1.73
BuildRequires: perl(warnings)
BuildRequires: perl(XSLoader)

Requires: perl(:MODULE_COMPAT_%(eval ""perl -V:version""; echo $version))
Requires: perl(Carp)
Requires: perl(threads) >= 1.73
Requires: perl(XSLoader)

%{?perl_default_filter}

%description
By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the threads module.

%prep
%setup -q -n threads-shared-%{version}

%build
perl Makefile.PL INSTALLDIRS=vendor OPTIMIZE="$RPM_OPT_FLAGS"
make %{?_smp_mflags}

%install
make pure_install DESTDIR=$RPM_BUILD_ROOT
find $RPM_BUILD_ROOT -type f -name .packlist -exec rm -f {} \
find $RPM_BUILD_ROOT -type f -name *.*.bs' -size 0 -exec rm -f {} \
%{_fixperms} $RPM_BUILD_ROOT/*

%check
make test

%files
%doc Changes README
%{perl_vendorarch}/auto/*
%{perl_vendorarch}/threads*
%{_mandir}/man3/*

%changelog
* Fri Jan 24 2014 Daniel Mach <dmach@redhat.com> - 1.43-6
  - Mass rebuild 2014-01-24
* Fri Dec 27 2013 Daniel Mach <dmach@redhat.com> - 1.43-5
  - Mass rebuild 2013-12-27

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-4
  - Remove BR perl(Test)

* Tue Jul 02 2013 Jitka Plesnikova <jplesnik@redhat.com> - 1.43-3
  - Specify all dependencies

* Thu Feb 14 2013 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.43-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_19_Mass_Rebuild

* Tue Jan 15 2013 Petr Pisar <ppisar@redhat.com> - 1.43-1
  - 1.43 bump

* Fri Nov 23 2012 Jitka Plesnikova <jplesnik@redhat.com> - 1.42-2
  - Add BR perl(File::Spec)
  - Replace PERL_INSTALL_ROOT with DESTDIR
  - Remove deleting empty directories
  - Remove defattr

* Wed Oct 03 2012 Petr Pisar <ppisar@redhat.com> - 1.42-1
  - 1.42 bump

* Mon Sep 10 2012 Petr Pisar <ppisar@redhat.com> - 1.41-1
  - 1.41 bump

* Mon Aug 13 2012 Marcela Malov <mmaslano@redhat.com> - 1.40-240
  - bump release to override sub-package from perl.spec

* Fri Jul 20 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-4
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_18_Mass_Rebuild

* Wed Jun 06 2012 Petr Pisar <ppisar@redhat.com> - 1.40-3
  - Perl 5.16 rebuild

* Sat Jan 14 2012 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.40-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_17_Mass_Rebuild

* Mon Sep 12 2011 Petr Pisar <ppisar@redhat.com> - 1.40-1
  - 1.40 bump

* Tue Sep 06 2011 Petr Pisar <ppisar@redhat.com> - 1.39-1
  - 1.39 bump

* Wed Aug 17 2011 Marcela Malov <mmaslano@redhat.com> - 1.37-3
  - change path on vendor, so our debuginfo are not conflicting with
perl core debuginfos

* Mon Jun 20 2011 Marcela Malov <mmaslano@redhat.com> - 1.37-2
  - Perl mass rebuild

* Tue Apr 26 2011 Petr Pisar <ppisar@redhat.com> - 1.37-1
  - 1.37 bump

* Wed Feb 09 2011 Fedora Release Engineering <rel-eng@lists.fedoraproject.org> - 1.36-2
  - Rebuilt for https://fedoraproject.org/wiki/Fedora_15_Mass_Rebuild

* Mon Jan 03 2011 Petr Pisar <ppisar@redhat.com> - 1.36-1
  - 1.36 bump

* Mon Oct 11 2010 Petr Pisar <ppisar@redhat.com> - 1.34-1
  - 1.34 bump

* Thu Sep 23 2010 Petr Pisar <ppisar@redhat.com> 1.33-1
  - Specfile autogenerated by cpanspec 1.78.
  - Fix dependencies
  - Requires perl(Scalar::Util) is autodetected
  - Do not provide private library
  - Remove pre-F12 BuildRoot stuff

Found in path(s):
* /opt/cola/permits/1148334553_1619429655.49/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-UfoFzU0Y/perl-threads-shared.spec

No license file was found, but licenses were detected in source scan.

/*

ppport.h -- Perl/Pollution/Portability Version 3.19

Automatically created by Devel::PPPort running under perl 5.010000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the includes in parts/inc/ instead.

Use 'perldoc pppport.h' to view the documentation below.

*/

----------------------------------------------------------------------

SKIP

=pod

=head1 NAME
=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodoc don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.
If this option is given, a single patch file will be created if any changes are suggested. This requires a working diff program to be installed on your system.

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automatically add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither --patch or --copy are given, the default is to simply print the diffs for each file. This requires either Text::Diff or a diff program to be installed.

Manually set the diff program and options to use. The default is to use Text::Diff, when installed, and output unified context diffs.

Tell ppport.h to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003. You can use this option to reduce the output of ppport.h if you intend to be backward compatible only down to a certain Perl version.

Usually, ppport.h will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs ppport.h to leave C++ comments untouched.

Be quiet. Don't print anything except fatal errors.

Don't output any diagnostic messages. Only portability alerts will be printed.
Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

Don't filter the list of input files. By default, files not looking like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

Strip all script and documentation functionality from F<ppport.h>. This reduces the size of F<ppport.h> dramatically and may be useful if you want to include F<ppport.h> in smaller modules without increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows you to undo the stripping, but only if an appropriate C<Devel::PPPort> module is installed.

Lists the API elements for which compatibility is provided by F<ppport.h>. Also lists if it must be explicitly requested, if it has dependencies, and if there are hints or warnings for it.

Lists the API elements that are known not to be supported by F<ppport.h> and below which version of Perl they probably won't be available or work.

Show portability information for API elements matching I<name>. If I<name> is surrounded by slashes, it is interpreted as a regular expression.

In order for a Perl extension (XS) module to be as portable as possible
across differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you access to a large part of the Perl API that hasn't been available in earlier Perl releases. Use

perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using global Perl variables without the C<PL_> prefix is deprecated. Also, some API functions used to have a C<perl_> prefix. Using this form is also deprecated. You can safely use the supported API, as F<ppport.h> will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in earlier versions of Perl, and that can't be provided using a macro, you have to explicitly request support for these functions by adding one or more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables will be marked C<explicit> in the list shown by C<--list-provided>.

Depending on whether you module has a single or multiple files that use such functions or variables, you want either C<static> or global variants.

For a C<static> function or variable (used only in a single source file), use:

    #define NEED_function
    #define NEED_variable

For a global function or variable (used in multiple source files), use:

    #define NEED_function_GLOBAL
    #define NEED_variable_GLOBAL
Note that you mustn't have more than one global request for the same function or variable in your project.

<table>
<thead>
<tr>
<th>Function / Variable</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL_parser</td>
<td>NEED_PL_parser</td>
<td>NEED_PL_parser_GLOBAL</td>
</tr>
<tr>
<td>PL_signals</td>
<td>NEED_PL_signals</td>
<td>NEED_PL_signals_GLOBAL</td>
</tr>
<tr>
<td>eval_pv()</td>
<td>NEED_eval_pv</td>
<td>NEED_eval_pv_GLOBAL</td>
</tr>
<tr>
<td>grok_bin()</td>
<td>NEED_grok_bin</td>
<td>NEED_grok_bin_GLOBAL</td>
</tr>
<tr>
<td>grok_hex()</td>
<td>NEED_grok_hex</td>
<td>NEED_grok_hex_GLOBAL</td>
</tr>
<tr>
<td>grok_number()</td>
<td>NEED_grok_number</td>
<td>NEED_grok_number_GLOBAL</td>
</tr>
<tr>
<td>grok_numeric_radix()</td>
<td>NEED_grok_numeric_radix</td>
<td>NEED_grok_numeric_radix_GLOBAL</td>
</tr>
<tr>
<td>grok_oct()</td>
<td>NEED_grok_oct</td>
<td>NEED_grok_oct_GLOBAL</td>
</tr>
<tr>
<td>load_module()</td>
<td>NEED_load_module</td>
<td>NEED_load_module_GLOBAL</td>
</tr>
<tr>
<td>my_snprintf()</td>
<td>NEED_my_snprintf</td>
<td>NEED_my_snprintf_GLOBAL</td>
</tr>
<tr>
<td>my_sprintf()</td>
<td>NEED_my_sprintf</td>
<td>NEED_my_sprintf_GLOBAL</td>
</tr>
<tr>
<td>my_strlcat()</td>
<td>NEED_my_strlcat</td>
<td>NEED_my_strlcat_GLOBAL</td>
</tr>
<tr>
<td>my_strlcpy()</td>
<td>NEED_my_strlcpy</td>
<td>NEED_my_strlcpy_GLOBAL</td>
</tr>
<tr>
<td>newCONSTSUB()</td>
<td>NEED_newCONSTSUB</td>
<td>NEED_newCONSTSUB_GLOBAL</td>
</tr>
<tr>
<td>newRV_noinc()</td>
<td>NEED_newRV_noinc</td>
<td>NEED_newRV_noinc_GLOBAL</td>
</tr>
<tr>
<td>newSV_type()</td>
<td>NEED_newSV_type</td>
<td>NEED_newSV_type_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_flags()</td>
<td>NEED_newSVpvn_flags</td>
<td>NEED_newSVpvn_flags_GLOBAL</td>
</tr>
<tr>
<td>newSVpvn_share()</td>
<td>NEED_newSVpvn_share</td>
<td>NEED_newSVpvn_share_GLOBAL</td>
</tr>
<tr>
<td>pv_display()</td>
<td>NEED_pv_display</td>
<td>NEED_pv_display_GLOBAL</td>
</tr>
<tr>
<td>pv_escape()</td>
<td>NEED_pv_escape</td>
<td>NEED_pv_escape_GLOBAL</td>
</tr>
<tr>
<td>pv_pretty()</td>
<td>NEED_pv_pretty</td>
<td>NEED_pv_pretty_GLOBAL</td>
</tr>
<tr>
<td>sv_2pv_flags()</td>
<td>NEED_sv_2pv_flags</td>
<td>NEED_sv_2pv_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_2pvbyte()</td>
<td>NEED_sv_2pvbyte</td>
<td>NEED_sv_2pvbyte_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg()</td>
<td>NEED_sv_catpvf_mg</td>
<td>NEED_sv_catpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_catpvf_mg_nocontext()</td>
<td>NEED_sv_catpvf_mg_nocontext</td>
<td>NEED_sv_catpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>sv_pvn_force_flags()</td>
<td>NEED_sv_pvn_force_flags</td>
<td>NEED_sv_pvn_force_flags_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg()</td>
<td>NEED_sv_setpvf_mg</td>
<td>NEED_sv_setpvf_mg_GLOBAL</td>
</tr>
<tr>
<td>sv_setpvf_mg_nocontext()</td>
<td>NEED_sv_setpvf_mg_nocontext</td>
<td>NEED_sv_setpvf_mg_nocontext_GLOBAL</td>
</tr>
<tr>
<td>vload_module()</td>
<td>NEED_vload_module</td>
<td>NEED_vload_module_GLOBAL</td>
</tr>
<tr>
<td>vnewSVpvf()</td>
<td>NEED_vnewSVpvf</td>
<td>NEED_vnewSVpvf_GLOBAL</td>
</tr>
<tr>
<td>warner()</td>
<td>NEED_warner</td>
<td>NEED_warner_GLOBAL</td>
</tr>
</tbody>
</table>

To avoid namespace conflicts, you can change the namespace of the explicitly exported functions / variables using the C<DPPP_NAMESPACE> macro. Just C<#define> the macro before including C<ppport.h>:

```c
#define DPPP_NAMESPACE MyOwnNamespace
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back
The good thing is that most of the above can be checked by running $ppport.h$ on your source code. See the next section for details.

=head1 EXAMPLES

To verify whether $ppport.h$ is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, $ppport.h$ can be run as a Perl script to check your source code. Simply say:

perl ppport.h

The result will usually be a list of patches suggesting changes that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions for changes, use:

perl ppport.h --nochanges

You can specify a different C<diff> program or options, using the C<--diff> option:

perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function, use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression, you can use
perl ppport.h --api-info=_nomg$

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;

my %opt = (
    quiet => 0,
    diag => 1,
    hints => 1,
    changes => 1,
    cplusplus => 0,
    filter => 1,
    strip => 0,
    version => 0,
);

my($ppport) = $0 =~ /\[\w.]+$/;
my $LF = '(?:\r\n|\[\r\n\])';  # line feed
my $HS = '[ \t]';             # horizontal whitespace

# Never use C comments in this file!
my $ccs = '/.*?/';
my $cce = '.*?/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(%opt, qw(
help quiet diag! filter! hints! changes! cplusplus strip version
patch=s copy=s diff=s compat-version=s
list-provided list-unsupported api-info=s
}) or usage();
];

if ($@ and grep /^-/, @ARGV) {
  usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
die "Getopt::Long not found. Please don't use any options.
"
}

if ($opt{version}) {
  print "This is $0 $VERSION.
";
  exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
  my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) }
  if ($@) {
    die "Invalid version number format: $opt{'compat-version'}\n"
  } else {
    $opt{'compat-version'} = 5;
  }

  my %API = map { ^\w+(\^[w+])\[(\^[^\[\]*\]\]*)\[(\^[^\[\]*\]\]*)\\[(\^[w+])\$/
    ? ( $1 => {
        ($2  => ( base  => $2 ) : () ),
        ($3  => ( todo   => $3 ) : () ),
        (index($4, 'v') >= 0 ? ( varargs  => 1  ) : () ),
        (index($4, 'p') >= 0 ? ( provided => 1  ) : () ),
        (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : () ),
    } )
    : die "invalid spec: $._" } qw( AvFILLp|5.004050||p
AvFILL||
CLASS||
CPERLscope|5.005000||p
CX_CURPAD_SAVE||
CX_CURPAD_SV||
CopFILEAV|5.006000||p
CopFILEGV_set[5.006000]|p
CopFILEGV[5.006000]|p
CopFILESV[5.006000]|p
CopFILE_set[5.006000]|p
CopFILE[5.006000]|p
CopSTASHPV_set[5.006000]|p
CopSTASHPV[5.006000]|p
CopSTASH_eq[5.006000]|p
CopSTASH_set[5.006000]|p
CopSTASH[5.006000]|p
CopyD[5.009002]|p
Copy||
CvPADLIST||
CvSTASH||
CvWEAKOUTSIDE||
DEFSV_set[5.011000]|p
DEFSV[5.004050]|p
END_EXTERN_C[5.005000]|p
ENTER||
ERRSV[5.004050]|p
EXTEND||
EXTERN_C[5.005000]|p
F0convert||n
FREETMPS||
GIMME_V[5.004000]|n
GIMME||n
GROK_NUMERIC_RADIX[5.007002]|p
G_ARRAY||
G_DISCARD||
G_METHOD[5.006001]|p
G_NOARGS||
G_SCALAR||
G_VOID[5.004000]
GetVars||
GvSVn[5.009003]|p
GvSV||
Gv_AMupdate||
HEf_SVKEY[5.004000]
HeHASH[5.004000]
HeKEY[5.004000]
HeKLEN[5.004000]
HePV[5.004000]
HeSVKEY_force[5.004000]
HeSVKEY_set[5.004000]
HeSVKEY[5.004000]
HeUTF8[5.011000]
HeVAL[5.004000]
SVt_PV||
Safefree||
Slab_Alloc||
Slab_Free||
Slab_to_rw||
StructCopy||
SvCUR_set||
SvCUR||
SvEND||
SvGAMAGIC|5.006001|
SvGETMAGIC|5.004050||p
SvGROW||
SvIOK_UV|5.006000|
SvIOK_notUV|5.006000|
SvIOK_off||
SvIOK_only_UV|5.006000|
SvIOK_only||
SvIOK_on||
SvIOKp||
SvIOK||
SvIVX||
SvIV_nomg|5.009001||p
SvIV_set||
SvIVx||
SvIV||
SvIsCOW_shared_hash|5.008003|
SvIsCOW|5.008003|
SvLEN_set||
SvLEN||
SvLOCK|5.007003|
SvMAGIC_set|5.009003||p
SvNIOK_off||
SvNIOKp||
SvNIOK||
SvNOK_off||
SvNOK_only||
SvNOK_on||
SvNOKp||
SvNOK||
SvNVX||
SvNV_set||
SvNVx||
SvNV||
SvOK||
SvOOK_offset|5.011000|
SvOOK||
SvPOK_off||
SvPOK_only_UTF8|5.006000|
SvREFCNT_inc\|\|p
SvREFCNT\|\|
SvROK_off\|\|
SvROK_on\|\|
SvROK\|
SvRV_set|5.009003|p
SvRV\|
SvRXOK|5.009005|
SvRX|5.009005|
SvSETMAGIC\|
SvSHARE|5.009003|
SvSHARE|5.007003|
SvSTASH_set|5.009003|p
SvSTASH\|
SvSetMagicSV_nosteal|5.004000|
SvSetMagicSV|5.004000|
SvSetSV_nosteal|5.004000|
SvSetSV\|
SvTAINTED_off|5.004000|
SvTAINTED_on|5.004000|
SvTAINTED|5.004000|
SvTAINT\|
SvTRUE\|
SvTYPE\|
SvUNLOCK|5.007003|
SvUOK|5.007001|5.006000|p
SvUOK\|
SvUPGRADE\|
SvUTF8_off|5.006000|
SvUTF8_on|5.006000|
SvUTF8|5.006000|
SvUVXx|5.004000|p
SvUVX|5.004000|p
SvUVX|5.004000|p
SvUV|5.004000|p
SvVOK|5.008001|
SvVSTRING_mg|5.009004|p
THIS||n
UNDERBAR|5.009002|p
UTF8_MAXBYTES|5.009002|p
UVSIZE|5.006000|p
UVTYPE|5.006000|p
UVX|5.007001|p
UVof|5.006000|p
UVuf|5.006000|p
UVxf|5.006000|p
WARN_ALL|5.006000|p
calloc||5.007002|n
cando||
cast_i32||5.006000|
cast_iv||5.006000|
cast_ulong||5.006000|
cast_uv||5.006000|
check_type_and_open||
check_uni||
checkcomma||
checkposixcc||
ckWARN||5.006000|p
ck_anoncode||
ck_bitop||
ck_concat||
ck_defined||
ck_delete||
ck_die||
ck_each||
ck_eof||
ck_eval||
ck_exec||
ck_exists||
ck_exit||
ck_ftst||
ck_fun||
ck_glob||
ck_grep||
ck_index||
ck_join||
ck_Lfun||
ck_listiob||
ck_match||
ck_method||
ck_null||
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);
if (exists $opt{'list-unsupported'}) {
my $f;
for $f (sort { lc $a cmp lc $b } keys %API) {
next unless $API{$f}{todo};
print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
}
exit 0;
}
# Scan for possible replacement candidates
my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);
sub find_api
{
my $code = shift;
$code =~ s{
/ (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
grep { exists $API{$_} } $code =~ /(\w+)/mg;
}
while (<DATA>) {
if ($hint) {
my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
if (m{^\s*\*\s(.*?)\s*$}) {
for (@{$hint->[1]}) {
$h->{$_} ||= ''; # suppress warning with older perls
$h->{$_} .= "$1\n";
}
}
else { undef $hint }
}
$hint = [$1, [split /,?\s+/, $2]]
if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

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if ($define) {
    if ($define->[1] =~ /$define/ { 
        $define->[1] .= $._;
    } else {
        if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_/) {
            my @n = find_api($define->[1]);
            push @{$depends{$define->[0]}}, @n if @n
        }
        undef $define;
    }
} }

$define = [$1, $2] if m{^\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)}\;

if ($function) {
    if (/^}$/) {
        if (exists $API{$function->[0]}) {
            my @n = find_api($function->[1]);
            push @{$depends{$function->[0]}}, @n if @n
        }
        undef $function;
    } else {
        $function->[1] .= $_;
    }
} }

$function = [$1, ""] if m{^DPPP_\(my_\(\w+\))\};

$replace     = $1 if m{^s*\$rccs\s+Replace:\s+(\w+)(?:\s*\$rcce\s*\$)\};
$replace{$2} = $1 if $replace and m{^s*\$rccs\s+(\w+)(?:\s*\$rcce\s*)\}s+\s+(\w+)\};
$replace{$2} = $1 if m{^s*\$rccs\s+(\w+)(?:\s*\$rcce\s*)\}s+\s+(\w+).*$rccs\s+Replace\s+(\w+)+\$rcce\s*\$\};
$replace{$1} = $2 if m{^s*\$rccs\s+Replace \w+ with \w+ with \w+)+\$rcce\s*\$\};

if (m{^\s*\$rccs\s+(\w+)(?:\s*\w+)+\$rcce\s*\$}) { 
    my @deps = map { s/\s+//g; $._ } split /,/, $3;
    my $d;
    for $d (map { s/\s+//g; $._ } split /,/, $1) {
        push @{$depends{$d}}, @deps;
    }
} }

$need{$1} = 1 if m{^\s*\$if\s+defined\(\$\w+\)\($\_\$GLOBAL)?\};

for (values %depends) {
my $s;
$_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
  my $f;
  my $count = 0;
  my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "$opt{'api-info'}";
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $f =~ /$match/;
    print "un== $f ==\n"
  }
  $info = 0;
  if ($API{$f}{base} || $API{$f}{todo}) {
    my $base = format_version($API{$f}{base} || $API{$f}{todo});
    print "Supported at least starting from perl-$base\n";
    $info++;
  }
  if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo\n";
    print "Support needs to be explicitly requested by NEED_$f\n" if exists $need{$f};
    print "Depends on: ", join(', ', @{$depends{$f}}), ",\n" if exists $depends{$f};
    print "Shint$ff if exists $shint{$f};
    print "$WARNING:\n$warings{$f}" if exists $warings{$f};
    $info++;
  }
  print "No portability information available.\n" unless $info;
  $count++;
}
$count or print "Found no API matching \$opt{\'api-info\'}\";
print "un";
exit 0;
}

if (exists $opt{'list-provided'}) {
  my $f;
  for $f (sort { lc $a cmp lc $b } keys %API) {
    next unless $API{$f}{provided};
    my @flags;
    push @flags, 'explicit' if exists $need{$f};
    push @flags, 'depend' if exists $depends{$f};
    push @flags, 'hint' if exists $shint{$f};
    push @flags, 'warning' if exists $warings{$f};
    my $flags = @flags ? '[join(', ', @flags).']" : "
    print "$f$flags\n";
  }
  exit 0;
}

---
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my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;
if (@ARGV) {
my %seen;
for (@ARGV) {
if (-e) {
if (-f) {
push @files, $_ unless $seen{$_}++;
}
else { warn "'$_' is not a file.\n" }
}
else {
my @new = grep { -f } glob $_
or warn "'$_' does not exist.\n";
push @files, grep { !$seen{$_}++ } @new;
}
}
}
else {
eval {
require File::Find;
File::Find::find(sub {
$File::Find::name =~ /($srcext)$/i
and push @files, $File::Find::name;
}, '.');
};
if ($@) {
@files = map { glob "*$_" } @srcext;
}
}
if (!@ARGV || $opt{filter}) {
my(@in, @out);
my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
for (@files) {
my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
push @{ $out ? \@out : \@in }, $_;
}
if (@ARGV && @out) {
warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
}
@files = @in;
}
die "No input files given!\n" unless @files;

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my($files, $global, $revreplace);
$revreplace = reverse $replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
    unless (open IN, "$filename") {
        warn "Unable to read from $filename: $!
    next;
    }

    info("Scanning $filename ...");

    my $c = do { local $/; <IN> };
    close IN;

    my %file = (orig => $c, changes => 0);

    # Temporarily remove C/XS comments and strings from the code
    my @ccom; my %file = (orig => $c, changes => 0);
    # Temporarily remove C/XS comments and strings from the code
    my $c = do { local $/; <IN> };
    close IN;

    my $filename;
    my $patch_opened = 0;

    for $filename (@files) {
        unless (open IN, "$filename") {
            warn "Unable to read from $filename: $!
        next;
        }

        info("Scanning $filename ...");

        my $c = do { local $/; <IN> };
        close IN;

        my %file = (orig => $c, changes => 0);

        # Temporarily remove C/XS comments and strings from the code
        my @ccom; my %file = (orig => $c, changes => 0);
        # Temporarily remove C/XS comments and strings from the code
        my $c = do { local $/; <IN> };
        close IN;

    my $func;
my @deps = rec_depend($func);
if (@deps) {
$file{uses_deps}{$func} = \@deps;
for (@deps) {
$file{uses}{$_} = 0 unless exists $file{uses}{$_};
}
}
for ($func, @deps) {
$file{needs}{$_} = 'static' if exists $need{$_};
}
}
}
if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
if ($c =~ /\b$func\b/) {
$file{uses_todo}{$func}++;
}
}
}
}
while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
if (exists $need{$2}) {
$file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
}
else { warning("Possibly wrong #define $1 in $filename") }
}
for (qw(uses needs uses_todo needed_global needed_static)) {
for $func (keys %{$file{$_}}) {
push @{$global{$_}{$func}}, $filename;
}
}
$files{$filename} = \%file;
}
# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
if (@{$global{needs}{$need}} > 1) {
my @targets = @{$global{needs}{$need}};
my @t = grep $files{$_}{needed_global}{$need}, @targets;
@targets = @t if @t;
@t = grep /\.xs$/i, @targets;
@targets = @t if @t;
my $target = shift @targets;
$files{$target}{needs}{$need} = 'global';
for (@{$global{needs}{$need}}) {

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$files{$_}{needs}{$need} = 'extern' if $_ ne $target;
}
}
}

for $filename (@files) {
exists $files{$filename} or next;

info("=== Analyzing $filename ===");

my %file = %{$files{$filename}};
my $func;
my $c = $file{code};
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
        my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*\)?(?!aTHX_?)\(|\((.*)\)*\))\s*\1\s\2\s*\}{'aTHX$1()' . $func$2}"{.ge);
        if ($changes) {
            warning("Doesn't pass interpreter argument aTHX to Perl_$func");
            $file{changes} += $changes;
        }
    }
    else {
        warning("Uses Perl_$func instead of $func");
        $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*\)?aTHX\s*\)\s*\}{'$func$1()' g);
    }
}
else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func\s*\(\s*\)?aTHX\s*\)\s*\}{'$func$1()' g);
}
}

for $func (sort keys %{$file{uses_replace}}) {
warning("Uses $func instead of $replace{$func}");
$file{changes} += ($c =~ s{\b$func\s*\}{'$replace{$func}' g});
}

for $func (sort keys %{$file{uses_provided}}) {
if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
        diag("Uses $func, which depends on ", join(', ', @{$files{uses_deps}{$func}}));
    }
    else {
        diag("Uses $func");
    }
} else {
    diag("Uses $func");
}
unless ($opt{quiet}) {
    for $func (sort keys %{$file{uses_todo}}) {
        print "*** WARNING: Uses $func, which may not be portable below perl ",
             format_version($API{$func}{todo}), ", even with '"$ppport'"n";
        $warnings++;
    }
}

for $func (sort keys %{$file{needed_static}}) {
    my $message = ";
    if (not exists $file{uses}->{$func}) {
        $message = "No need to define NEED_$func if $func is never used";
    } elsif (exists $file{needs}->{$func} && $file{needs}->{$func} ne 'static') {
        $message = "No need to define NEED_$func when already needed globally";
    } if ($message) {
        diag($message);
        $file{changes} += (s/$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
    }
}

for $func (sort keys %{$file{needed_global}}) {
    my $message = ";
    if (not exists $global{uses}->{$func}) {
        $message = "No need to define NEED_$func\GLOBAL if $func is never used";
    } elsif (exists $file{needs}->{$func}) {
        if ($file{needs}->{$func} eq 'extern') {
            $message = "No need to define NEED_$func\GLOBAL when already needed globally";
        } elsif ($file{needs}->{$func} eq 'static') {
            $message = "No need to define NEED_$func\GLOBAL when only used in this file";
        } } if ($message) {
        diag($message);
        $file{changes} += (s/$HS*#$HS*define$HS+NEED_$func\GLOBAL\b.*$LF//mg);
    }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
    my $pp = ";
for $func (sort keys %{$file{needs}}) {
my $type = $file{needs}{$func};
next if $type eq 'extern';
my $suffix = $type eq 'global' ? '_GLOBAL' : '';
unless (exists $file{"needed_$type"}{$func}) {
if ($type eq 'global') {
diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
}
else {
diag("File needs $func, adding static request");
}
$pp .= "#define NEED_$func$suffix\n";
}
}
if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
$pp = '';
$file{changes}++;
}
unless ($file{has_inc_ppport}) {
diag("Needs to include '$ppport'");
$pp .= qq(#include "$ppport"\n)
}
if ($pp) {
$file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
|| ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
|| ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
|| ($c =~ s/^/$pp/);
}
}
else {
if ($file{has_inc_ppport}) {
diag("No need to include '$ppport'");
$file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
}
}
# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
$cppc++;
$file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
}

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else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
}
}

if ($cppc) {
    my $s = $cppc != 1 ? 's' : ';
    warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : ';
my $warn = $warnings ? "$warnings warning$s" : "
info("Analysis completed$warn");

if ($file{changes}) {
    if (exists $opt{copy}) {
        my $newfile = "$filename$opt{copy}"
        if (-e $newfile) {
            error("'$newfile' already exists, refusing to write copy of '$filename'");
        } else {
            local *F;
            if (open F, ">$newfile") {
                info("Writing copy of '$filename' with changes to '$newfile'");
                print F $c;
                close F;
            } else {
                error("Cannot open '$newfile' for writing: $!");
            }
        }
    } elsif (exists $opt{patch} || $opt{changes}) {
        if (exists $opt{patch}) {
            unless ($patch_opened) {
                if (open PATCH, ">$opt{patch}") {
                    $patch_opened = 1;
                } else {
                    error("Cannot open '$opt{patch}' for writing: $!");
                    delete $opt{patch};
                    $opt{changes} = 1;
                    goto fallback;
                }
            } mydiff($^PATCH, $filename, $c);
        } else {
            error("$opt{patch} not found");
        }
    }
}

else {
fallback:
    info("Suggested changes:");
    mydiff(*STDOUT, $filename, $c);
    }
    }
else {
    my $s = $file{changes} == 1 ? "'s" : 's';
    info("$file{changes} potentially required change$s detected");
    }
    }
else {
    info("Looks good");
    }
    }

close PATCH if $patch_opened;

exit 0;

sub try_use { eval "use @_;"; return $@ eq "" }

sub mydiff
{
    local *F = shift;
    my($file, $str) = @_;;
    my $diff;

    if (exists $opt{diff}) { 
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if ('defined $diff and try_use('Text::Diff')}) { 
        $diff = Text::Diff::diff($file, $str, { STYLE => 'Unified' });
        $diff = <<HEADER . $diff;
        --- $file
        +++ $file.patched
        HEADER
        }

    if (!defined $diff) {
        $diff = run_diff('diff -u', $file, $str);
    }

    if (!defined $diff) {
        $diff = run_diff('diff', $file, $str);
    }
}
if (!defined $diff) {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return;
}

print F $diff;
}

sub run_diff
{
    my($prog, $file, $str) = @_;
    my $tmp = 'dppptemp';
    my $suf = 'aaa';
    my $diff = ";
    local *F;

    while (-e "$tmp.$suf") { $suf++ }
    $tmp = "$tmp.$suf";

    if (open F, ">$tmp") {
        print F $str;
        close F;
        if (open F, "$prog $file $tmp |") {
            while (<F>) {
                s/\Q$tmp\E/$file.patched/;
                $diff .= $_;
            }
            close F;
            unlink $tmp;
            return $diff;
        }
        unlink $tmp;
    } else {
        error("Cannot open '$tmp' for writing: $!");
    }

    return undef;
}

sub rec_depend
{
    my($func, $seen) = @_;
    return () unless exists $depends{$func};
    $seen = %{ $seen||{} }; 
    return () if $seen->{ $func }++;
my $s;
grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
    my $ver = shift;
    if ($ver =~ /^([^\d]+\.(\d+)\.(\d+)$) { 
        return ($1, $2, $3);
    }
    elsif ($ver !~ /^\d+\.[^\d]+\$/) {
        die "cannot parse version '$ver'\n";
    }
    $ver =~ s/_//g;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.(\d{3})\.(\d{3})/;
    $v = int $v;
    $s = int $s;
    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "cannot parse version '$ver'\n";
        }
    }
    return ($r, $v, $s);
}

sub format_version
{
    my $ver = shift;
    $ver =~ s/$/000000/;
    my($r,$v,$s) = $ver =~ /\d+\.(\d{3})\.(\d{3})/;
    $v = int $v;
    $s = int $s;
    if ($r < 5 || ($r == 5 && $v < 6)) {
        if ($s % 10) {
            die "invalid version '$ver'\n";
        }
        $s /= 10;
    }
$ver = sprintf "%d.%03d", $r, $v;
$ss > 0 and $ver .= sprintf "_%02d", $ss;

    return $ver;
}

return sprintf "%d.%d.%d", $r, $v, $ss;
}

sub info
{
    $opt{quiet} and return;
    print @_, "\n";
}

sub diag
{
    $opt{quiet} and return;
    $opt{diag} and print @_, "\n";
}

sub warning
{
    $opt{quiet} and return;
    print "***", @_, "\n";
}

sub error
{
    print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
    $opt{quiet} and return;
    my $func = shift;
    my $rv = 0;
    if (exists $warnings{$func} && !$given_warnings{$func}++) {
        my $warn = $warnings{$func};
        $warn =~ s!^!*** !mg;
        print "*** WARNING: $func\n", $warn;
        $rv++;
    }
    if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
        my $hint = $hints{$func};
        $hint =~ s/^/   /mg;
print "   --- hint for $func ---\n", $hint;
}
$rv;
}

sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\w*\^\w*(.*)\w*\^=/ms;
my $M = ( T => "*");
$usage =~ s/\^\w*perl\w+\^\S+\^\S+X $0/;
$usage =~ s/\^\w*\{[A-Z]\}\<\{[^\}]\\}\>/\^SM\{S1\}\$2SM\{S1\}/g;

print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE
exit 2;
}

sub strip
{
my $self = do { local(@ARGV,$/)=($0); <> ];
my($copy) = $self =~ /^=head\d\w+COPYRIGHT\w*\^\w*(.*\^\w+)\^\w+$/ms;
$copy =~ s/^(?=$/+/gms;
$self =~ s/\w+$HS+Do NOT edit.*?(?=^-)/$copy/ms;
$self =~ s/\^\w+SKIP.*(?=^\w+\^\w+\w+\^\w+\w+\w+)/\w+/gms;
if ($ARGV[0] eq '--unstrip') {
   eval { require Devel::PPPort }
   \$@ and die "Cannot require Devel::PPPort, please install\n"
   if (eval \$Devel::PPPort::VERSION < \$VERSION) {
      die "$0 was originally generated with Devel::PPPort \$VERSION\n      Please install a newer version, or --unstrip will not work\n"
   }
   Devel::PPPort::WriteFile($0);
   exit 0;
}
print <<END;
Sorry, but this is a stripped version of \$0.
To be able to use its original script and doc functionality,
please try to regenerate this file using:
END

$pl, $c = $self =~ /\.*\__DATA__\.(.*)*/ms;
$c =~ s{
    / (?: \^[\*]*\*+(?:[^*\[\]\]\^\]*+[\^\*]+)* / | /[^\r\n\]\]*) | ( "[^"\\]*(?:\\.[^"\\]*)*" | '([^'\\]*(?:\\.[^'\\]*)*)' | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
$c =~ s!\s+$!!mg;
$c =~ s!^\s*#\s*!!!mg;
$c =~ s!^\s+!!mg;

open OUT, ">$0" or die "cannot strip $0: $!";
print OUT "$pl$c
";
exit 0;
}

__DATA__

/*

Found in path(s):
* /opt/cola/permits/1148334553_1619429655.49/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-UfoFzU0Y/threads-shared-1.43.tar.gz-cosi-expand-archive-0LlxRgMc/threads-shared-1.43/ppport.h
No license file was found, but licenses were detected in source scan.

Copyright 2006 - 2009 Jerry D. Hedden. All rights reserved.
This program is free software; you can redistribute it and/or modify it under
the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1148334553_1619429655.49/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-UfoFzU0Y/threads-shared-1.43.tar.gz-cosi-expand-archive-0LlxRgMc/threads-shared-1.43/examples/class.pl
No license file was found, but licenses were detected in source scan.

/*    shared.xs
*    Copyright (c) 2001-2002, 2006 Larry Wall
*    You may distribute under the terms of either the GNU General Public
*    License or the Artistic License, as specified in the README file.
*    "Hand any two wizards a piece of rope and they would instinctively pull in
*    opposite directions."
*   --Sourcery
*/
* Contributed by Artur Bergman <sky AT crucially DOT net>
* Pulled in the (an)other direction by Nick Ing-Simmons
* <nick AT ing-simmons DOT net>
* CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>
*/

/*
 * Shared variables are implemented by a scheme similar to tieing.
 * Each thread has a proxy SV with attached magic -- "private SVs" --
 * which all point to a single SV in a separate shared interpreter
 * (PL_sharedsv_space) -- "shared SVs".
 *
 * The shared SV holds the variable's true values, and its state is
 * copied between the shared and private SVs with the usual
 * mg_get()/mg_set() arrangement.
 *
 * Aggregates (AVs and HVs) are implemented using tie magic, except that
 * the vtable used is one defined in this file rather than the standard one.
 * This means that where a tie function like FETCH is normally invoked by
 * the tie magic's mg_get() function, we completely bypass the calling of a
 * perl-level function, and directly call C-level code to handle it. On
 * the other hand, calls to functions like PUSH are done directly by code
 * in av.c, etc., which we can't bypass. So the best we can do is to provide
 * XS versions of these functions. We also have to attach a tie object,
 * blessed into the class threads::shared::tie, to keep the method-calling
 * code happy.
 *
 * Access to aggregate elements is done the usual tied way by returning a
 * proxy PVLV element with attached element magic.
 *
 * Pointers to the shared SV are squirrelled away in the mg->mg_ptr field
 * of magic (with mg_len == 0), and in the IV2PTR(SvIV(sv)) field of tied
 * object SVs. These pointers have to be hidden like this because they
 * cross interpreter boundaries, and we don't want sv_clear() and friends
 * following them.
 *
 * The three basic shared types look like the following:
 *
 * -----------------  
 * Shared scalar (my $s : shared):
 *  
 * SV = PVMG(0x7ba238) at 0x7387a8
 * FLAGS = (PADMY,GMG,SMG)
 * MAGIC = 0x824d88
 * MG_TYPE = PERL_MAGIC_shared_scalar(n)
 * MG_PTR = 0x810358 <<<< pointer to the shared SV
Shared aggregate (my @a : shared; my %h : shared):

* SV = PVAV(0x7175d0) at 0x738708
* FLAGS = (PADMY,RMG)
* MAGIC = 0x824e48
* MG_TYPE = PERL_MAGIC_tied(P)
* MG_OBJ = 0x7136e0 <<<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738640
* SV = PVMG(0x7ba238) at 0x738640 <<<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455000 <<<< pointer to the shared AV
* STASH = 0x80abf0 "threads::shared::tie"
* MG_PTR = 0x810358 "" <<<< another pointer to the shared AV
* ARRAY = 0x0
*

Aggregate element (my @a : shared; $a[0]):

* SV = PVLV(0x77f628) at 0x713550
* FLAGS = (GMG,SMG,RMG,pIOK)
* MAGIC = 0x72bd58
* MG_TYPE = PERL_MAGIC_shared_scalar(n)
* MG_PTR = 0x8103c0 "" <<<< pointer to the shared element
* MAGIC = 0x72bd18
* MG_TYPE = PERL_MAGIC_tiedelem(p)
* MG_OBJ = 0x7136e0 <<<< ref to the tied object
* SV = RV(0x7136f0) at 0x7136e0
* RV = 0x738660
* SV = PVMG(0x7ba278) at 0x738660 <<<< the tied object
* FLAGS = (OBJECT,IOK,pIOK)
* IV = 8455064 <<<< pointer to the shared AV
* STASH = 0x80ac30 "threads::shared::tie"
* TYPE = t
*
* Note that PERL_MAGIC_tiedelem(p) magic doesn't have a pointer to a
* shared SV in mg_ptr; instead this is used to store the hash key,
* if any, like normal tied elements. Note also that element SVs may have
* pointers to both the shared aggregate and the shared element.
*
* Userland locks:
*
* If a shared variable is used as a perl-level lock or condition
* variable, then PERL_MAGIC_ext magic is attached to the associated
* shared* SV, whose mg_ptr field points to a malloc'ed structure
* containing the necessary mutexes and condition variables.
* Nomenclature:
* In this file, any variable name prefixed with 's' (e.g., ssv, stmp or sobj)
* usually represents a shared SV which corresponds to a private SV named
* without the prefix (e.g., sv, tmp or obj).
*/
#define PERL_NO_GET_CONTEXT
#include "EXTERN.h"
#include "perl.h"
#include "XSUB.h"
#endif
/* Magic signature(s) for mg_private to make PERL_MAGIC_ext magic safer */
#define UL_MAGIC_SIG 0x554C /* UL = user lock */

/* The shared things need an interpreter to live in ... */
PerlInterpreter *PL_sharedsv_space; /* The shared sv space */
/* To access shared space we fake aTHX in this scope and thread's context */
/* Bug #24255: We include ENTER+SAVETMPS/FREETMPS+LEAVE with
* SHARED_CONTEXT/CALLER_CONTEXT macros, so that any mortals, etc. created
* while in the shared interpreter context don't languish */
#define SHARED_CONTEXT

/* So we need a way to switch back to the caller's context... */
/* So we declare _another_ copy of the aTHX variable... */
#define dTHXc PerlInterpreter *caller_perl = aTHX

/* ... and use it to switch back */
#define CALLER_CONTEXT
    STMT_START
        \FREETMPS;
        \LEAVE;
        \PERL_SET_CONTEXT((aTHX = caller_perl));
    } STMT_END

/* Only one thread at a time is allowed to mess with shared space. */

typedef struct {
    perl_mutex mutex;
    PerlInterpreter *owner;
    I32 locks;
    perl_cond cond;
#ifdef DEBUG_LOCKS
    char * file;
    int line;
#endif
} recursive_lock_t;

recursive_lock_t PL_sharedsv_lock; /* Mutex protecting the shared sv space */

void
recursive_lock_init(pTHX_ recursive_lock_t *lock)
{
    Zero(lock,1,recursive_lock_t);
    MUTEX_INIT(&lock->mutex);
    COND_INIT(&lock->cond);
}

void
recursive_lock_destroy(pTHX_ recursive_lock_t *lock)
{
    MUTEX_DESTROY(&lock->mutex);
    COND_DESTROY(&lock->cond);
}

void
recursive_lock_release(pTHX_ recursive_lock_t *lock)
{
    MUTEX_LOCK(&lock->mutex);
    if (lock->owner == aTHX) {
        if (--lock->locks == 0) {


lock->owner = NULL;
COND_SIGNAL(&lock->cond);
}
}
MUTEX_UNLOCK(&lock->mutex);
}

void recursive_lock_acquire(pTHX_ recursive_lock_t *lock, char *file, int line)
{
  PERL_UNUSED_ARG(file);
  PERL_UNUSED_ARG(line);
  assert(aTHX);
  MUTEX_LOCK(&lock->mutex);
  if (lock->owner == aTHX) {
    lock->locks++;
  } else {
    while (lock->owner) {
#ifdef DEBUG_LOCKS
      Perl_warn(aTHX_ " %p waiting - owned by %p %s:%d\n",
        aTHX, lock->owner, lock->file, lock->line);
#endif
      COND_WAIT(&lock->cond,&lock->mutex);
    }
    lock->locks = 1;
    lock->owner = aTHX;
#ifdef DEBUG_LOCKS
    lock->file = file;
    lock->line = line;
#endif
  }
  MUTEX_UNLOCK(&lock->mutex);
  SAVEDESTROYER_X(recursive_lock_release,lock);
}

#define ENTER_LOCK
STMT_START { ENTER;
  recursive_lock_acquire(aTHX_ &PL_sharedsv_lock, __FILE__, __LINE__);
} STMT_END

/* The unlocking is done automatically at scope exit */
#define LEAVE_LOCK  LEAVE

/* A common idiom is to acquire access and switch in ... */
#define SHARED_EDIT
STMT_START {


/* ... then switch out and release access. */
#define SHARED_RELEASE \
STMT_START { \ 
   CALLER_CONTEXT; \ 
   LEAVE_LOCK; \ 
} STMT_END

/* User-level locks:
 This structure is attached (using ext magic) to any shared SV that
 is used by user-level locking or condition code */

typedef struct {
   recursive_lock_t lock; /* For user-level locks */
   perl_cond user_cond; /* For user-level conditions */
} user_lock;

/* Magic used for attaching user_lock structs to shared SVs */

The vtable used has just one entry - when the SV goes away
we free the memory for the above.

int
sharedsv_userlock_free(pTHX_ SV *sv, MAGIC *mg)
{
   user_lock *ul = (user_lock *) mg->mg_ptr;
   PERL_UNUSED_ARG(sv);
   assert(aTHX == PL_sharedsv_space);
   if (ul) {
      recursive_lock_destroy(aTHX_ &ul->lock);
      COND_DESTROY(&ul->user_cond);
      PerlMemShared_free(ul);
      mg->mg_ptr = NULL;
   }
   return (0);
}

MGVTBL sharedsv_userlock_vtbl = {
   0, /* get */
   0, /* set */
   0, /* len */
   0, /* clear */
sharedsv_userlock_free,  /* free */
0,                       /* copy */
0,                       /* dup */
#endif MGf_LOCAL
0,                       /* local */
#endif

/* Support for dual-valued variables */
#ifdef SVf_IVisUV
#define DUALVAR_FLAGS(sv)                           
  ((SvPOK(sv))                                    
    ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK        
      : ((SvIsUV(sv)) ? (SVf_IOK | SVf_IVisUV)    
      : ((SviOK(sv) || SviOKp(sv)) ? SVf_IOK : 0)))  
    : 0)
#else
#define DUALVAR_FLAGS(sv)                           
  ((SvPOK(sv))                                    
    ? ((SvNOK(sv) || SvNOKp(sv)) ? SVf_NOK        
      : ((SvIOK(sv) || SvIOKp(sv)) ? SVf_IOK : 0))  
    : 0)
#endif

/* Access to shared things is heavily based on MAGIC
   - in mg.h/mg.c/sv.c sense
*/

/* In any thread that has access to a shared thing there is a "proxy"
   for it in its own space which has 'MAGIC' associated which accesses
   the shared thing.
*/
extern MGVTBL sharedsv_scalar_vtbl;  /* Scalars have this vtable */
extern MGVTBL sharedsv_array_vtbl;   /* Hashes and arrays have this
   - like 'tie' */
extern MGVTBL sharedsv_elem_vtbl;    /* Elements of hashes and arrays have
   this _AS WELL AS_ the scalar magic:
   The sharedsv_elem_vtbl associates the element with the array/hash and
   the sharedsv_scalar_vtbl associates it with the value
*/

/* Get shared aggregate SV pointed to by threads::shared::tie magic object */
/* Return the user_lock structure (if any) associated with a shared SV.
* If create is true, create one if it doesn't exist
*/

STATIC user_lock *
S_get_userlock(pTHX_ SV* ssv, bool create)
{
    MAGIC *mg;
    user_lock *ul = NULL;

    assert(ssv);
    /* XXX Redesign the storage of user locks so we don't need a global
    * lock to access them ????? DAPM */
    ENTER_LOCK;

    /* Version of mg_find that also checks the private signature */
    for (mg = SvMAGIC(ssv); mg; mg = mg->mg_moremagic) {
        if ((mg->mg_type == PERL_MAGIC_ext) &&
            (mg->mg_private == UL_MAGIC_SIG))
            { break; }
    }

    if (mg) {
        ul = (user_lock*)(mg->mg_ptr);
    } else if (create) {
        dTHXc;
        SHARED_CONTEXT;
        ul = (user_lock *) PerlMemShared_malloc(sizeof(user_lock));
        Zero(ul, 1, user_lock);
        /* Attach to shared SV using ext magic */
        mg = sv_magicext(ssv, NULL, PERL_MAGIC_ext, &sharedsv_userlock_vtbl,
                         (char *)&ul, 0);
        mg->mg_private = UL_MAGIC_SIG; /* Set private signature */
        recursive_lock_init(aTHX_ &ul->lock);
        COND_INIT(&ul->user_cond);
        CALLER_CONTEXT;
    }
    LEAVE_LOCK;
    return (ul);
}

/* Given a private side SV tries to find if the SV has a shared backend,
* by looking for the magic.
*/
/* 
SV *
Perl_sharedsv_find(pTHX_ SV *sv)
{
    MAGIC *mg; 
    if (SvTYPE(sv) >= SVt_PVMG) {
        switch(SvTYPE(sv)) {
            case SVt_PVAV:
            case SVt_PVHV:
                if ((mg = mg_find(sv, PERL_MAGIC_tied)) 
                    && mg->mg_virtual == &sharedsv_array_vtbl) { 
                    return ((SV *)mg->mg_ptr); 
                } 
                break;
            default:
                /* This should work for elements as well as they 
                 * have scalar magic as well as their element magic 
                 */
                if ((mg = mg_find(sv, PERL_MAGIC_shared_scalar)) 
                    && mg->mg_virtual == &sharedsv_scalar_vtbl) { 
                    return ((SV *)mg->mg_ptr); 
                } 
                break;
            }
        }
        /* Just for tidyness of API also handle tie objects */
        if (SvROK(sv) && sv_derived_from(sv, "threads::shared::tie")) { 
            return (SHAREDSV_FROM_OBJ(sv)); 
        }
        return (NULL); 
    }

    /* Associate a private SV with a shared SV by pointing the appropriate 
     * magics at it. 
     * Assumes lock is held. 
     */
    void 
Perl_sharedsv_associate(pTHX_ SV *sv, SV *ssv)
    {
        MAGIC *mg = 0;

        /* If we are asked for any private ops we need a thread */
        assert ( aTHX != PL_sharedsv_space );

        /* To avoid need for recursive locks require caller to hold lock */
        assert ( PL_sharedsv_lock.owner == aTHX );
    }
switch(SvTYPE(sv)) {  
case SVt_PVAV:

case SVt_PVHV:
    if (!(mg = mg_find(sv, PERL_MAGIC_tied))  
          || mg->mg_virtual != &sharedsv_array_vtbl  
          || (SV*) mg->mg_ptr != ssv)  
    {  
        SV *obj = newSV(0);  
        sv_setref_pv(obj, "threads::shared::tie", PTR2IV(ssv));  
        if (mg) {  
            sv_unmagic(sv, PERL_MAGIC_tied);  
        }  
        mg = sv_magicext(sv, obj, PERL_MAGIC_tied, &sharedsv_array_vtbl,  
                         (char *)ssv, 0);  
        mg->mg_flags |= (MGf_COPY|MGl Dup);  
        SvREFCNT_inc_void(ssv);  
        SvREFCNT_dec(obj);  
    }
    break;

default:
    if ((SvTYPE(sv) < SVt_PVMG)  
          || !(mg = mg_find(sv, PERL_MAGIC_shared_scalar))  
          || mg->mg_virtual != &sharedsv_scalar_vtbl  
          || (SV*) mg->mg_ptr != ssv)  
    {  
        if (mg) {  
            sv_unmagic(sv, PERL_MAGIC_shared_scalar);  
        }  
        mg = sv_magicext(sv, Nullsv, PERL_MAGIC_shared_scalar,  
                         &sharedsv_scalar_vtbl, (char *)ssv, 0);  
        mg->mg_flags |= (MGf_DUP  
                        #ifdef MGf_LOCAL  
                           |MGf_LOCAL  
                        #endif  
                        );  
        SvREFCNT_inc_void(ssv);  
    }
    break;
}

assert ( Perl_sharedsv_find(aTHX_ sv) == ssv );

/* Given a private SV, create and return an associated shared SV.  
 * Assumes lock is held.  
 */
STATIC SV *
S_sharedsv_new_shared(pTHX_ SV *sv)
{
    dTHXc;
    SV *ssv;

    assert(PL_sharedsv_lock.owner == aTHX);
    assert(aTHX != PL_sharedsv_space);

    SHARED_CONTEXT;
    ssv = newSV(0);
    SvREFCNT(ssv) = 0; /* Will be upped to 1 by Perl_sharedsv_associate */
    sv_upgrade(ssv, SvTYPE(sv));
    CALLER_CONTEXT;
    Perl_sharedsv_associate(aTHX_ sv, ssv);
    return (ssv);
}

/* Given a shared SV, create and return an associated private SV.
 * Assumes lock is held.
 */
STATIC SV *
S_sharedsv_new_private(pTHX_ SV *ssv)
{
    SV *sv;
    assert(PL_sharedsv_lock.owner == aTHX);
    assert(aTHX != PL_sharedsv_space);

    sv = newSV(0);
    sv_upgrade(sv, SvTYPE(ssv));
    Perl_sharedsv_associate(aTHX_ sv, ssv);
    return (sv);
}

/* A threadsafe version of SvREFCNT_dec(ssv) */

STATIC void
S_sharedsv_dec(pTHX_ SV* ssv)
{
    if (!ssv)
        return;
    ENTER_LOCK;
    if (SvREFCNT(ssv) > 1) {
        /* No side effects, so can do it lightweight */
        SvREFCNT_dec(ssv);
    }
/* Implements Perl-level share() and :shared */

void Perl_sharedsv_share(pTHX_ SV *sv)
{
    switch(SvTYPE(sv)) {
    case SVt_PVGV:
        Perl_croak(aTHX_ "Cannot share globs yet");
        break;
    case SVt_PVCV:
        Perl_croak(aTHX_ "Cannot share subs yet");
        break;
    default:
        ENTER_LOCK;
        (void) S_sharedsv_new_shared(aTHX_ sv);
        LEAVE_LOCK;
        SvSETMAGIC(sv);
        break;
    }
}

#ifdef WIN32
/* Number of milliseconds from 1/1/1601 to 1/1/1970 */
#define EPOCH_BIAS 11644473600000.

/* Returns relative time in milliseconds.  (Adapted from Time::HiRes.) */
STATIC DWORD S_abs_2_rel_milli(double abs)
{
    double rel;

    /* Get current time (in units of 100 nanoseconds since 1/1/1601) */
    union {
        FILETIME ft;
        __int64  i64;  /*'signed' to keep compilers happy */
    }
GetSystemTimeAsFileTime(&now.ft);

/* Relative time in milliseconds */
rel = (abs * 1000.) - (((double)now.f64 / 10000.) - EPOCH_BIAS);
if (rel <= 0.0) {
    return (0);
}
return (DWORD)rel;

#else
    #if defined(OS2)
        # define ABS2RELMILLI(abs)             
            do {                                
                abs -= (double)time(NULL);      
                if (abs > 0) { abs *= 1000; }   
                else         { abs  = 0;    }   
            } while (0)
    # endif /* OS2 */
    #endif /* WIN32 */

    /* Do OS-specific condition timed wait */

bool
Perl_sharedsv_cond_timedwait(perl_cond *cond, perl_mutex *mut, double abs)
{
    #if defined(NETWARE) || defined(FAKE_THREADS) || defined(I_MACH_CTHREADS)
        Perl_croak_nocontext("cond_timedwait not supported on this platform");
    #else
        # ifdef WIN32
            int got_it = 0;
            cond->waiters++;;
            MUTEX_UNLOCK(mut);
            /* See comments in win32/win32thread.h COND_WAIT vis-a-vis race */
            switch (WaitForSingleObject(cond->sem, S_abs_2_rel_milli(abs))) {
                case WAIT_OBJECT_0:   got_it = 1; break;
                case WAIT_TIMEOUT:                break;
                default:
                    /* WAIT_FAILED? WAIT_ABANDONED? others? */
                    Perl_croak_nocontext("panic: cond_timedwait (%ld).GetLastError()");
                    break;
            }
            MUTEX_LOCK(mut);
            cond->waiters--;
            return (got_it);
# else
# ifdef OS2
int rc, got_it = 0;
STRLEN n_a;

ABS2RELMILLI(abs);

if ((rc = DosResetEventSem(*cond,&n_a)) && (rc != ERROR_ALREADY_RESET))
    Perl_rc = rc, croak_with_os2error("panic: cond_timedwait-reset");
MUTEX_UNLOCK(mut);
if (CheckOSError(DosWaitEventSem(*cond,abs))
    && (rc != ERROR_INTERRUPT))
    croak_with_os2error("panic: cond_timedwait");
if (rc == ERROR_INTERRUPT) errno = EINTR;
MUTEX_LOCK(mut);
return (got_it);
#else /* Hope you’re I_PTHREAD! */
struct timespec ts;
int got_it = 0;

ts.tv_sec = (long)abs;
abs -= (NV)ts.tv_sec;
nts.tv_nsec = (long)(abs * 1000000000.0);

switch (pthread_cond_timedwait(cond, mut, &ts)) {
    case 0: got_it = 1; break;
    case ETIMEDOUT: break;
    #ifdef OEMVS
    case -1:
        if (errno == ETIMEDOUT || errno == EAGAIN)
            break;
    #endif
    default:
        Perl_croak_nocontext("panic: cond_timedwait");
        break;
    }
return (got_it);
#endif /* OS2 */
#endif /* WIN32 */
#endif /* NETWARE || FAKE_THREADS || I_MACH_CTHREADS */

/* Given a thingy referenced by a shared RV, copy it’s value to a private
 * RV, also copying the object status of the referent.
 * If the private side is already an appropriate RV->SV combination, keep
 * it if possible.
 */
STATIC void
S_get_RV(pTHX_ SV *sv, SV *sobj) {
    SV *obj;
    if (! (SvROK(sv) &&
            ((obj = SvRV(sv))) &&
            (Perl_sharedsv_find(aTHX_ obj) == sobj) &&
            (SvTYPE(obj) == SvTYPE(sobj)))))
    {
        /* Can't reuse obj */
        if (SvROK(sv)) {
            SvREFCNT_dec(SvRV(sv));
        } else {
            assert(SvTYPE(sv) >= SVt_RV);
            sv_setsv_nomg(sv, &PL_sv_undef);
            SvROK_on(sv);
        }
        obj = S_sharedsv_new_private(aTHX_ sobj);
        SvRV_set(sv, obj);
    }
    if (SvOBJECT(obj)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(obj));
        SvOBJECT_off(obj);
    }
    if (SvOBJECT(sobj)) {
        /* Add any new old blessing */
        STRLEN len;
        char* stash_ptr = SvPV((SV*) SvSTASH(sobj), len);
        HV* stash = gv_stashpvn(stash_ptr, len, TRUE);
        SvOBJECT_on(obj);
        SvSTASH_set(obj, (HV*)SvREFCNT_inc(stash));
    }
}

/* Every caller of S_get_RV needs this incantation (which cannot go inside
 S_get_RV itself, as we do not want recursion beyond one level): */
#define get_RV(sv, sobj)                     \
    S_get_RV(aTHX_ sv, sobj); \ 
    /* Look ahead for refs of refs */\ 
    if (SvROK(sobj)) { \ 
        SvROK_on(SvRV(sv)); \ 
        S_get_RV(aTHX_ SvRV(sv), SvRV(sobj)); \ 
    }

/* ------------- PERL_MAGIC_shared_scalar(n) functions ------------- */
/* Get magic for PERL_MAGIC_shared_scalar(n) */

int
sharedsv_scalar_mg_get(pTHX_ SV *sv, MAGIC *mg)
{
  SV *ssv = (SV *) mg->mg_ptr;
  assert(ssv);

  ENTER_LOCK;
  if (SvROK(ssv)) {
    get_RV(sv, SvRV(ssv));
  } else {
    sv_setsv_nomg(sv, ssv);
  }
  LEAVE_LOCK;
  return (0);
}
/* Copy the contents of a private SV to a shared SV.
 * Used by various mg_set()-type functions.
 * Assumes lock is held.
 */
void
sharedsv_scalar_store(pTHX_ SV *sv, SV *ssv)
{
  dTHXc;
  bool allowed = TRUE;

  assert(PL_sharedsv_lock.owner == aTHX);
  if (!PL_dirty && SvROK(ssv) && SvREFCNT(SvRV(ssv)) == 1) {
    SV *sv = sv_newmortal();
    sv_upgrade(sv, SVt_RV);
    get_RV(sv, SvRV(ssv));
  }
  if (SvROK(sv)) {
    SV *obj = SvRV(sv);
    SV *sobj = Perl_sharedsv_find(aTHX_ obj);
    if (sobj) {
      SVR_set(ssv, SvREFCNT_inc(sobj));
      SvROK_on(ssv);
      if (SvOBJECT(sobj)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(sobj));
        SvOBJECT_off(sobj);
      }
    }
  }
if (SvOBJECT(obj)) {
    SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(obj)),0);
    SvOBJECT_on(obj);
    SvSTASH_set(obj, (HV*)fake_stash);
}
CALLER_CONTEXT;
} else {
    allowed = FALSE;
}
}
} else {
    SvTEMP_off(sv);
    SHARED_CONTEXT;
    sv_setsv_nomg(ssv, sv);
    if (SvOBJECT(ssv)) {
        /* Remove any old blessing */
        SvREFCNT_dec(SvSTASH(ssv));
        SvOBJECT_off(ssv);
    }
    if (SvOBJECT(sv)) {
        SV* fake_stash = newSVpv(HvNAME_get(SvSTASH(sv)),0);
        SvOBJECT_on(ssv);
        SvSTASH_set(ssv, (HV*)fake_stash);
    }
    CALLER_CONTEXT;
} else {
    Perl_croak(aTHX_ "Invalid value for shared scalar");
}

/* Set magic for PERL_MAGIC_shared_scalar(n) */

int
sharedsv_scalar_mg_set(pTHX_ SV *sv, MAGIC *mg)
{
    SV *ssv = (SV*)(mg->mg_ptr);
    assert(ssv);
    ENTER_LOCK;
    if (SvTYPE(ssv) < SvTYPE(sv)) {
        dTHXc;
        SHARED_CONTEXT;
        sv_upgrade(ssv, SvTYPE(sv));
        CALLER_CONTEXT;
    }
    sharedsv_scalar_store(aTHX_ sv, ssv);
    LEAVE_LOCK;
    return (0);
int sharedsv_scalar_mg_free(pTHX_ SV *sv, MAGIC *mg)
{
    PERL_UNUSED_ARG(sv);
    ENTER_LOCK;
    if (!PL_dirty && SvROK((SV *)mg->mg_ptr) && SvREFCNT((SV *)mg->mg_ptr) == 1) {
        SV *sv = sv_newmortal();
        sv_upgrade(sv, SVt_RV);
        get_RV(sv, SvRV((SV *)mg->mg_ptr));
    }
    S_sharedsv_dec(aTHX_ (SV*)mg->mg_ptr);
    LEAVE_LOCK;
    return (0);
}

int sharedsv_scalar_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(mg->mg_ptr);
    return (0);
}

#ifdef MGf_LOCAL

int sharedsv_scalar_mg_local(pTHX_ SV* nsv, MAGIC *mg)
{
    MAGIC *nmg;
    SV *ssv = (SV *) mg->mg_ptr;
    if (ssv) {
        ENTER_LOCK;
        SvREFCNT_inc_void(ssv);
        LEAVE_LOCK;
    }
    nmg = sv_magicext(nsv, mg->mg_obj, mg->mg_type, mg->mg_virtual,
                     mg->mg_ptr, mg->mg_len);
    nmg->mg_flags = mg->mg_flags;
}

#endif
nmg->mg_private = mg->mg_private;

    return (0);
}
#endif

MGVTBL sharedsv_scalar_vtbl = {
    sharedsv_scalar_mg_get,     /* get */
    sharedsv_scalar_mg_set,     /* set */
    0,                          /* len */
    0,                          /* clear */
    sharedsv_scalar_mg_free,    /* free */
    0,                          /* copy */
    sharedsv_scalar_mg_dup,     /* dup */
#ifdef MGf_LOCAL
    sharedsv_scalar_mg_local,   /* local */
#endif
};

/* ------------ PERL_MAGIC_tiedelem(p) functions -------------- */
/* Get magic for PERL_MAGIC_tiedelem(p) */

int
sharedsv_elem_mg_FETCH(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV** svp = NULL;

    ENTER_LOCK;
    if (saggregate) { /* During global destruction, underlying
        aggregate may no longer exist */
        if (SvTYPE(saggregate) == SVt_PVAV) {
            assert ( mg->mg_ptr == 0 );
            SHARED_CONTEXT;
            svp = av_fetch((AV*) saggregate, mg->mg_len, 0);
        } else {
            char *key = mg->mg_ptr;
            I32 len = mg->mg_len;
            assert ( mg->mg_ptr != 0 );
            if (mg->mg_len == HEf_SVKEY) {
                STRLEN slen;
                key = SvPV((SV *)mg->mg_ptr, slen);
                len = slen;
                if (SvUTF8((SV *)mg->mg_ptr)) {
                    len = -len;
                }
            } else {
                // Further logic...
            }
        }
    } else {
        // Further logic...
    }
    return (0);
}
#endif
if (svp) {
    /* Exists in the array */
    if (SvROK(*svp)) {
        get_RV(sv, SvRV(*svp));
    } else {
        /* Sary->[elem] or Sary->{elem} is a scalar */
        Perl_sharedsv_associate(aTHX_ sv, *svp);
        sv_setsv(sv, *svp);
    }
} else {
    /* Not in the array */
    sv_setsv(sv, &PL_sv_undef);
}

LEAVE_LOCK;
return (0);

/* Set magic for PERL_MAGIC_tiedelem(p) */

int
sharedsv_elem_mg_STORE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);
    SV **svp;
    U32 dualvar_flags = DUALVAR_FLAGS(sv);

    /* Theory - SV itself is magically shared - and we have ordered the 
    magic such that by the time we get here it has been stored 
    to its shared counterpart 
    */
    ENTER_LOCK;
    assert(saggregate);
    if (SvTYPE(saggregate) == SVt_PVAV) {
        assert ( mg->mg_ptr == 0 );
        SHARED_CONTEXT;
        svp = av_fetch((AV*) saggregate, mg->mg_len, 1);
    } else {
        char *key = mg->mg_ptr;
        I32 len = mg->mg_len;
        assert ( mg->mg_ptr != 0 );
        if (mg->mg_len == HEf_SVKEY) {  


}
```c
STRLEN slen;
key = SvPV((SV *)mg->mg_ptr, slen);
len = slen;
if (SvUTF8((SV *)mg->mg_ptr)) {
    len = -len;
}
}

SHAREDCONTEXT;
svp = hv_fetch((HV*) saggregate, key, len, 1);

CALLERCONTEXT;
Perl_sharedsv_associate(aTHX_ sv, *svp);
sharedsv_scalar_store(aTHX_ sv, *svp);
SvFLAGS(*svp) |= dualvar_flags;
LEAVE_LOCK;
return (0);

/* Clear magic for PERL_MAGIC_tiedelem(p) */

int sharedsv_elem_mg_DELETE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    MAGIC *shmg;
    SV *saggregate = SHAREDSV_FROM_OBJ(mg->mg_obj);

    /* Object may not exist during global destruction */
    if (! saggregate) {
        return (0);
    }

    ENTER_LOCK;
    sharedsv_elem_mg_FETCH(aTHX_ sv, mg);
    if ((shmg = mg_find(sv, PERL_MAGIC_shared_scalar)))
        sharedsv_scalar_mg_get(aTHX_ sv, shmg);
    if (SvTYPE(saggregate) == SVt_PVAV) {
        SHAREDCONTEXT;
        av_delete((AV*) saggregate, mg->mg_len, G_DISCARD);
    } else {
        char *key = mg->mg_ptr;
        I32 len = mg->mg_len;
        assert ( mg->mg_ptr != 0 );
        if (mg->mg_len == HEf_SVKEY) {
            STRLEN slen;
            key = SvPV((SV *)mg->mg_ptr, slen);
            len = slen;
            if (SvUTF8((SV *)mg->mg_ptr)) {
               ...
            }
        }
    }
}
```
len = -len;
}
}

/* Called during cloning of PERL_MAGIC_tiedelem(p) magic in new
* thread */

int
sharedsv_elem_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void(SHAREDSV_FROM_OBJ(mg->mg_obj));
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

MGVTBL sharedsv_elem_vtbl = {
    sharedsv_elem_mg_FETCH,     /* get */
    sharedsv_elem_mg_STORE,     /* set */
    0,                          /* len */
    sharedsv_elem_mg_DELETE,    /* clear */
    0,                          /* free */
    0,                          /* copy */
    sharedsv_elem_mg_dup,       /* dup */
    #ifdef MGf_LOCAL
    0,                          /* local */
    #endif
};

/* ------------ PERL_MAGIC_tied(P) functions -------------- */

/* Len magic for PERL_MAGIC_tied(P) */

U32
sharedsv_array_mg_FETCHSIZE(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV *ssv = (SV *) mg->mg_ptr;
    U32 val;
    PERL_UNUSED_ARG(sv);
    SHARED>Edit;
if (SvTYPE(ssv) == SVt_PVAV) {
    val = av_len((AV*) ssv);
} else {
    /* Not actually defined by tie API but ... */
    val = HvUSEDKEYS((HV*) ssv);
}
SHARED_RELEASE;
return (val);
}

/* Clear magic for PERL_MAGIC_tied(P) */

int
sharedsv_array_mg_CLEAR(pTHX_ SV *sv, MAGIC *mg)
{
    dTHXc;
    SV **svp = (SV *) mg->mg_ptr;
    const bool isav = SvTYPE(ssv) == SVt_PVAV;
    PERL_UNUSED_ARG(sv);
    SHARED_EDIT;
    if (!PL_dirty) {
        SV **svp = isav ? AvARRAY((AV *)ssv) : NULL;
        I32 items = isav ? AvFILLp((AV *)ssv) + 1 : 0;
        HE *iter;
        if (!isav) hv_iterinit((HV *)ssv);
        while (isav ? items-- : !!(iter = hv_iternext((HV *)ssv))) {
            SV *sv = isav ? *svp++ : HeVAL(iter);
            if (!sv) continue;
            if ( (SvOBJECT(sv) || (SvROK(sv) && (sv = SvRV(sv))))
                && SvREFCNT(sv) == 1 ) {
                SV *tmp = Perl_sv_newmortal(caller_perl);
                PERL_SET_CONTEXT((aTHX = caller_perl));
                sv_upgrade(tmp, SVt_RV);
                get_RV(tmp, sv);
                PERL_SET_CONTEXT((aTHX = PL_sharedsv_space));
            }
        }
    }
    if (isav) av_clear((AV*) ssv);
    else      hv_clear((HV*) ssv);
    SHARED_RELEASE;
    return (0);
}

/* Free magic for PERL_MAGIC_tied(P) */

int
sharedsv_array_mg_free(pTHX_ SV *sv, MAGIC *mg)
/*
 * Copy magic for PERL_MAGIC_tied(P)
 * This is called when perl is about to access an element of
 * the array -
 */
#if PERL_VERSION >= 11
int
sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
                     SV *nsv, const char *name, I32 namlen)
#else
int
sharedsv_array_mg_copy(pTHX_ SV *sv, MAGIC* mg,
                     SV *nsv, const char *name, int namlen)
#endif
{
    MAGIC *nmg = sv_magicext(nsv,mg->mg_obj,
                           toLOWER(mg->mg_type),&sharedsv_elem_vtbl,
                           name, namlen);
    PERL_UNUSED_ARG(sv);
    nmg->mg_flags |= MGf_DUP;
    return (1);
}

/* Called during cloning of PERL_MAGIC_tied(P) magic in new thread */

int
sharedsv_array_mg_dup(pTHX_ MAGIC *mg, CLONE_PARAMS *param)
{
    PERL_UNUSED_ARG(param);
    SvREFCNT_inc_void((SV*)mg->mg_ptr);
    assert(mg->mg_flags & MGf_DUP);
    return (0);
}

MGVTBL sharedsv_array_vtbl = {
    0,    /* get */
    0,    /* set */
    sharedsv_array_mg_FETCHSIZE,/* len */
    sharedsv_array_mg_CLEAR,    /* clear */
    sharedsv_array_mg_free,     /* free */
    sharedsv_array_mg_copy,     /* copy */
    sharedsv_array_mg_dup,      /* dup */
}
#ifdef MGf_LOCAL
0,  /* local */
#endif
}

/* Recursively unlocks a shared sv. */

void
Perl_sharedsv_unlock(pTHX_ SV *ssv)
{
    user_lock *ul = S_get_userlock(aTHX_ ssv, 0);
    assert(ul);
    recursive_lock_release(aTHX_ &ul->lock);
}

/* Recursive locks on a sharedsv.
 * Locks are dynamically scoped at the level of the first lock.
 */
void
Perl_sharedsv_lock(pTHX_ SV *ssv)
{
    user_lock *ul;
    if (! ssv)
        return;
    ul = S_get_userlock(aTHX_ ssv, 1);
    recursive_lock_acquire(aTHX_ &ul->lock, __FILE__, __LINE__);
}

/* Handles calls from lock() builtin via PL_lockhook */

void
Perl_sharedsv_locksv(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    if (!ssv)
        croak("lock can only be used on shared values");
    Perl_sharedsv_lock(aTHX_ ssv);
}

/* Can a shared object be destroyed?
 * True if not a shared,
* or if destroying last proxy on a shared object
*/
#endif

Perl_shared_object_destroy(pTHX_ SV *sv)
{
    SV *ssv;

    if (SvROK(sv))
        sv = SvRV(sv);
    ssv = Perl_sharedsv_find(aTHX_ sv);
    return (!ssv || (SvREFCNT(ssv) <= 1));
}
#endif

/* veto signal dispatch if we have the lock */
#endif

STATIC despatch_signals_proc_t prev_signal_hook = NULL;

STATIC void
S_shared_signal_hook(pTHX) {
    int us;
    MUTEX_LOCK(&PL_sharedsv_lock.mutex);
    us = (PL_sharedsv_lock.owner == aTHX);
    MUTEX_UNLOCK(&PL_sharedsv_lock.mutex);
    if (us)
        return; /* try again later */
    prev_signal_hook(aTHX);
}
#endif

/* Saves a space for keeping SVs wider than an interpreter. */

void
Perl_sharedsv_init(pTHX)
{
    dTHXc;
    /* This pair leaves us in shared context ... */
    PL_sharedsv_space = perl_alloc();
    perl_construct(PL_sharedsv_space);
    LEAVE; /* This balances the ENTER at the end of perl_construct. */
    PERL_SET_CONTEXT((aTHX = caller_perl));
    recursive_lock_init(aTHX_ &PL_sharedsv_lock);
    PL_lockhook = &Perl_sharedsv_locksv;
    PL_sharehook = &Perl_sharedsv_share;
#endif

PL_destroyhook = &Perl_shared_object_destroy;
#endif
#endif PL_signalhook
if (!prev_signal_hook) {
    prev_signal_hook = PL_signalhook;
    PL_signalhook = &S_shared_signal_hook;
}
#endif /* USE_ITHREADS */

MODULE = threads::shared PACKAGE = threads::shared::tie

PROTOTYPES: DISABLE

#ifdef USE_ITHREADS

void
PUSH(SV *obj, ...)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
int ii;
for (ii = 1; ii < items; ii++) {
    SV* tmp = newSVsv(ST(ii));
    SV *stmp;
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
    ENTER_LOCK;
    stmp = S_sharedsv_new_shared(aTHX_ tmp);
    sharedsv_scalar_store(aTHX_ tmp, stmp);
    SvFLAGS(stmp) |= dualvar_flags;
    SHARED_CONTEXT;
    av_push((AV*) sobj, stmp);
    SvREFCNT_inc_void(stmp);
    SHARED_RELEASE;
    SvREFCNT_dec(tmp);
}

void
UNSHIFT(SV *obj, ...)
CODE:
dTHXc;
SV *sobj = SHAREDSV_FROM_OBJ(obj);
int ii;
ENTER_LOCK;
SHARED_CONTEXT;
av_unshift((AV*)obj, items - 1);
CALLERCONTEXT;
for (ii = 1; ii < items; ii++) {
    SV *tmp = newsvsv(ST(ii));
    U32 dualvar_flags = DUALVAR_FLAGS(tmp);
    SV *stmp = S_sharedsv_new_shared(aTHX_tmp);
    sharedsv_scalar_store(aTHX_tmp, stmp);
    SHAREDCONTEXT;
    SvFLAGS(stmp) |= dualvar_flags;
    av_store((AV*) sobj, ii - 1, stmp);
    SvREFCNT_inc_void(stmp);
    CALLERCONTEXT;
    SvREFCNT_dec(tmp);
}
LEAVE_LOCK;

void
POP(SV *obj)
CODE:
dTHXc;
SV *obj = SHAREDSV_FROM_OBJ(obj);
SV* ssv;
ENTER_LOCK;
SHAREDCONTEXT;
ssv = av_pop((AV*)obj);
CALLERCONTEXT;
ST(0) = sv_newmortal();
Perl_sharedsv_associate(aTHX_ST(0), ssv);
SvREFCNT_dec(ssv);
LEAVE_LOCK;
/* XSRETURN(1); - implied */

void
SHIFT(SV *obj)
CODE:
dTHXc;
SV *obj = SHAREDSV_FROM_OBJ(obj);
SV* ssv;
ENTER_LOCK;
SHAREDCONTEXT;
ssv = av_shift((AV*)obj);
CALLERCONTEXT;
ST(0) = sv_newmortal();
Perl_sharedsv_associate(aTHX_ST(0), ssv);
SvREFCNT_dec(ssv);
LEAVE_LOCK;
void EXTEND(SV *obj, IV count)
CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   SHARED_EDIT;
   av_extend((AV*)sobj, count);
   SHARED_RELEASE;

void STORESIZE(SV *obj, IV count)
CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   SHARED_EDIT;
   av_fill((AV*)sobj, count);
   SHARED_RELEASE;

void EXISTS(SV *obj, SV *index)
CODE:
   dTHXc;
   SV *sobj = SHAREDSV_FROM_OBJ(obj);
   bool exists;
   if (SvTYPE(sobj) == SVt_PVAV) {
      SHARED_EDIT;
      exists = av_exists((AV*)sobj, SvIV(index));
   } else {
      I32 len;
      STRLEN slen;
      char *key = SvPVutf8(index, slen);
      len = slen;
      if (SvUTF8(index)) {
         len = -len;
      }
      SHARED_EDIT;
      exists = hv_exists((HV*)sobj, key, len);
   }
   SHARED_RELEASE;
   ST(0) = (exists) ? &PL_sv_yes : &PL_sv_no;
   /* XSRETURN(1); - implied */
void
FIRSTKEY(SV *obj)

CODE:
  dTHXc;
  SV *sobj = SHARED Sv_FROM_OBJ(obj);
  char* key = NULL;
  I32 len = 0;
  HE* entry;
  ENTER_LOCK;
  SHARED_CONTEXT;
  hv_iterinit((HV*) sobj);
  entry = hv_iternext((HV*) sobj);
  if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLERCONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
  } else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
  }
  LEAVE_LOCK;
  /* XSRETURN(1); - implied */

void
NEXTKEY(SV *obj, SV *oldkey)

CODE:
  dTHXc;
  SV *sobj = SHARED Sv_FROM_OBJ(obj);
  char* key = NULL;
  I32 len = 0;
  HE* entry;

  PERL_UNUSED_VAR(oldkey);

  ENTER_LOCK;
  SHARED_CONTEXT;
  entry = hv_iternext((HV*) sobj);
  if (entry) {
    I32 utf8 = HeKUTF8(entry);
    key = hv_iterkey(entry,&len);
    CALLER_CONTEXT;
    ST(0) = newSVpvn_flags(key, len, SVs_TEMP | (utf8 ? SVf_UTF8 : 0));
  } else {
    CALLER_CONTEXT;
    ST(0) = &PL_sv_undef;
  }
LEAVE_LOCK;
/* XSRETURN(1); - implied */

MODULE = threads::shared   PACKAGE = threads::shared

PROTOTYPES: ENABLE

void
_id(SV *myref)
PROTOTYPE: \[$@%]
PREINIT:
  SV *ssv;
CODE:
  myref = SvRV(myref);
  if (SvMAGICAL(myref))
    mg_get(myref);
  if (SvROK(myref))
    myref = SvRV(myref);
  ssv = Perl_sharedsv_find(aTHX_ myref);
  if (! ssv)
    XSRETURN_UNDEF;
  ST(0) = sv_2mortal(newSVuv(PTR2UV(ssv)));
/* XSRETURN(1); - implied */

void
_refcnt(SV *myref)
PROTOTYPE: \[$@%]
PREINIT:
  SV *ssv;
CODE:
  myref = SvRV(myref);
  if (SvROK(myref))
    myref = SvRV(myref);
  ssv = Perl_sharedsv_find(aTHX_ myref);
  if (! ssv) {
    if (ckWARN(WARN_THREADS)) {
      Perl_warner(aTHX_ packWARN(WARN_THREADS),
                   "%" SVf " is not shared", ST(0));
    }
    XSRETURN_UNDEF;
  }
  ST(0) = sv_2mortal(newSViv(SvREFCNT(ssv)));
/* XSRETURN(1); - implied */

void
share(SV *myref)

PROTOTYPE: |

CODE:
if (! SvROK(myref))
    Perl_croak(aTHX_ "Argument to share needs to be passed as ref");
myref = SvRV(myref);
if (SvROK(myref))
    myref = SvRV(myref);
Perl_sharedsv_share(aTHX_ myref);
ST(0) = sv_2mortal(newRV_inc(myref));

/* XSRETURN(1); - implied */

void
cond_wait(SV *ref_cond, SV *ref_lock = 0)

PROTOTYPE: |

PREINIT:

CODE:
if (!SvROK(ref_cond))
    Perl_croak(aTHX_ "Argument to cond_wait needs to be passed as ref");
ref_cond = SvRV(ref_cond);
if (SvROK(ref_cond))
    ref_cond = SvRV(ref_cond);
ssv = Perl_sharedsv_find(aTHX_ ref_cond);
if (! ssv)
    Perl_croak(aTHX_ "cond_wait can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);

user_condition = &ul->user_cond;
if (ref_lock && (ref_cond != ref_lock)) {
    if (!SvROK(ref_lock))
        Perl_croak(aTHX_ "cond_wait lock needs to be passed as ref");
    ref_lock = SvRV(ref_lock);
    if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
    ssv = Perl_sharedsv_find(aTHX_ ref_lock);
    if (! ssv)
        Perl_croak(aTHX_ "cond_wait lock must be a shared value");
    ul = S_get_userlock(aTHX_ ssv, 1);
}
if (ul->lock.owner != aTHX)
croak("You need a lock before you can cond_wait");

/* Stealing the members of the lock object worries me - NI-S */
MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;

/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
COND_WAIT(user_condition, &ul->lock.mutex);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

int
cond_timedwait(SV *ref_cond, double abs, SV *ref_lock = 0)
PROTOTYPE: \[$@\%]S;\[$@\%
PREINIT:
    SV *ssv;
    perl_cond* user_condition;
    int locks;
    user_lock *ul;
CODE:
    if (! SvROK(ref_cond))
        Perl_croak(aTHX_ "Argument to cond_timedwait needs to be passed as ref");
    ref_cond = SvRV(ref_cond);
    if (SvROK(ref_cond))
        ref_cond = SvRV(ref_cond);
    ssv = Perl_sharedsv_find(aTHX_ ref_cond);
    if (! ssv)
        Perl_croak(aTHX_ "cond_timedwait can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);

    user_condition = &ul->user_cond;
    if (ref_lock && (ref_cond != ref_lock)) {
        if (! SvROK(ref_lock))
            Perl_croak(aTHX_ "cond_timedwait lock needs to be passed as ref");
        ref_lock = SvRV(ref_lock);
        if (SvROK(ref_lock)) ref_lock = SvRV(ref_lock);
        ssv = Perl_sharedsv_find(aTHX_ ref_lock);
        if (! ssv)
            Perl_croak(aTHX_ "cond_timedwait lock must be a shared value");
        ul = S_get_userlock(aTHX_ ssv, 1);
    }
    if (ul->lock.owner != aTHX)
Perl_croak(aTHX_ "You need a lock before you can cond_wait");

MUTEX_LOCK(&ul->lock.mutex);
ul->lock.owner = NULL;
locks = ul->lock.locks;
ul->lock.locks = 0;
/* Since we are releasing the lock here, we need to tell other
 * people that it is ok to go ahead and use it */
COND_SIGNAL(&ul->lock.cond);
RETVAL = Perl_sharedsv_cond_timedwait(user_condition, &ul->lock.mutex, abs);
while (ul->lock.owner != NULL) {
    /* OK -- must reacquire the lock... */
    COND_WAIT(&ul->lock.cond, &ul->lock.mutex);
}
ul->lock.owner = aTHX;
ul->lock.locks = locks;
MUTEX_UNLOCK(&ul->lock.mutex);

if (RETVAL == 0)
    XSRETURN_UNDEF;

OUTPUT:
    RETVAL

void
cond_signal(SV *myref)
PROTOTYPE: |$@%
PREINIT:
    SV *ssv;
    user_lock *ul;
CODE:
    if (! SvROK(myref))
        Perl_croak(aTHX_ "Argument to cond_signal needs to be passed as ref");
    myref = SvRV(myref);
    if (SvROK(myref))
        myref = SvRV(myref);
    ssv = Perl_sharedsv_find(aTHX_ myref);
    if (! ssv)
        Perl_croak(aTHX_ "cond_signal can only be used on shared values");
    ul = S_get_userlock(aTHX_ ssv, 1);
    if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
        Perl_warner(aTHX_ packWARN(WARN_THREADS),
            "cond_signal() called on unlocked variable");
    }
    COND_SIGNAL(&ul->user_cond);

void
cond_broadcast(SV *myref)
PROTOTYPE: [$@%]
PREINIT:
SV *ssv;
user_lock *ul;
CODE:
if (! SvROK(myref))
    Perl_croak(aTHX_ "Argument to cond_broadcast needs to be passed as ref");
myref = SvRV(myref);
if (SvROK(myref))
    myref = SvRV(myref);
ssv = Perl_sharedsv_find(aTHX_ myref);
if (! ss
    Perl_croak(aTHX_ "cond_broadcast can only be used on shared values");
ul = S_get_userlock(aTHX_ ssv, 1);
if (ckWARN(WARN_THREADS) && ul->lock.owner != aTHX) {
    Perl_warner(aTHX_ packWARN(WARN_THREADS),
        "cond_broadcast() called on unlocked variable");
}
COND_BROADCAST(&ul->user_cond);

void
bless(SV* myref, ...)
PROTOTYPE: $;$
PREINIT:
HV* stash;
SV *ssv;
CODE:
if (items == 1) {
    stash = CopSTASH(PL_curcop);
} else {
    SV* classname = ST(1);
    STRLEN len;
    char *ptr;

    if (classname &&
        ! SvGMAGICAL(classname) &&
        ! SvAMAGIC(classname) &&
        SvROK(classname))
    {
        Perl_croak(aTHX_ "Attempt to bless into a reference");
    }
    ptr = SvPV(classname, len);
    if (ckWARN(WARN_MISC) && len == 0) {
        Perl_warner(aTHX_ packWARN(WARN_MISC),
            "Explicit blessing to " (assuming package main");
    }
stash = gv_stashpvn(ptr, len, TRUE);
}
SvREFCNT_inc_void(myref);
(void)sv_bless(myref, stash);
ST(0) = sv_2mortal(myref);

sv = Perl_sharedsv_find(aTHX_myref);
if (sv) {
    dTHXc;
    ENTER_LOCK;
    SHARED_CONTEXT;
    {
        SV* fake_stash = newSVpv(HvNAME_get(stash), 0);
        (void)sv_bless(sv, (HV*)fake_stash);
    }
    CALLER_CONTEXT;
    LEAVE_LOCK;
}

/* XSRETURN(1); - implied */

#endif /* USE_ITHREADS */

BOOT: /* USE_ITHREADS */
{
    #ifdef USE_ITHREADS
        Perl_sharedsv_init(aTHX);
    #endif /* USE_ITHREADS */
}

Found in path(s):
* /opt/cola/permits/114834553_1619429655.49/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-UfoFzU0Y/threads-shared-1.43.tar.gz-cosi-expand-archive-0L1xRgMc/threads-shared-1.43/shared.xs
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl extension for sharing data structures between threads'
author:
  - 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>''
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.64, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
name: threads-shared
no_index:
directory:
  - t
  - inc
requires:
  Carp: 0
  Config: 0
  ExtUtils::testlib: 0
  Scalar::Util: 0
  Test: 0
  Test::More: 0
  XSLoader: 0
  strict: 0
  threads: 1.73
  warnings: 0
  version: 1.43

Found in path(s):
* /opt/cola/permits/1148334553_1619429655.49/0/perl-threads-shared-1.43-6.el7-1.src.rpm-cosi-expand-archive-UfoFzU0Y/threads-shared-1.43.tar.gz-cosi-expand-archive-0LlxRgMc/threads-shared-1.43/META.yml

1.2129 iconv 2.17

1.2129.1 Available under license:

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(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
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on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
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that they refer to the ordinary GNU General Public License, version 2,
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that copy, so the ordinary GNU General Public License applies to all
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
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Appendix: How to Apply These Terms to Your New Libraries

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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.2130 totem-pl-parser 3.26.1-1.el7
1.2130.1 Available under license:

# The Totem Playlist parser library "pl-parser" is licensed under the terms
# of the LGPL. This includes the files starting with totem-pl-parser* in the
# plparse directory. See GNOME Bugzilla bug 164193 for details.

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2,
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
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10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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25. [26]Jeff Johnson <sby@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
[28] <H.Lambermont@chello.nl> ntpswep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
(driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote snmp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@acs.ubc.ca> SunOS 5.1 port
34. [37]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
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42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <rneal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automate/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
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56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase, Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing (libseccomp) support
58. [62] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
59. [63] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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{
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* This class is generated by JavaCC from a grammar file.
*/
public class FMParser {

// Necessary for adding macros and setting location info.
Template template;
private String templateName;

// variables that keep track of whether we are in a loop or a switch.
private int loopNesting, switchNesting;
private boolean inMacro, inFunction, stripWhitespace, stripText;
private LinkedList escapes = new LinkedList();
private int contentNesting; // for stripText

/**
* Create an FM expression parser using a string.
*/
static public FMParser createExpressionParser(String s) {
    SimpleCharStream scs = new SimpleCharStream(new StringReader(s), 1, 1, s.length());
    FMParserTokenManager token_source = new FMParserTokenManager(scs);
    token_source.SwitchTo(FMParserConstants.FM_EXPRESSION);
    return new FMParser(token_source);
}

/**
* Constructs a new parser object.
* @param template The template associated with this parser.
* @param reader The character stream to use as input
* @param strictEscapeSyntax Whether FreeMarker directives must start with a #
public FMParser(Template template, Reader reader, boolean strictEscapeSyntax, boolean stripWhitespace) {
    this(reader);
    this.template = template;
    token_source.strictEscapeSyntax = strictEscapeSyntax;
    this.templateName = template != null ? template.getName() : "";
    token_source.templateName = templateName;
    this.stripWhitespace = stripWhitespace;
}
public FMParser(Template template, Reader reader, boolean strictEscapeSyntax, boolean stripWhitespace, int tagSyntax) {
    this(template, reader, strictEscapeSyntax, stripWhitespace);
    switch (tagSyntax) {
        case Configuration.AUTO_DETECT_TAG_SYNTAX :
            token_source.autodetectTagSyntax = true;
            break;
        case Configuration.ANGLE_BRACKET_TAG_SYNTAX :
            token_source.altDirectiveSyntax = false;
            break;
        case Configuration.SQUARE_BRACKET_TAG_SYNTAX :
            token_source.altDirectiveSyntax = true;
            break;
        default : throw new IllegalArgumentException("Illegal argument for tagSyntax");
    }
}
public FMParser(String template) {
    this(null, new StringReader(template), true, true);
}
private String getErrorStart(Token t) {
    return "Error in template: " + template.getName()
            + " on line " + t.beginLine + ", column " + t.beginColumn;
}
/**
 * Throw an exception if the expression passed in is a String
 * Literal
 */
private void notStringLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof StringLiteral) {
        String msg = "Error " + exp.getStartLocation()
                + "Found string literal: " + exp
                + "Expecting: " + expected;
        throw new ParseException(msg, exp);
    }
}
private void notNumberLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof NumberLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "Found number literal: " + exp.getCanonicalForm()
            + "Expecting " + expected;
        throw new ParseException(msg, exp);
    }
}

private void notBooleanLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof BooleanLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "Found: " + exp.getCanonicalForm()
            + "Expecting " + expected;
        throw new ParseException(msg, exp);
    }
}

private void notHashLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof HashLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "Found hash literal: " + exp.getCanonicalForm()
            + "Expecting " + expected;
        throw new ParseException(msg, exp);
    }
}

private void notListLiteral(Expression exp, String expected) throws ParseException {
    if (exp instanceof ListLiteral) {
        String msg = "Error " + exp.getStartLocation()
            + "Found list literal: " + exp.getCanonicalForm()
            + "Expecting " + expected;
        throw new ParseException(msg, exp);
    }
}
if (exp instanceof ListLiteral) {
    String msg = "Error " + exp.getStartLocation() + "Found list literal: " + exp.getCanonicalForm() + "Expecting " + expected;
    throw new ParseException(msg, exp);
}

/**
 * Throw an exception if the expression passed in is a literal
 * other than of the numerical type
 */
private void numberLiteralOnly(Expression exp) throws ParseException {
    notStringLiteral(exp, "number");
    notListLiteral(exp, "number");
    notHashLiteral(exp, "number");
    notBooleanLiteral(exp, "number");
}

/**
 * Throw an exception if the expression passed in is
 * not a string.
 */
private void stringLiteralOnly(Expression exp) throws ParseException {
    notNumberLiteral(exp, "number");
    notListLiteral(exp, "number");
    notHashLiteral(exp, "number");
    notBooleanLiteral(exp, "number");
}

/**
 * Throw an exception if the expression passed in is a literal
 * other than of the boolean type
 */
private void booleanLiteralOnly(Expression exp) throws ParseException {
    notStringLiteral(exp, "boolean (true/false)");
    notListLiteral(exp, "boolean (true/false)");
    notHashLiteral(exp, "boolean (true/false)");
    notNumberLiteral(exp, "boolean (true/false)");
}

private Expression escapedExpression(Expression exp) {
    if (!escapes.isEmpty()) {
        return ((EscapeBlock) escapes.getFirst()).doEscape(exp);
    }
    return exp;
}

private boolean getBoolean(Expression exp) throws ParseException {
    return exp.getBoolean();
}
```java
TemplateModel tm = null;
try {
    tm = exp.getAsTemplateModel(null);
} catch (Exception e) {
    throw new ParseException(e.getMessage()
        + "Could not evaluate expression: " + exp.getCanonicalForm() + exp.getStartLocation(), exp);
}
if (tm instanceof TemplateBooleanModel) {
    try {
        return ((TemplateBooleanModel) tm).getAsBoolean();
    } catch (TemplateModelException tme) {
    }
}
if (tm instanceof TemplateScalarModel) {
    try {
        return StringUtil.getYesNo(((TemplateScalarModel) tm).getAsString());
    } catch (Exception e) {
        throw new ParseException(e.getMessage() + "Expecting yes/no, found: " + exp.getCanonicalForm() + exp.getStartLocation(), exp);
    }
}
throw new ParseException("Expecting boolean (yes/no) parameter" + exp.getStartLocation(), exp);
```

/*
 * The lexer portion defines 5 lexical states:
 * DEFAULT, FM_EXPRESSION, IN_PAREN, NO_PARSE, and EXPRESSION_COMMENT.
 * The DEFAULT state is when you are parsing
 * text but are not inside a FreeMarker expression.
 * FM_EXPRESSION is the state you are in
 * when the parser wants a FreeMarker expression.
 * IN_PAREN is almost identical really. The difference
 * is that you are in this state when you are within
 * FreeMarker expression and also within (...).
 * This is a necessary subtlety because the
 * ">" and ">=" symbols can only be used
 * within parentheses because otherwise, it would
 * be ambiguous with the end of a directive.
 * So, for example, you enter the FM_EXPRESSION state
 * right after a ${ and leave it after the matching }.
 * Or, you enter the FM_EXPRESSION state right after
 * an "<if" and then, when you hit the matching "">
*/
* that ends the if directive,
* you go back to DEFAULT lexical state.
* If, within the FM_EXPRESSION state, you enter a
* parenthetical expression, you enter the IN_PAREN
* state.
* Note that whitespace is ignored in the
* FM_EXPRESSION and IN_PAREN states
* but is passed through to the parser as PCDATA in the DEFAULT state.
* NO_PARSE and EXPRESSIONCOMMENT are extremely simple
* lexical states. NO_PARSE is when you are in a comment
* block and EXPRESSIONCOMMENT is when you are in a comment
* that is within an FTL expression.
*/

TOKEN_MGR_DECLS :
{
  /**
   * The noparseTag is set when we enter
   * a block of text that the parser more or less ignores.
   * These are <noparse> and <comment>. This variable
   * tells us what the closing tag should be, and when
   * we hit that, we resume parsing. Note that with this
   * scheme, <comment> and <noparse> tags cannot nest
   * recursively, but it is not clear how important that is.
   */
   String noparseTag;

   /**
   * Keeps track of how deeply nested
   * we have the hash literals.
   * This is necessary since we need to be
   * able to distinguish the } used to close
   * a hash literal and the one used to
   * close a ${
   */
   private int hashLiteralNesting;
   private int parenthesisNesting;
   private int bracketNesting;
   private boolean inFTLHeader;
   boolean strictEscapeSyntax,
       onlyTextOutput,
       altDirectiveSyntax,
       autodetectTagSyntax,
       directiveSyntaxEstablished,
       inInvocation;
   String templateName;
// This method checks if we are in a strict mode where all
// FreeMarker directives must start with <#
private void strictSyntaxCheck(Token tok, int newLexState) {
if (onlyTextOutput) {
tok.kind = PRINTABLE_CHARS;
return;
}
char firstChar = tok.image.charAt(0);
if (autodetectTagSyntax && !directiveSyntaxEstablished) {
altDirectiveSyntax = (firstChar == '[');
}
if ((firstChar == '[' && !altDirectiveSyntax) || (firstChar == '<' && altDirectiveSyntax)) {
tok.kind = PRINTABLE_CHARS;
return;
}
if (!strictEscapeSyntax) {
SwitchTo(newLexState);
return;
}
if (!altDirectiveSyntax) {
if (!tok.image.startsWith("<#") && !tok.image.startsWith("</#")) {
tok.kind = PRINTABLE_CHARS;
return;
}
}
directiveSyntaxEstablished = true;
SwitchTo(newLexState);
}
private void unifiedCall(Token tok) {
char firstChar = tok.image.charAt(0);
if (autodetectTagSyntax && !directiveSyntaxEstablished) {
altDirectiveSyntax = (firstChar == '[');
}
if (altDirectiveSyntax && firstChar == '<') {
tok.kind = PRINTABLE_CHARS;
return;
}
if (!altDirectiveSyntax && firstChar == '[') {
tok.kind = PRINTABLE_CHARS;
return;
}
directiveSyntaxEstablished = true;
SwitchTo(NO_SPACE_EXPRESSION);
}

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private void unifiedCallEnd(Token tok) {
    char firstChar = tok.image.charAt(0);
    if (!altDirectiveSyntax && firstChar == '<') {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
    if (!altDirectiveSyntax && firstChar == ']') {
        tok.kind = PRINTABLE_CHARS;
        return;
    }
}

private void closeBracket(Token tok) {
    if (bracketNesting > 0) {
        --bracketNesting;
    } else {
        tok.kind = DIRECTIVE_END;
        if (inFTLHeader) {
            eatNewline();
            inFTLHeader = false;
        }
        SwitchTo(DEFAULT);
    }
}

private void eatNewline() {
    int charsRead = 0;
    try {
        while (true) {
            char c = input_stream.readChar();
            ++charsRead;
            if (!Character.isWhitespace(c)) {
                input_stream.backup(charsRead);
                return;
            } else if (c == '') {
                char next = input_stream.readChar();
                ++charsRead;
                if (next != '
') {
                    input_stream.backup(1);
                    return;
                }
            } else if (c == '
') {
                return;
            } else if (c == '\r') {
                char next = input_stream.readChar();
                ++charsRead;
                if (next != '\n') {
                    input_stream.backup(1);
                    return;
                }
            } else if (c == '\n') {
                return;
            }
        }
    } catch (IOException ioe) {
        input_stream.backup(charsRead);
    }
}
private void ftlHeader(Token matchedToken) {
    if (!directiveSyntaxEstablished) {
        altDirectiveSyntax = matchedToken.image.charAt(0) == '[';
        directiveSyntaxEstablished = true;
        autodetectTagSyntax = false;
    }
    String img = matchedToken.image;
    char firstChar = img.charAt(0);
    char lastChar = img.charAt(img.length() -1);
    if ((firstChar == '[' && !altDirectiveSyntax) || (firstChar == '<' && altDirectiveSyntax)) {
        matchedToken.kind = PRINTABLE_CHARS;
    }
    if (matchedToken.kind != PRINTABLE_CHARS) {
        if (lastChar != '>' && lastChar != ']') {
            SwitchTo(FM_EXPRESSION);
            inFTLHeader = true;
        } else {
            eatNewline();
        }
    }
}

TOKEN:
{
    <BLANK : [" ", 
    "t", "n", "\n"> |
    START_TAG : "<" | "<#" | "[#"> |
    END_TAG : "</" | "</#" | "[/#"> |
    CLOSE_TAG1 : (<BLANK>)* ("">" | "]")> |
    CLOSE_TAG2 : (<BLANK>)* ("/")? ("">" | ""|
    ATTEMPT : <START_TAG> "attempt" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}
    RECOVER : <START_TAG> "recover" <CLOSE_TAG1>> {strictSyntaxCheck(matchedToken, DEFAULT);}
    IF : <START_TAG> "if" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
    ELSE_IF : <START_TAG> "elseif" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
    LIST : <START_TAG> "list" <BLANK>> {strictSyntaxCheck(matchedToken, FM_EXPRESSION);}
}
matchedToken.kind = PRINTABLE_CHARS;
}
else if (strictEscapeSyntax) {
    String s = matchedToken.image;
    int index = s.indexOf("#");
    s = s.substring(index);
    String msg = "Unknown directive: "+ s
    + " on line: " + matchedToken.beginLine
    + ", column: " + matchedToken.beginColumn + 1
    + ", in template: " + templateName;
    throw new TokenMgrError(msg, TokenMgrError.LEXICAL_ERROR);
}
<"--" | "--"> {if (parenthesisNesting >0) SwitchTo(IN_PAREN); else if (inInvocation) SwitchTo(NAMED_PARAMETER_EXPRESSION); else SwitchTo(FM_EXPRESSION);}
}

<FM_EXPRESSION, IN_PAREN, NO_SPACE_EXPRESSION, NAMED_PARAMETER_EXPRESSION>

TOKEN:
{
<#ESCAPED_CHAR : "\\"

( ["n","t","r","f","b","g","\",","\",","\",","\",","\",","\",","\",","\",","\",","\",","\",""]
| ("x" ["0"-"9","A"-"F","a"-"f"])
)
>
|
<STRING_LITERAL :

(""

((~[""","]") | <ESCAPED_CHAR>)*
"
"
|
"]"

((~[""","]") | <ESCAPED_CHAR>)*
]

)

>
|
<RAW_STRING : "r" (("\"" (~["\"])* "\"") | (""" (~[""" ])* """"))>
|
<FALSE : "false">
|
<TRUE : "true">
|
<INTEGER : (["0"-"9"])+>
|
<DECIMAL : <INTEGER> "." <INTEGER>
|
<DOT : ".">
|
<DOT_DOT : ".">
|
<BUILT_IN : "?">
|
<EXISTS : "??">
|
<EQUALS : ".">
|
<DOUBLE_EQUALS : ".">
|
if (parenthesisNesting == 0) {
      if (inInvocation) SwitchTo(NAMED_PARAMETER_EXPRESSION);
      else SwitchTo(FM_EXPRESSION);
  }
}  
  if (hashLiteralNesting == 0)
      SwitchTo(DEFAULT);
  else
      --hashLiteralNesting;
}  
< IN : "in">

< AS : "as">

< USING : "using">

< ID: <LETTER> (<LETTER>|<DIGIT>)* >

< #LETTER:
  
  "\u0024",
  "\u0040"-"\u005a",
  "\u0061"-"\u007a",
  "\u0100"-"\u1fff",
  "\u3040"-"\u318f",
  "\u3300"-"\u337f",
  "\u3400"-"\u3d2d",
  "\u4e00"-"\u9fff",
  "\uf900"-"\ufaff"
]
>

< #DIGIT:
  
  "\u0030"-"\u0039",
  "\u0660"-"\u0669",
"u06f0"-"u06f9",
"u0966"-"u096f",
"u09c6"-"u09cf",
"u0d66"-"u0d6f",
"u0e66"-"u0e6f",
"u0e50"-"u0e59",
"u0e60"-"u0e69",
"u1040"-"u1049"
]
>
}

<FM_EXPRESSION, NO_SPACE_EXPRESSION, NAMED_PARAMETER_EXPRESSION> TOKEN :
{
  <DIRECTIVE_END : ">">
  {
    if (inFTLHeader) eatNewline();
    inFTLHeader = false;
    if (altDirectiveSyntax) {
      matchedToken.kind = NATURAL_GT;
    } else {
      SwitchTo(DEFAULT);
    }
  }
  |
  <EMPTY_DIRECTIVE_END : "/>" | "/"]"> {if (inFTLHeader) eatNewline(); inFTLHeader = false;
        SwitchTo(DEFAULT);}
}

<IN_PAREN> TOKEN :
{
  <NATURAL_GT : "">)
  |
  <NATURAL_GTE : ">=”>
}

<NO_SPACE_EXPRESSION> TOKEN :
{
  <TERMINATING_WHITESPACE : (\"u", \"r", \"t", " "])+ : FM_EXPRESSION
}

<NAMED_PARAMETER_EXPRESSION> TOKEN :
{

Expression Expression() {

    // Now the actual parsing code, starting
    // with the productions for FreeMarker's
    // expression syntax.

    /**
     * This is the same as OrExpression, since
     * the OR is the operator with the lowest
     * precedence.
     */

    Expression Expression() {
        //
    }
}
/**
 * Lowest level expression, a literal, a variable,
 * or a possibly more complex expression bounded
 * by parentheses.
 */
Expression PrimaryExpression() :
{
  Expression exp;
}
{
  \(\text{exp=}\text{NumberLiteral()}\)
  |\(\text{exp=}\text{HashLiteral()}\)
  |\(\text{exp=}\text{StringLiteral(true)}\)
  |\(\text{exp=}\text{BooleanLiteral()}\)
  |\(\text{exp=}\text{ListLiteral()}\)
  |\(\text{exp=}\text{Identifier()}\)
  |\(\text{exp=}\text{Parenthesis()}\)
  |\(\text{exp=}\text{BuiltinVariable()}\)
  }
(\text{LOOKAHEAD(<DOT>}
  |<OPEN_BRACKET>
  |<OPEN_PAREN>
  |<BUILT_IN>
  |<EXCLAM>
  |<TERMINATING_EXCLAM>
  |<EXISTS>>
  exp=AddSubExpression(exp)
)*
return exp;
}

Expression Parenthesis() :
{
Expression exp, result;
Token start, end;
}
{
start=<OPEN_PAREN>
exp=Expression()
end=<CLOSE_PAREN>
{
result = new ParentheticalExpression(exp);
result.setLocation(template, start, end);
return result;
}
}

/**
* A primary expression preceded by zero or
* more unary operators. (The only unary operator we
* currently have is the NOT.)
*/
Expression UnaryExpression() :
{
Expression exp, result;
boolean haveNot = false;
Token t = null, start=null;
}
{
(result=UnaryPlusMinusExpression()
| result=NotExpression()
| result=PrimaryExpression()
)
{
return result;
}
/*
(t=<EXCLAM>
{
haveNot = !haveNot;
if (start == null)
Expression NotExpression() :
{
    Token t;
    Expression exp, result=null;
    ArrayList nots = new ArrayList();
    }
    {
        (t=<EXCLAM> {nots.add(t);})+
    exp=PrimaryExpression()
    {
        for (int i=0; i<nots.size(); i++) {
            result = new NotExpression(exp);
            Token tok = (Token) nots.get(nots.size() - i - 1);
            result.setLocation(template, tok, exp);
            exp = result;
        }
        return result;
    }
    */
    }

Expression UnaryPlusMinusExpression() :
{
    Expression exp, result;
    boolean isMinus = false;
    Token t;
    }
    {
        (t=<PLUS> |
t=<MINUS> {isMinus = true;}
}
exp=PrimaryExpression()
{
    result = new UnaryPlusMinusExpression(exp, isMinus);
    result.setLocation(template, t, exp);
    return result;
}
}

Expression AdditiveExpression() :
{
    Expression lhs, rhs, result;
    boolean plus;
    
    lhs=MultiplicativeExpression() {result = lhs;}
    (LOOKAHEAD(<PLUS>|<MINUS>)
    (   
        <PLUS> {plus = true;}
        |<MINUS> {plus = false;}
    )
    )
    rhs=MultiplicativeExpression()
    {
        if (plus) {
            // plus is treated separately, since it is also
            // used for concatenation.
            result = new AddConcatExpression(lhs, rhs);
        }
        else {
            numberLiteralOnly(lhs);
            numberLiteralOnly(rhs);
            result = new ArithmeticExpression(lhs,
                                                rhs,
                                                ArithmeticExpression.SUBTRACTION);
        }
        result.setLocation(template, lhs, rhs);
        lhs = result;
    }*
    
    return result;
}
/**
 * A unary expression followed by zero or more
 * unary expressions with operators in between.
 */

Expression MultiplicativeExpression() :
{
  Expression lhs, rhs, result;
  int operation = ArithmeticExpression.MULTIPLICATION;
}
{
  lhs=UnaryExpression() {result = lhs;}
  (LOOKAHEAD(<TIMES>|<DIVIDE>|<PERCENT>)(
  (<TIMES> {operation = ArithmeticExpression.MULTIPLICATION;}
   | <DIVIDE> {operation = ArithmeticExpression.DIVISION;}
   | <PERCENT> {operation = ArithmeticExpression.MODULUS;})
  )
  rhs=UnaryExpression()
  {
    numberLiteralOnly(lhs);
    numberLiteralOnly(rhs);
    result = new ArithmeticExpression(lhs, rhs, operation);
    result.setLocation(template, lhs, rhs);
    lhs = result;
  }
  )
}

Expression EqualityExpression() :
{
  Expression lhs, rhs, result;
  Token t;
}
{
  lhs=RelationalExpression() {result = lhs;}
  [LOOKAHEAD(<NOT_EQUALS>|<EQUALS>|<DOUBLE_EQUALS>)(
  )
Expression RelationalExpression() : 
{
    Expression lhs, rhs, result;
    Token t;
}
{
    lhs=RangeExpression() {result = lhs;}
    [
    LOOKAHEAD(<NATURAL_GTE>|<ESCAPED_GTE>|<NATURAL_GT>|<ESCAPED_GT>|<LESS_THAN_EQUALS>|<LESS_THANEQUALS>|<LESS_THAN_EQUALS>|<LESS_THAN>)
    {
        t=<NATURAL_GTE>
        |
        t=<ESCAPED_GTE>
        |
        t=<NATURAL_GT>
        |
        t=<ESCAPED_GT>
        |
        t=<LESS_THAN_EQUALS>
        |
        t=<LESS_THANEQUALS>
        |
        t=<LESS_THAN>
    }
    rhs=RangeExpression() 
    {
        notHashLiteral(lhs, "scalar");
        notHashLiteral(rhs, "scalar");
    }
}
notListLiteral(lhs, "scalar");
notListLiteral(rhs, "scalar");
notStringLiteral(lhs, "number");
notStringLiteral(rhs, "number");
result = new ComparisonExpression(lhs, rhs, t.image);
result.setLocation(template, lhs, rhs);
}
]
{
return result;
}
}

Expression RangeExpression() :
{
Expression lhs, rhs=null, result;
}
{
lhs=AdditiveExpression() {result = lhs;}
|
LOOKAHEAD(<DOT_DOT>)
<DOT_DOT>
|
LOOKAHEAD(Expression())
rhs=AdditiveExpression()
|

numberLiteralOnly(lhs);
if (rhs != null) {
    numberLiteralOnly(rhs);
}
Range range = new Range(lhs, rhs);
if (rhs != null) {
    range.setLocation(template, lhs, rhs);
} else {
    range.setLocation(template, lhs, lhs);
}
result = range;
}
]
{
return result;
}
}
Expression AndExpression()  :
{
  Expression lhs, rhs, result;
}
{
  lhs=EqualityExpression() { result = lhs; }
  (LOOKAHEAD(<AND>)
   <AND>
  rhs=EqualityExpression()
  )
  booleanLiteralOnly(lhs);
  booleanLiteralOnly(rhs);
  result = new AndExpression(lhs, rhs);
  result.setLocation(template, lhs, rhs);
  lhs = result;
  )
  )
  return result;

}

Expression OrExpression()  :
{
  Expression lhs, rhs, result;
}
{
  lhs=AndExpression() { result = lhs; }
  (LOOKAHEAD(<OR>)
   <OR>
  rhs=AndExpression()
  )
  booleanLiteralOnly(lhs);
  booleanLiteralOnly(rhs);
  result = new OrExpression(lhs, rhs);
  result.setLocation(template, lhs, rhs);
  lhs = result;
  )
  )
  return result;

}

ListLiteral ListLiteral()  :
{
ArrayList values = new ArrayList();
Token begin, end;

begin=<OPEN_BRACKET>
values=PositionalArgs()
end=<CLOSE_BRACKET>
{
    ListLiteral result = new ListLiteral(values);
    result.setLocation(template, begin, end);
    return result;
}

Expression NumberLiteral() :
{
    Token op = null, t;
}
{
    ( t=<INTEGER> | t=<DECIMAL> )
}{
    String s = t.image;
    Expression result = new NumberLiteral(template.getArithmeticEngine().toNumber(s));
    Token startToken = (op != null) ? op : t;
    result.setLocation(template, startToken, t);
    return result;
}

Identifier Identifier() :
{
    Token t;
}
{
    t=<ID>
    {
        Identifier id = new Identifier(t.image);
        id.setLocation(template, t, t);
        return id;
    }
}

Expression IdentifierOrStringLiteral() :
{

Expression exp;
{
{
(exp=Identifier())
|
exp=StringLiteral(false)
}
{
return exp;
}
}

BuiltinVariable BuiltinVariable():
{
Token dot, name;
}
{
dot=<DOT>
name=<ID>
{
BuiltinVariable result = null;
try {
   result = new BuiltinVariable(name.image);
} catch (ParseException pe) {
   pe.lineNumber = dot.beginLine;
   pe.columnNumber = dot.beginColumn;
   throw pe;
}
result.setLocation(template, dot, name);
return result;
}
}

/**
 * Production that builds up an expression
 * using the dot or dynamic key name
 * or the args list if this is a method invocation.
 */
Expression AddSubExpression(Expression exp):
{
Expression result = null;
}
{
(result=DotVariable(exp)
|
result=DynamicKey(exp)
Expression DefaultTo(Expression exp) :
{ 
Expression rhs = null;
Token t;
} 
{
(t=<TERMINATING_EXCLAM> 
  
(t=<EXCLAM> 
    [ 
      LOOKAHEAD(Expression()) 
      rhs=Expression()
    ]
  )
)

DefaultToExpression result = new DefaultToExpression(exp, rhs);
if (rhs ==null) { 
  result.setLocation(template, exp, t);
} else {
  result.setLocation(template, exp, rhs);
} 
return result;
}

Expression Exists(Expression exp) :
{
Token t;
}
t=<EXISTS>
{
    ExistsExpression result = new ExistsExpression(exp);
    result.setLocation(template, exp, t);
    return result;
}

Expression BuiltIn(Expression exp) :
{
    Token t=null;
    
    <BUILT_IN>
    t=<ID>
    
    BuiltIn result = null;
    try {
        result = BuiltIn.newBuiltIn(exp, t.image, t, templateName);
    } catch (ParseException pe) {
        pe.lineNumber = t.beginLine;
        pe.columnNumber = t.beginColumn;
        throw pe;
    }
    result.setLocation(template, exp, t);
    return result;
}

/**
 * production for when a key is specified by <DOT> + keyname
 */
Expression DotVariable(Expression exp) :
{
    Token t;
    
    <DOT>
    (t=<ID> | t=<TIMES> | t=<DOUBLE_STAR>
    | (t=<LESS_THAN>
    | t=<LESS_THAN_EQUALS>
    | t=<ESCAPED_GT>
    | t=<ESCAPED_GTE>
    | t=<FALSE>
| t=<TRUE>  
| t=<IN>    
| t=<AS>    
| t=<USING> |

if (!Character.isLetter(t.image.charAt(0))) {
    String msg = getErrorStart(t) + "n" + t.image + " is not a valid identifier.";
    throw new ParseException(msg, t.beginLine, t.beginColumn);
}

notListLiteral(exp, "hash");
notStringLiteral(exp, "hash");
notBooleanLiteral(exp, "hash");
Dot dot = new Dot(exp, t.image);
dot.setLocation(template, exp, t);
return dot;

/**
 * production for when the key is specified
 * in brackets.
 */
Expression DynamicKey(Expression exp) {
    Expression arg;
    Token t;

    <OPEN_BRACKET>
    arg=Expression()
    t=<CLOSE_BRACKET>

    notBooleanLiteral(exp, "list or hash");
    notNumberLiteral(exp, "list or hash");
    DynamicKeyName dkn = new DynamicKeyName(exp, arg);
dkn.setLocation(template, exp, t);
    return dkn;
}

/**
 * production for an arglist part of a method invocation.
 */
MethodCall MethodArgs(Expression exp) :
{
    ArrayList args = new ArrayList();
    Token end;
}
{
    <OPEN_PAREN>
    args=PositionalArgs()
    end=<CLOSE_PAREN>
    {
        args.trimToSize();
        MethodCall result = new MethodCall(exp, args);
        result.setLocation(template, exp, end);
        return result;
    }
}

StringValue StringLiteral(boolean interpolate) :
{
    Token t;
    boolean raw = false;
}
{
    (t=<STRING_LITERAL>
    |
    t=<RAW_STRING> {raw = true;})
    {
        String s = t.image;
        // Get rid of the quotes.
        s = s.substring(1, s.length() -1);
        if (raw) {
            s=s.substring(1);
        } else try {
            s = StringUtil.FTLStringLiteralDec(s);
        } catch (ParseException pe) {
            pe.lineNumber = t.beginLine;
            pe.columnNumber = t.beginColumn;
            throw pe;
        }
        StringLiteral result = new StringLiteral(s);
        result.setLocation(template, t, t);
        if (interpolate && !raw) {
            if (t.image.indexOf("\$\{") >=0 || t.image.indexOf("\#${") >=0)
                result.checkInterpolation();
        }
    }
}
return result;
}

Expression BooleanLiteral() :
{
    Token t;
    Expression result;
}
{
    (t=<FALSE> {result = new BooleanLiteral(false);})
    | (t=<TRUE> {result = new BooleanLiteral(true);})
}
result.setLocation(template, t, t);
return result;

HashLiteral HashLiteral() :
{
    Token begin, end;
    Expression key, value;
    ArrayList keys = new ArrayList();
    ArrayList values = new ArrayList();
}
{
    begin=<OPEN_BRACE>
    [ key=Expression( )
    ( <COMMA>|<COLON> )
    value=Expression( )
    ]
    stringLiteralOnly(key);
    keys.add(key);
    values.add(value);
    ]
    ( <COMMA>
    key=Expression( )
    ( <COMMA>|<COLON> )
    value=Expression( )
    ]
    stringLiteralOnly(key);
    keys.add(key);
values.add(value);
}
]*
] end=<CLOSE_BRACE>
{
    HashLiteral result = new HashLiteral(keys, values);
    result setLocation(template, begin, end);
    return result;
}
}
/**
 * A production representing the ${...}
 * that outputs a variable.
 */
DollarVariable StringOutput() :
{
    Expression exp;
    Token begin, end;
}
{
    begin=<OUTPUT_ESCAPE>
    exp=Expression()
    {
        notHashLiteral(exp, "scalar");
        notListLiteral(exp, "scalar");
        notBooleanLiteral(exp, "scalar");
    }
    end=<CLOSE_BRACE>
    {
        DollarVariable result = new DollarVariable(exp, escapedExpression(exp));
        result setLocation(template, begin, end);
        return result;
    }
}

NumericalOutput NumericalOutput() :
{
    Expression exp;
    Token fmt = null, begin, end;
}
{
    begin=<NUMERICAL_ESCAPE>
    exp=Expression() {numberLiteralOnly(exp);}
    [ <SEMICOLON>
    fmt=<ID>

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NumericalOutput result;
if (fmt != null) {
    int minFrac = -1;  // -1 indicates that the value has not been set
    int maxFrac = -1;

    StringTokenizer st = new StringTokenizer(fmt.image, "mM", true);
    char type = '-';
    while (st.hasMoreTokens()) {
        String token = st.nextToken();
        try {
            if (type != '-') {
                switch (type) {
                    case 'm':
                        if (minFrac != -1) throw new ParseException("invalid formatting string", fmt.beginLine,
                            fmt.beginColumn);
                        minFrac = Integer.parseInt(token);
                        break;
                    case 'M':
                        if (maxFrac != -1) throw new ParseException("invalid formatting string", fmt.beginLine,
                            fmt.beginColumn);
                        maxFrac = Integer.parseInt(token);
                        break;
                    default:
                        throw new ParseException();
                }
                type = '-';
            } else if (token.equals("m")) {
                type = 'm';
            } else if (token.equals("M")) {
                type = 'M';
            } else {
                throw new ParseException();
            }
        } catch (ParseException e) {
            String msg = getErrorStart(fmt) + 
                "Invalid format specifier 
                + fmt.image;
            throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
        }
        catch (NumberFormatException e) {
            String msg = getErrorStart(fmt) + 
                "Invalid number in the format specifier 
                + fmt.image;
            throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
        }
    }
    catch (ParseException e) {
        String msg = getErrorStart(fmt) + 
            "Invalid format specifier 
            + fmt.image;
        throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
    }
    catch (NumberFormatException e) {
        String msg = getErrorStart(fmt) + 
            "Invalid number in the format specifier 
            + fmt.image;
        throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
    }
}
if (maxFrac == -1) {
    if (minFrac == -1) {
        String msg = getErrorStart(fmt)
            + "Invalid format specification, at least one of m and M must be specified!";
        throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
    }
    maxFrac = minFrac;
} else if (minFrac == -1) {
    minFrac = 0;
}
if (minFrac > maxFrac) {
    String msg = getErrorStart(fmt)
        + "Invalid format specification, min cannot be greater than max!";
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}
if (minFrac > 50 || maxFrac > 50) {// sanity check
    String msg = getErrorStart(fmt)
        + "Cannot specify more than 50 fraction digits";
    throw new ParseException(msg, fmt.beginLine, fmt.beginColumn);
}
result = new NumericalOutput(exp, minFrac, maxFrac);
} else {  // if format != null
    result = new NumericalOutput(exp);
}
result.setLocation(template, begin, end);
return result;

TemplateElement If() :
{
    Token start, end, t;
    Expression condition;
    TemplateElement block;
    IfBlock ifBlock;
    ConditionalBlock cblock;
}
{
    start=<IF>
    condition=Expression()
    <DIRECTIVE_END>
    block=OptionalBlock()
    {
        cblock = new ConditionalBlock(condition, block, true);
        cblock.setLocation(template, start, block);
ifBlock = new IfBlock(cblock);
}
(t=<ELSE_IF>
condition=Expression()
LooseDirectiveEnd()
block=OptionalBlock()
{  
cblock = new ConditionalBlock(condition, block, false);
cblock.setLocation(template, t, block);
ifBlock.addBlock(cblock);
}
)*
[
(t=<ELSE>
block=OptionalBlock()
{  
cblock = new ConditionalBlock(null, block, false);
cblock.setLocation(template, t, block);
ifBlock.addBlock(cblock);
}
]
end=<END_IF>
{  
ifBlock.setLocation(template, start, end);
return ifBlock;
}
}

AttemptBlock Attempt() : 
{
Token start, end;
TemplateElement block, recoveryBlock;
}
{
start=<ATTEMPT>
block=OptionalBlock()
recoveryBlock=Recover()
(end=<END_RECOVER>
|
edend=<END_ATTEMPT>)
{
AttemptBlock result = new AttemptBlock(block, recoveryBlock);
result.setLocation(template, start, end);
return result;
}
RecoveryBlock Recover() :
{
    Token start;
    TemplateElement block;
}
{
    start=<RECOVER>
    block=OptionalBlock()
{
        RecoveryBlock result = new RecoveryBlock(block);
        result.setLocation(template, start, block);
        return result;
    }
}

IteratorBlock List() :
{
    Expression exp;
    Token index, start, end;
    TemplateElement block;
}
{
    start=<LIST> {++loopNesting;}
    exp=Expression()
<AS>
    index=<ID>
<DIRECTIVE_END>
    block=OptionalBlock()
    end=<END_LIST>
    {
        --loopNesting;
        IteratorBlock result = new IteratorBlock(exp,
            index.image,
            block,
            false);
        result.setLocation(template, start, end);
        return result;
    }
}

IteratorBlock ForEach() :
{
    Expression exp;
    Token index, start, end;
    TemplateElement block;
}
{ 
start=<FOREACH> [++loopNesting:] 
index=<ID> 
<IN> 
exp=Expression() 
<DIRECTIVE_END> 
block=OptionalBlock() 
end=<END FOREACH> 
} 
--loopNesting; 
IteratorBlock result = new IteratorBlock(exp, 
index.image, 
block, 
true); 
result.setLocation(template, start, end); 
return result; 
} 
} 

VisitNode Visit() : 
{ 
Token start, end; 
Expression targetNode, namespaces=null; 
} 
{ 
start=<VISIT> 
targetNode=Expression() 
[ 
<USING> 
namespaces=Expression() 
] 
end=LooseDirectiveEnd() 
} 

RecurseNode Recurse() : 
{ 
Token start, end = null; 
Expression node=null, namespaces=null; 
} 
{ 
( 
start=<SIMPLE RECURSE> 
|
(start=<RECURSE>
  node=Expression()
)

<USING>
  namespaces=Expression()
)
end=LooseDirectiveEnd()

{
  if (end == null) end = start;
  RecurseNode result = new RecurseNode(node, namespaces);
  result.setLocation(template, start, end);
  return result;
}

FallbackInstruction FallBack() :
{
  Token tok;
}

tok=<FALLBACK>
{
  if (!inMacro) {
    throw new ParseException(getErrorStart(tok)
      + "Cannot fall back 
      + "outside a macro."
      , tok.beginLine, tok.beginColumn);
  }
  FallbackInstruction result = new FallbackInstruction();
  result.setLocation(template, tok, tok);
  return result;
}

/**
 * Production used to break out of a loop or a switch block.
 */
BreakInstruction Break() :
{
  Token start;
}

/*
start=<BREAK>
|
  if (loopNesting < 1 && switchNesting < 1)
  |
    String msg = getErrorStart(start) + "\n"
    + start.image
    + " occurred outside a loop or a switch block."
    throw new ParseException(msg, start.beginLine, start.beginColumn);
  }
BreakInstruction result = new BreakInstruction();
result.setLocation(template, start, start);
return result;
}

/?
* Production used to jump out of a macro.
* The stop instruction terminates the rendering of the template.
*/
ReturnInstruction Return() :
{
  Token start, end=null;
  Expression exp = null;
  }
( ( start=<SIMPLE_RETURN> {end = start;} )
| ( start=<RETURN> exp=Expression() end=LooseDirectiveEnd() ) )
{
  if (inMacro) {
    if (exp != null) {
      String msg = getErrorStart(start)
      + "A macro cannot return a value";
      throw new ParseException(msg, start.beginLine, start.beginColumn);
    }
  }
} else if (inFunction) {
  if (exp == null) {
    String msg = getErrorStart(start)
    + "A function must return a value";
    throw new ParseException(msg, start.beginLine, start.beginColumn);
  }
}
else { if (exp == null) {
  String msg = getErrorStart(start)
  + "A function must return a value";
  throw new ParseException(msg, start.beginLine, start.beginColumn);
}
}
A return instruction can only occur inside a macro of function;
throw new ParseException(msg, start.beginLine, start.beginColumn);

ReturnInstruction result = new ReturnInstruction(exp);
result.setLocation(template, start, end);
return result;

StopInstruction Stop() :
{
Token start = null;
Expression exp = null;
}
{
( start=<HALT>
|
start=<STOP> exp=Expression() LooseDirectiveEnd()
)

StopInstruction result = new StopInstruction(exp);
result.setLocation(template, start, start);
return result;
}

TemplateElement Nested() :
{
Token t, end;
ArrayList bodyParameters;
BodyInstruction result = null;
}
{
( t=<SIMPLE_NESTED>
|
result = new BodyInstruction(null);
result.setLocation(template, t, t);
|
)
|
( t=<NESTED>
bodyParameters=PositionalArgs()
end=LooseDirectiveEnd()
```java
result = new BodyInstruction(bodyParameters);
result.setLocation(template, t, end);
}
}
if (!inMacro) {
    throw new ParseException(getErrorStart(t)

    + "Cannot use a 
    + " instruction outside a macro.",
    t.beginLine, t.beginColumn);
} return result;
}
}

TemplateElement Flush() :
{
    Token t;
}
()
{ t=<FLUSH>
{
    FlushInstruction result = new FlushInstruction();
    result.setLocation(template, t, t);
    return result;
}
}

TemplateElement Trim() :
{
    Token t;
    TrimInstruction result=null;
}
()
{ ( t=<TRIM> { result = new TrimInstruction(true, true); }
| t=<LTRIM> { result = new TrimInstruction(true, false); }
| t=<RTRIM> { result = new TrimInstruction(false, true); }
| t=<NOTRIM> { result = new TrimInstruction(false, false); }
) }
{ result.setLocation(template, t, t); ```
TemplateElement Assign() :
{
    Token start, end;
    int scope;
    Token id=null;
    Expression nameExp, exp, nsExp=null;
    String varName;
    ArrayList assignments = new ArrayList();
    Assignment ass;
    TemplateElement block;
}
{
    (start=<ASSIGN> {scope = Assignment.NAMESPACE;})
    | start=<GLOBALASSIGN>{scope = Assignment.GLOBAL;}
    | start=<LOCALASSIGN> {scope = Assignment.LOCAL;}
    {
        scope = Assignment.LOCAL;
        if (!inMacro && !inFunction) {
            String msg = getErrorStart(start)
            + "Local variable assigned outside a macro."
            throw new ParseException(msg, start.beginLine, start.beginColumn);
        }
    }
    nameExp=IdentifierOrStringLiteral()
    {
        varName = (nameExp instanceof StringLiteral) ? ((StringLiteral) nameExp).getAsString() : nameExp.toString();
    }
    ( <EQUALS>
    exp=Expression()
    {
        ass = new Assignment(varName, exp, scope);
        ass.setLocation(template, nameExp, exp);
        assignments.add(ass);
    }
    ( LOOKAHEAD([<COMMA>] [<ID>|<STRING_LITERAL>]<EQUALS>)
    [<COMMA>] 
    nameExp=IdentifierOrStringLiteral()
varName = (nameExp instanceof StringLiteral) ? ((StringLiteral) nameExp).getAsString() : nameExp.toString();

\(<\text{EQUALS}\>\n
exp=Expression()
{
    ass = new Assignment(varName, exp, scope);
    ass.setLocation(template, nameExp, exp);
    assignments.add(ass);
}
)*

[
id=<IN>
    nsExp=Expression() {if (scope != Assignment.NAMESPACE) throw new ParseException(getErrorStart(id) + "Cannot assign to namespace here.", id.beginLine, id.beginColumn);}
}

end=LooseDirectiveEnd()
{
    AssignmentInstruction ai = new AssignmentInstruction(scope);
    for (int i = 0; i < assignments.size(); i++) {
        ai.addAssignment((Assignment) assignments.get(i));
    }
    ai.setNamespaceExp(nsExp);
    ai.setLocation(template, start, end);
    return ai;
}
|
|
[ id=<IN>
    nsExp=Expression() {if (scope != Assignment.NAMESPACE) throw new ParseException(getErrorStart(id) + "Cannot assign to namespace here.", id.beginLine, id.beginColumn);}
]

\(<\text{DIRECTIVE\_END}\>\n
block=OptionalBlock()
(
    end=<END\_LOCAL> {if (scope != Assignment.LOCAL) throw new ParseException(getErrorStart(end) + "Mismatched assignment tags.", end.beginLine, end.beginColumn);}
    |
    end=<END\_ASSIGN> {if (scope != Assignment.NAMESPACE) throw new ParseException(getErrorStart(end) + "Mismatched assignment tags.", end.beginLine, end.beginColumn);}
    |
    end=<END\_GLOBAL> {if (scope != Assignment.GLOBAL) throw new ParseException(getErrorStart(end) + "Mismatched assignment tags.", end.beginLine, end.beginColumn);}
)}
BlockAssignment ba = new BlockAssignment(block, varName, scope, nsExp);
  ba.setLocation(template, start, end);
  return ba;
}
)}
}

Include Include() :
{
  Expression nameExp;
  Token att, start, end;
  Expression exp, parseExp = null, encodingExp = null;
}
{
  start=<_INCLUDE>
  nameExp=Expression()
  [<SEMICOLON>]
  ( att=<ID>
    <EQUALS>
    exp=Expression()
  )
  String attString = att.image;
  if (attString.equalsIgnoreCase("parse")) {
    parseExp = exp;
  }
  else if (attString.equalsIgnoreCase("encoding")) {
    encodingExp = exp;
  }
  else {
    String msg = getErrorStart(att)
      + "unexpected parse= or encoding= to be specified."
    throw new ParseException(msg, att.beginLine, att.beginColumn);
  }
  }*
  end=LooseDirectiveEnd()
  {
    Include result = new Include(template, nameExp, encodingExp, parseExp);
    result.setLocation(template, start, end);
    return result;
  }
}

LibraryLoad Import() :
{
  Token start, end, ns;
  Expression nameExp;
Macro Macro() :
{
    Token arg, start, end;
    Expression nameExp;
    String name;
    ArrayList argNames = new ArrayList();
    HashMap args = new HashMap();
    ArrayList defNames = new ArrayList();
    Expression defValue=null;
    TemplateElement block;
    boolean isFunction = false, hasDefaults=false;
    boolean isCatchAll = false;
    String catchAll = null;
}
{
    (start=<MACRO>
    | start=<FUNCTION> {isFunction = true;})
    {
        if (inMacro || inFunction) {
            throw new ParseException(getErrorStart(start) + "\nMacros cannot be nested.", start.beginLine, start.endLine);
        }
        if (isFunction) inFunction = true; else inMacro = true;
    }
    nameExp=IdentifierOrStringLiteral()
    {
        name = (nameExp instanceof StringLiteral) ? ((StringLiteral) nameExp).getAsString() : nameExp.toString();
    }
    [<OPEN_PAREN>]

arg=<ID> {defValue = null;}
[<ELLIPSIS> { isCatchAll = true; }]
[<EQUALS>
defValue=Expression()
{
defNames.add(arg.image);
hasDefaults = true;
}
[<COMMA>]
[<CLOSE_PAREN>]

if (catchAll != null) {
    throw new ParseException(getErrorStart(arg)
        + "There may only be one \"catch-all\" parameter in a macro declaration, ",
        + "and it must be the last parameter.", arg.beginLine, arg.endLine);
}
if (isCatchAll) {
    if (defValue != null) {
        throw new ParseException(getErrorStart(arg)
            + "\nA \"catch-all\" macro parameter may not have a default value.",
            arg.beginLine, arg.endLine);
    }
    catchAll = arg.image;
} else {
    argNames.add(arg.image);
    if (hasDefaults && defValue == null) {
        throw new ParseException(getErrorStart(arg)
            + "In a macro declaration, parameters without a default value 
            + "must all occur before the parameters with default values.",
            arg.beginLine, arg.endLine);
    }
    args.put(arg.image, defValue);
}

)*
[<CLOSE_PAREN>]

block=OptionalBlock()
{
    end=<END_MACRO> { if(isFunction) throw new ParseException(getErrorStart(start) + "Unexpected function 
    end tag here.", start.beginLine, start.endLine); }
    |
    end=<END_FUNCTION> { if(!isFunction) throw new ParseException(getErrorStart(start) + "Unexpected 
    macro end tag here.", start.beginLine, start.endLine); }
}

inMacro = inFunction = false;
Macro result = new Macro(name, argNames, args, block);
result.setCatchAll(catchAll);
result.isFunction = isFunction;
result.setLocation(template, start, end);
template.addMacro(result);
return result;
}

CompressedBlock Compress() :
{
    TemplateElement block;
    Token start, end;
    
    start=<COMPRESS>
    block=OptionalBlock()
    end=<END_COMPRESS>
    
    CompressedBlock cb = new CompressedBlock(block);
    cb.setLocation(template, start, end);
    return cb;
}

TemplateElement UnifiedMacroTransform() :
{
    Token start=null, end, t;
    HashMap namedArgs = null;
    ArrayList positionalArgs = null, bodyParameters = null;
    String directiveName = null;
    TemplateElement nestedBlock = null;
    Expression exp;
}

start=<UNIFIED_CALL>
exp=Expression()
{
    if (exp instanceof Identifier || (exp instanceof Dot && ((Dot) exp).onlyHasIdentifiers())) {
        directiveName = exp.getCanonicalForm();
    }
}

[<TERMINATING_WHITESPACE>] 
( 
    LOOKAHEAD(<ID><EQUALS>)
    namedArgs = NamedArgs() 
}
positionalArgs=PositionalArgs()
)
[<SEMICOLON>{bodyParameters = new ArrayList();}
[<TERMINATING_WHITESPACE>]t=<ID> {bodyParameters.add(t.image);}
(<COMMA>
[<TERMINATING_WHITESPACE>]t = <ID>{bodyParameters.add(t.image);}
)*
]
]
(end=<EMPTY_DIRECTIVE_END>
|
(<DIRECTIVE_END>
nestedBlock=OptionalBlock()
end=<UNIFIED_CALL_END>
{
String s = end.image.substring(3);
s = s.substring(0, s.length() -1).trim();
if (s.length() >0 & & !s.equals(directiveName)) {
    String msg = getErrorStart(end);
    if (directiveName == null) {
        throw new ParseException(msg + "\nExpecting </@>", end.beginLine, end.beginColumn);
    }
    else {
        throw new ParseException(msg + "\nExpecting </@> or </" + directiveName + ">", end.beginLine, end.beginColumn);
    }
}
}
)
)
}

TemplateElement result = (positionalArgs != null) ? new UnifiedCall(exp, positionalArgs, nestedBlock, bodyParameters) : new UnifiedCall(exp, namedArgs, nestedBlock, bodyParameters);
result.setLocation(template, start, end);
return result;
}

TemplateElement Call() :
{
Token start, end, id;
HashMap namedArgs = null;
ArrayList positionalArgs = null;
String macroName = null;

start = <CALL>
id = <ID> {macroName = id.image;}

LOOKAHEAD(<ID><EQUALS>)
namedArgs = NamedArgs()
|
|
LOOKAHEAD(<OPEN_PAREN>)
<OPEN_PAREN>
|
|
positionalArgs = PositionalArgs()
|<CLOSE_PAREN>
|
|
end = LooseDirectiveEnd()

UnifiedCall result = null;
if (positionalArgs != null) {
    result = new UnifiedCall(new Identifier(macroName), positionalArgs, null, null);
} else {
    result = new UnifiedCall(new Identifier(macroName), namedArgs, null, null);
}
result.legacySyntax = true;
result.setLocation(template, start, end);
return result;

HashMap NamedArgs() :
|
HashMap result = new HashMap();
Token t;
Expression exp;
|
|
|t = <ID>
<EQUALS>
|
|
token_source.SwitchTo(token_source.NAMED_PARAMETER_EXPRESSION);
token_source.inInvocation = true;
|
exp=Expression()
{
    result.put(t.image, exp);
}
)+
{
    token_source.inInvocation = false;
    return result;
}
}

ArrayList PositionalArgs() :
{
    ArrayList result = new ArrayList();
    Expression arg;
}
{
    arg=Expression() {result.add(arg);}
    ( [<COMMA>] arg=Expression() {result.add(arg);} )*
}
{
    return result;
}
}

Comment Comment() :
{
    Token start, end;
    StringBuffer buf = new StringBuffer();
}
{
    ( start=<COMMENT>
    | start=<TERSE_COMMENT>
    )
    end=UnparsedContent(buf)
    {
        Comment result = new Comment(buf.toString());
        result.setLocation(template, start, end);
        return result;
    }
}
}
TextBlock NoParse() :
{
    Token start, end;
    StringBuffer buf = new StringBuffer();
}
{
    start=<NOPARSE>
    end=UnparsedContent(buf)
    {
        TextBlock result = new TextBlock(buf.toString(), true);
        result.setLocation(template, start, end);
        return result;
    }
}

TransformBlock Transform() :
{
    Token start, end, argName;
    Expression exp, argExp;
    TemplateElement content = null;
    HashMap args = null;
}
{
    start=<TRANSFORM>
    exp=Expression()
    [<SEMICOLON>]
    {
        argName=<ID>
        <EQUALS>
        argExp = Expression()
        {
            if (args == null) args = new HashMap();
            args.put(argName.image, argExp);
        }
    }*
    (end=<EMPTY_DIRECTIVE_END>
    | (<DIRECTIVE_END>content=OptionalBlock()end=<END_TRANSFORM>)
    )
    {
        TransformBlock result = new TransformBlock(exp, args, content);
        result.setLocation(template, start, end);
        return result;
    }
}
SwitchBlock Switch() {
    SwitchBlock switchBlock;
    Case caseIns;
    Expression switchExp;
    Token start, end;
    boolean defaultFound = false;
}

start=<SWITCH>
switchExp=Expression()
<DIRECTIVE_END>
{
    ++switchNesting;
    switchBlock = new SwitchBlock(switchExp);
}

(LOOKAHEAD(2)
    caseIns=Case()
    {
        if (caseIns.isDefault) {
            if (defaultFound) {
                String msg = getErrorStart(start) + "You can only have one default case in a switch statement";
                throw new ParseException(msg, start.beginLine, start.beginColumn);
            }
            defaultFound = true;
        }  
        switchBlock.addCase(caseIns);
    }
    defaultFound = true;

    switchBlock.addCase(caseIns);
}

*D[
    <WHITESPACE>]
end=<END SWITCH>
{
    --switchNesting;
    switchBlock.setLocation(template, start, end);
    return switchBlock;
}

Case Case() {
    Expression exp = null;
    TemplateElement block;
    boolean isDefault = false;
    Token start;
}
{<WHITESPACE>}
<CASE>exp=Expression()<DIRECTIVE_END>
start=<DEFAULT>{isDefault = true;}
block=OptionalBlock()
Case result = new Case(exp, block, isDefault);
result.setLocation(template, start, block);
return result;

EscapeBlock Escape() :
{
Token variable, start, end;
Expression escapeExpr;
TemplateElement content;
}

start=<ESCAPE>variable=<ID><AS>
escapeExpr=Expression()<DIRECTIVE_END>

EscapeBlock result = new EscapeBlock(variable.image, escapeExpr, escapedExpression(escapeExpr));
escapes.addFirst(result);
content=OptionalBlock()
result.setContent(content);
escapes.removeFirst();
end=<END_ESCAPE>
result.setLocation(template, start, end);
return result;

NoEscapeBlock NoEscape() :
{
Token start, end;
TemplateElement content;
}
{  
  start=<NOESCAPE>  
  {  
    if(escapes.isEmpty()) {  
      String msg = getErrorStart(start)  
      + "noescape with no matching escape encountered.";
      throw new ParseException(msg, start.beginLine, start.beginColumn);  
    }  
    Object escape = escapes.removeFirst();  
  }  
  content=OptionalBlock()  
}  
end=<END_NOESCAPE>  
{  
  escapes.addFirst(escape);  
  NoEscapeBlock result = new NoEscapeBlock(content);  
  result.setLocation(template, start, end);  
  return result;  
}  
}  

/**  
 * Production to terminate potentially empty elements. Either a ">" or "/>"  
 */  
Token LooseDirectiveEnd() :  
{  
  Token t;  
}  
{  
  (  
    t=<DIRECTIVE_END>  
    |  
    t=<EMPTY_DIRECTIVE_END>  
  )  
  {  
    return t;  
  }  
}  

PropertySetting Setting() :  
{  
  Token start, end, key;  
  Expression value;  
}  
{  
  start=<SETTING>  
  key=<ID>  
  <EQUALS>
value=Expression()
end=LooseDirectiveEnd()
{
    PropertySetting result = new PropertySetting(key.image, value);
    result.setLocation(template, start, end);
    return result;
}

/**
 * A production for FreeMarker directives.
 */
TemplateElement FreemarkerDirective() :
{
    TemplateElement tp;
}
{
(  
    tp=If()
    |  
    tp=List()
    |  
    tp=ForEach()
    |  
    tp=Assign()
    |  
    tp=Include()
    |  
    tp=Import()
    |  
    tp=Macro()
    |  
    tp=Compress()
    |  
    tp=UnifiedMacroTransform()
    |  
    tp=Call()
    |  
    tp=Comment()
    |  
    tp=NoParse()
    |  
    tp=Transform()
    |  
    tp=Switch()
    |  
    tp=Setting()
    |
** Production for a block of raw text
* i.e. text that contains no
* FreeMarker directives.
*/

TextBlock PCData()
{
    StringBuffer buf = new StringBuffer();
    Token t=null, start=null, prevToken = null;
    {
        (LOOKAHEAD(<WHITESPACE>|<PRINTABLE_CHARS>|<FALSE_ALERT>)
        {
            prevToken = t;
            t=<WHITESPACE>
        } t=<PRINTABLE_CHARS>
| t＝FALSE_ALERT >
|}
| buf.append(t.image);
| if (start == null) start = t;
| {if (prevToken != null) prevToken.next = null;}
| }
| )+
| {
| if (stripText && contentNesting == 1)
| return TextBlock.EMPTY_BLOCK;
| }
| TextBlock result = new TextBlock(buf.toString(), false);
| result.setLocation(template, start, t);
| return result;
| }
| */

/**
 * Production for dealing with unparsed content,
 * i.e. what is inside a comment or noparse tag.
 * It returns the ending token. The content
 * of the tag is put in buf.
 */
Token UnparsedContent(StringBuffer buf) :
{
  Token t;
  }
  {
    ((t=<KEEP_GOING> | t=<MAYBE_END> | t=<TERSE_COMMENT_END> |
      t=<LONE_LESS_THAN_OR_DASH>)
    {
      buf.append(t.image);
    })+
    {
      buf.setLength(buf.length() - t.image.length());
      return t;
    }
  }
  }
TemplateElement Content() :
{
  MixedContent nodes = new MixedContent();
  TemplateElement elem, begin=null;
  contentNesting++;
}
Lookahead(1) // Just tells javacc that we know what we're doing.

(elem=PCData() | elem=StringOutput() | elem=NumericalOutput() | elem=FreemarkerDirective() )
{
  if (begin == null) {
    begin = elem;
  }
  nodes.addElement(elem);
}
)+
{
  contentNesting--;  
  nodes.setLocation(template, begin, elem);
  return nodes;
}
}

/** *
 * A production freemarker text that may contain
 * ${...} and #{...} but no directives.
 */

TemplateElement FreeMarkerText() :
{
  MixedContent nodes = new MixedContent();
  TemplateElement elem, begin = null;
}
{
  (elem=PCData() | elem=StringOutput() | elem=NumericalOutput() )
{
  if (begin == null) {
    begin = elem;

nodes.addElement(elem);

)+

nodes.setLocation(template, begin, elem);
return nodes;
}

/**
 * A production for a block of optional content.
 * Returns an empty Text block if there is no
 * content.
 */

TemplateElement OptionalBlock()
{
TemplateElement tp = TextBlock.EMPTY_BLOCK;
{

LOOKAHEAD(1) // has no effect but to get rid of a spurious warning.
   tp=Content()
]

return tp;
}


void HeaderElement()
{
Token key;
Expression exp = null;
}
{

[<WHITESPACE>]

<TRIVIAL_FTL_HEADER>
|

<FTL_HEADER>
(
   key=<ID>
   <EQUALS>
   exp=Expression()
   |
   String ks = key.image;
TemplateModel value = null;
try {
    value = exp.getAsTemplateModel(null);
} catch (Exception e) {
    throw new ParseException("Could not evaluate expression: 
        + exp.getCanonicalForm() + 
        + exp.getStartLocation() 
        + 
        + "\nUnderlying cause: 
        + e.getMessage(), exp);
}

String vs = null;
if (value instanceof TemplateScalarModel) {
    try {
        vs = ((TemplateScalarModel) exp).getAsString();
    } catch (TemplateModelException tme) {} 
}

if (template != null) {
    if (ks.equalsIgnoreCase("encoding")) {
        if (vs == null) {
            throw new ParseException("expecting encoding string here: 
                + exp.getStartLocation(), exp);
        }
        String encoding = template.getEncoding();
        if (encoding != null && !encoding.equals(vs)) {
            throw new Template.WrongEncodingException(vs);
        }
    } else if (ks.equalsIgnoreCase("STRIP_WHITESPACE")) {
        this.stripWhitespace = getBoolean(exp);
    } else if (ks.equalsIgnoreCase("STRIP_TEXT")) {
        this.stripText = getBoolean(exp);
    } else if (ks.equalsIgnoreCase("STRICT_SYNTAX")) {
        this.token_source.strictEscapeSyntax = getBoolean(exp);
    } else if (ks.equalsIgnoreCase("ns_prefixes")) {
        if (!(value instanceof TemplateHashModelEx)) {
            throw new ParseException("Expecting a hash of prefixes to namespace URI's here. " +
                exp.getStartLocation(), exp);
        }
        TemplateHashModelEx prefixMap = (TemplateHashModelEx) value;
        try {
            TemplateCollectionModel keys = prefixMap.keys();
            for (TemplateModelIterator it = keys.iterator(); it.hasNext();) {
                String prefix = ((TemplateScalarModel) it.next()).getAsString();
                TemplateModel valueModel = prefixMap.get(prefix);
                if (!(valueModel instanceof TemplateScalarModel)) {
                    throw new ParseException("Wrong type for prefix "
                        + prefix + " in prefix map. " +
                        exp.getStartLocation(), exp);
                }
                this.prefixMap.add(prefix, (TemplateScalarModel) valueModel);
            }
        } catch (TemplateModelException tme) {
            throw new ParseException("Error adding prefix "
                + prefix + " to prefix map. " +
                tme.getMessage(), exp);
        }
    }
}

TemplateHashModelEx prefixMap = (TemplateHashModelEx) value;
try {
    TemplateCollectionModel keys = prefixMap.keys();
    for (TemplateModelIterator it = keys.iterator(); it.hasNext();)
        String prefix = ((TemplateScalarModel) it.next()).getAsString();
    TemplateModel valueModel = prefixMap.get(prefix);
    if (!valueModel instanceof TemplateScalarModel)
        throw new ParseException("Wrong type for prefix "
            + prefix + " in prefix map. " +
            exp.getStartLocation(), exp);

    // Process each prefix and value model

} catch (TemplateModelException tme) {
    throw new ParseException("Error adding prefix "
        + prefix + " to prefix map. " +
        tme.getMessage(), exp);
}
throw new ParseException("Non-string value in prefix to namespace hash. " + exp.getStartLocation(), exp);
}
String nsURI = ((TemplateScalarModel) valueModel).getAsString();
try {
    template.addPrefixNSMapping(prefix, nsURI);
} catch (IllegalArgumentException iae) {
    throw new ParseException(iae.getMessage() + " " + exp.getStartLocation(), exp);
}
}
} catch (TemplateModelException tme) {
}
else if (ks.equalsIgnoreCase("attributes")) {
    if (!(value instanceof TemplateHashModelEx)) {
        throw new ParseException("Expecting a hash of attribute names to values here. " + exp.getStartLocation(), exp);
    }
    TemplateHashModelEx attributeMap = (TemplateHashModelEx) value;
    try {
        TemplateCollectionModel keys = attributeMap.keys();
        for (TemplateModelIterator it = keys.iterator(); it.hasNext();) {
            String attName = ((TemplateScalarModel) it.next()).getAsString();
            Object attValue = DeepUnwrap.unwrap(attributeMap.get(attName));
            template.setCustomAttribute(attName, attValue);
        }
    } catch (TemplateModelException tme) {
    }
}
else {
    throw new ParseException("Unknown FTL header parameter: " + key.image, key.beginLine, key.beginColumn);
}
}
LooseDirectiveEnd()
)
)

Map ParamList() :
{
    Identifier id;
    Expression exp;
    Map result = new HashMap();
}
id=Identifier()
<EQUALS>
exp=Expression() {result.put(id.toString(), exp);}
[<COMMA>]
}+
{
    return result;
}

/**
 * Root production to be used when parsing
 * an entire file.
 */
TemplateElement Root() :
{
    TemplateElement doc;
}
{
[
    LOOKAHEAD([<WHITESPACE>]|<TRIVIAL_FTL_HEADER>|<FTL_HEADER>)
    HeaderElement()
]}
    doc=OptionalBlock()
<EOF>
{
    doc.setParentRecursively(null);
    return doc.postParseCleanup(stripWhitespace);
}
}

Found in path(s):
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/FMParser.jj
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/NumericalBuiltins.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/Include.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-
  jar/freemarker/log/Null LoggerFactory.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-
  jar/freemarker/ext/beans/StaticModels.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/Interpret.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-
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jar/freemarker/core/UnifiedCall.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/InvalidReferenceException.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/SimpleSequence.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/GeneralPurposeNothing.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/xml/JaxenNamespaces.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/util/ModelCache.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/EvaluationUtil.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/StringLiteral.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/NumericalOutput.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/Comment.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/beans/BeansWrapper.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/ant/JythonAntTask.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/jdom/NodeListModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/utility/DeepUnwrap.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/beans/EnumModels.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/ConditionalBlock.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/jython/JythonNumberModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/servlet/HttpRequestHashModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/RecursiveNode.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/TemplateTransformModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/SimpleObjectWrapper.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/Range.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/Identifier.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/debug/implement/RmiDebuggerService.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/log/JDK14LoggerFactory.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/FlushInstruction.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/template/utility/DOMNodeModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/ext/xml/NodeOperator.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/ext/xml/DomNavigator.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/template/ObjectWrapper.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/template/SimpleScalar.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/template/TemplateExceptionHandler.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/template/TemplateMethodModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/template/TemplateModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/template/WrappingTemplateModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/core/Expression.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/core/TextBlock.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/core/DynamicKeyName.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/core/NonBooleanException.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/ext/ant/UnlinkedJythonOperations.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/ext/api/UnlinkedJythonOperations.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/ext/beans/OverloadedMethod.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/ext/beans/ClassBasedModelFactory.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/ext/xml/Navigator.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/ext/jython/JythonSequenceModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/ext/beans/IteratorModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/template/TemplateMethodModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/template/TemplateMap.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/template/TemplateModel.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/template/TemplateModel.java
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jar/freemarker/debug/DebugModel.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/ext/jython/JythonHashModel.java
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* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/core/BodyInstruction.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/cache/WebappTemplateLoader.java
* /opt/cola/permits/1135863672_1613618160.12/0/freemarker-2-3-16-sources-1-jar/freemarker/template/TemplateHashModelEx.java
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* /opt/cola/permits/1095753878_1601493814.71/0/jline-remote-telnet-3-15-0-sources-jar/org/jline/builtins/telnet/ConnectionManager.java
* /opt/cola/permits/1095753878_1601493814.71/0/jline-remote-telnet-3-15-0-sources-jar/org/jline/builtins/telnet/ConnectionData.java
* /opt/cola/permits/1095753878_1601493814.71/0/jline-remote-telnet-3-15-0-sources-jar/org/jline/builtins/telnet/TelnetIO.java
1.2142 vertx-hazelcast 3.9.4

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  jar/au/com/bytecode/opencsv/CSVReader.java

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  jar/au/com/bytecode/opencsv/package.html

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* /opt/cola/permits/1136652096_1613848878.02/0/opencsv-2-1-sources-1-jar/au/com/bytecode/opencsv/bean/ColumnPositionMappingStrategy.java
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* /opt/cola/permits/1136652096_1613848878.02/0/opencsv-2-1-sources-1-jar/au/com/bytecode/opencsv/bean/CsvToBean.java
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package org.apache.cxf.rs.security.oauth.data;

/**
 * Base permission description which is visible to
 * authorization handlers
 * @see OAuthAuthorizationData
 */
public class Permission {
    private String permission;
    private String description;
    private boolean isDefault;

    public Permission() {
    }

    public Permission(String permission, String description) {
        this.description = description;
        this.permission = permission;
    }

    public String getDescription() {
        return description;
    }

    public void setDescription(String description) {
        this.description = description;
    }

    public String getPermission() {
        return permission;
    }

    public void setPermission(String permission) {
        this.permission = permission;
    }

    /**
     * Indicates that this permission has been allocated by default.
     * Authorization View handlers may use this property in order to restrict
     * the list of scopes which may be refused to non-default scopes only
     * @param isDefault
     */
    public void setDefault(boolean value) {
    }
}
this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}
}
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 */

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {
    int copyFrom(InputStream in) throws IOException;
}

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import java.io.Serializable;

/**
 * Base permission description
 * @see OAuthAuthorizationData
 */

public class Permission implements Serializable {
    private static final long serialVersionUID = 8988574955042726083L;
    private String permission;
    private String description;
    private boolean isDefault;
}
public Permission() {
}

public Permission(String permission, String description) {
    this.description = description;
    this.permission = permission;
}

/**
 * Gets the permission description
 * @return the description
 */
public String getDescription() {
    return description;
}

/**
 * Sets the permission description
 * @param description
 */
public void setDescription(String description) {
    this.description = description;
}

/**
 * Get the permission value such as "read_calendar"
 * @return the value
 */
public String getPermission() {
    return permission;
}

/**
 * Sets the permission value such as "read_calendar"
 * @param permission the permission value
 */
public void setPermission(String permission) {
    this.permission = permission;
}

/**
 * Indicates if this permission has been allocated by default or not.
 * Authorization View handlers may use this property in order to restrict
 * the list of scopes which may be refused to non-default scopes only.
 * For example, the read-only check-box controls can be used to represent
 * the default scopes
/* @param isDefault true if the permission has been allocated by default */

public void setDefault(boolean value) {
    this.isDefault = value;
}

public boolean isDefault() {
    return isDefault;
}

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Key Dates
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* August 3, 2017

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Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:
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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
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* April 9, 2019

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=================================================================
= Change Description / Commit Message / Patch Email =
=================================================================

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '--' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This
identifier should only be provided for branches other than 'edk2/master'.
For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
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To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0

The "TianoCore Contribution Agreement" is included below in this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.

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=================================================
= Change Description / Commit Message / Patch Email =
=================================================

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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{ TARGET_FREEBSD_NR_link, "link", NULL, NULL, NULL },
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The hypothetical commands `show w' and `show c' should show the appropriate
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be called something other than `show w' and `show c'; they could even be
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necessary. Here is a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the program
    `Gnomovision' (which makes passes at compilers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

License-History.txt

===================

This file contains the history of license change and contributor's agreement changes.

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made prior to the move to the License.txt formulation are shown below. Those terms require notice of the terms themselves be preserved and presented with the contributions. This file serves that preservation purpose as a matter of documenting the history of the project.

Key Dates

---------

* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

References:

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Proposals (RFCs):

https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:

https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

Replace BSD 2-Clause License with BSD + Patent License removing the need for the TianoCore Contribution Agreement.

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https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html

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2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.1
   The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list.
for the project.
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=================================================================
= Change Description / Commit Message / Patch Email =
=================================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message ==

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===
Notes for sample patch email

* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.

* `git format-patch` is one way to create this format

Definitions for sample patch email

* "Repository" is the identifier of the repository the patch applies. This identifier should only be provided for repositories other than 'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is the identifier of the branch the patch applies. This identifier should only be provided for branches other than 'edk2/master'. For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or 'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or 'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change. The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them by their real/legal name and their email address.

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3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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===============================
= Change Description / Commit Message / Patch Email =
===============================

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is made under the terms of the contribution agreement. This agreement is included below in this document.
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-- Wolfgang Denk

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Version 2, June 1991

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RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+    if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+    } else {
+        x86emu_dump_regs();
        

+}
}
if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;
+}

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+ void x86emuOp2_bswap(u8 op2)
+ {
+    /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\n");
+    switch (op2) {
+      case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+      case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+      case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+      case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
+      case 0xcc:
+        DECODE_PRINTF("ESP\n");
+        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+        break;
+      case 0xcd:
+        DECODE_PRINTF("EBP\n");
+        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+        break;
+      case 0xce:
+        DECODE_PRINTF("ESI\n");
+        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+        break;
+      case 0xcf:
+        DECODE_PRINTF("EDI\n");
+        M.x86.R EDI = x86emu_bswap(M.x86.R EDI);
+        break;
+    }
+    TRACE_AND_STEP();
+    DECODE_CLEAR_SEGOVR();
+    END_OF_INSTR();
+}
+ /* 0xc5 */ x86emuOp2_illegal_op,
+ /* 0xc6 */ x86emuOp2_illegal_op,
+ /* 0xc7 */ x86emuOp2_illegal_op,
-/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
-/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
+/* 0xc8 */ x86emuOp2_bswap,
+/* 0xc9 */ x86emuOp2_bswap,
+/* 0xca */ x86emuOp2_bswap,
+/* 0xcb */ x86emuOp2_bswap,
+/* 0xcc */ x86emuOp2_bswap,
+/* 0xcd */ x86emuOp2_bswap,
+/* 0xce */ x86emuOp2_bswap,
+/* 0xcf */ x86emuOp2_bswap,

/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
    target = (u16)(M.x86.R_IP + (s16)offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (cond)
-else {
+    if (cond) {
+        M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+
       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+
       if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
+           if (M.x86.intr & INTR_HALTED)
+               break;
    }
    DECODE_CLEAR_SEGOVR();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    
    /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(val1, val2);
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            M.x86.R_DI += inc;
            if ( (M.x86.mode & SYSMODE_PREFIX_DATA) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
            if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
    
    M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
    + M.x86.R_ECX -= 1;
    + else
    + M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
    if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
    + if (M.x86.intr & INTR_HALTED)
    + break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    @ @ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
            /* move them until (E)CX is ZERO. */
            + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                if (M.x86.mode & SYSMODE_PREFIX_REPE) break;
                if (M.x86.mode & SYSMODE_PREFIX_REPNE) break;
                if (M.x86.intr & INTR_HALTED)
                    break;
            }
        
        M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX -= 1;
        + else
        + M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
if ((M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0) break;
if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
      M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2795,6 +2826,8 @@
store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
} M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALTED)
+ break;
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) { /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
    }
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) { /* dont care whether REPE or REPNE */
    count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    while (count--) {
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
        M.x86.R_SI += inc;
    }
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

/* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
  val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
  cmp_byte(M.x86.R_AL, val2);
  - M.x86.R_CX -= 1;
  + if (M.x86.mode & SYSMODE_32BIT_REP)
  +     M.x86.R_ECX -= 1;
  + else
  +     M.x86.R_CX -= 1;
  M.x86.R_DI += inc;
  if (ACCESS_FLAG(F_ZF) == 0)
    break;
  + if (M.x86.intr & INTR_HALTED)
  +   break;

g } M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
  /* REPNE */
  - /* move them until CX is ZERO. */
  - while (M.x86.R_CX != 0) {
  + /* move them until (E)CX is ZERO. */
  + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_byte(M.x86.R_AL, val2);
    - M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
    +     M.x86.R_ECX -= 1;
    + else
    +     M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF))
      break; /* zero flag set means equal */
    + if (M.x86.intr & INTR_HALTED)
    +   break;
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
  @@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /* REPE */
      - /* move them until CX is ZERO. */
      - while (M.x86.R_CX != 0) {
      + /* move them until (E)CX is ZERO. */
      + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
  val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
  cmp_long(M.x86.R_EAX, val);
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
  /* REPNE */
  /* move them until (E)CX is ZERO. */
  while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.intr & INTR_HALTED)
      break;
    if (ACCESS_FLAG(F_ZF))
      break;          /* zero flag set means equal */
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REP) {
  /* REP */
  /* move them until CX is ZERO. */
  while (M.x86.R_CX != 0) {
    if (M.x86.intr & INTR_HALTED)
      break;
    if (ACCESS_FLAG(F_ZF))
      break;          /* zero flag set means equal */
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
  @@ -3238,9 +3300,9 @@
  DECODE_PRINTF("RET\n");
  imm = fetch_word_imm();
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DECODE_PRINTF2("\%x\n", imm);
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETn");
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\n");
    imm = fetch_word_imm();
    DECODE_PRINTF2("\%x\n", imm);
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4020,8 +4082,11 @@
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("\%04x\n", ip);
    TRACE_AND_STEP();
-    M.x86.R_CX -= 1;

if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
        M.x86.R_ECX -= 1;
    else
        M.x86.R_CX -= 1;
    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
        !ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 and ZF */
M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+     JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+     }
+     */
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:", cs);
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,12 +4433,14 @@
DECODE_PRINTF("REPNE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPNE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
DECODE_PRINTF("REPE\n");
TRACE_AND_STEP();
M.x86.mode |= SYSMODE_PREFIX_REPE;
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr ... */

destval = fetch_data_word(destoffset);
+          JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
break;
case 5:  /* jmp far ptr ... */
destval = fetch_data_word(destoffset);
destval2 = fetch_data_word(destoffset + 2);
+          JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = destval;
M.x86.R_CS = destval2;

Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-       s64 res = (s64)d * (s64)s;
+       s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-       u64 res = (u32)M.x86.R_EAX * (u32)s;
+       u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
} if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* in until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* in until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R ECX : M.x86.R CX);
while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    @} @@ -2355,15 +2354,15 @@
} if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* out until CX is ZERO. */
-    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+    /* out until (E)CX is ZERO. */
+    u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE

---

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#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inb %#04x \n", addr);
-    return inb(addr);
+    return 0;
    }

/***************************************************************************/
@@ -235,7 +230,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inw %#04x \n", addr);
-    return inw(addr);
+    return 0;
    }

/***************************************************************************/
@@ -250,7 +245,7 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("inl %#04x \n", addr);
-    return inl(addr);
+    return 0;
    }

/***************************************************************************/
@@ -264,7 +259,6 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outb %#02x -> %#04x \n", val, addr);
-    outb(val, addr);
    return;
    }

@@ -279,7 +273,6 @@
{
    DB(if (DEBUG_IO_TRACE())
    printk("outw %#04x -> %#04x \n", val, addr);
-    outw(val, addr);
    return;
    }

@@ -295,7 +288,6 @@
    DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);

Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0 63788
void X86EMU_setMemBase(void *base, size_t size)
{
  M.mem_base = (int) base;
  M.mem_size = size;
}

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -405,6 +397,6 @@
 void X86EMU_setMemBase(void *base, size_t size)
 {
  M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
  M.mem_size = size;
 }
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/debug.h	20 Mar 2008 15:25:27 -0000	1.4
@@ -40,8 +40,6 @@
/*---------------------- Macros and type definitions ----------------------*/
/* checks to be enabled for "runtime" */
@ @ -78,6 +76,8 @@
#define DEBUG_SYSINT() (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL() (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+ #define DEBUG_TRACEJMP() (M.x86.debug & DEBUG_TRACEJMP_F)
+ #define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS() (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE() (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE() (M.x86.debug & DEBUG_IO_TRACE_F)
@ @ -96,6 +96,8 @@
#define DEBUG_SYSINT() 0
#define DEBUG_TRACECALL() 0
#define DEBUG_TRACECALLREGS() 0
+ #define DEBUG_TRACEJMP() 0
+ #define DEBUG_TRACEJMPREGS() 0
#define DEBUG_SYS() 0
#define DEBUG_MEM_TRACE() 0
#define DEBUG_IO_TRACE() 0
@ @ -169,14 +171,20 @@

x86emu_dump_regs();

if (DEBUG_TRACECALL())

printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);

#define RETURN_TRACE(n,u,v)

+ # define RETURN_TRACE(u,v,w,x,s)

if (DEBUG_TRACECALLREGS())

x86emu_dump_regs();

if (DEBUG_TRACECALL())

-printk("%04x:%04x: %s\n", u, v, n);

+ printk("%04x:%04x: RET %s %04x:%04x\n", u, v, s, w, x);

+ # define JMP_TRACE(u,v,w,x,s)

+   if (DEBUG_TRACEJMPREGS())

+     x86emu_dump_regs();

+   if (DEBUG_TRACEJMP())

+     printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);

#else

# define CALL_TRACE(u,v,w,x,s)

-# define RETURN_TRACE(n,u,v)

+# define RETURN_TRACE(u,v,w,x,s)

+# define JMP_TRACE(u,v,w,x,s)

#endif

#endif DEBUG

Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
 #define SYSMODE_PREFIX_REPNE 0x00000100
 #define SYSMODE_PREFIX_DATA 0x00000200
 #define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+//the 32bit ECX register as or the 16bit CX register as count register
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP 0x00000800
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+//the 32bit ECX register as or the 16bit CX register as count register
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_INTR_PENDING 0x10000000
+#define SYSMODE_EXTRN_INTR 0x20000000
+#define SYSMODE_HALTED 0x40000000

SYSMODE_SEGOVR_GS | \nSYSMODE_SEGOVR_SS | \nSYSMODE_PREFIX_DATA | \n- SYSMODE_PREFIX_ADDR)
+ SYSMODE_PREFIX_ADDR  | \n+ SYSMODE_32BIT_REP)
```c
#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2

// Mask of pending interrupts

#define DEBUG_TRACEJMP_F 0x020000
#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);

#endif /* __X86EMU_X86EMU_H */
argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.
```
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-------

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After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

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Version 3, 29 June 2007

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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      (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0

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1.2173 libxfont 7.5-21.el7

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1.2174 dbus-python 1.1.1-9.el7

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/__init__.py

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from setuptools import setup, find_packages
import io
from os import path
import re

VERSION = re.search("VERSION = '([^\^]+)'", io.open(
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(
    path.join(path.dirname(__file__), 'README.rst'),
    encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)
Regenerate the webencodings.labels module.

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```python
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [""

Map encoding labels to their name.

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# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
    "":
    labels = [
```
(repr(assert_lower(label)).lstrip('u'),
 repr(encoding['name']).lstrip('u'))
for category in json.loads(urlopen(url).read().decode('ascii'))
for encoding in category['encodings']
for label in encoding['labels'])
max_len = max(len(label) for label, name in labels)
parts.extend(
  '%s:%s %s
' % (label, ' ' * (max_len - len(label)), name)
  for label, name in labels)
parts.append('}
return ''.join(parts)

if __name__ == '__main__':
  print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
  * /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like `Content-Type: text/html; charset=latin1`,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, `US-ASCII` and `iso-8859-1` on the web are actually
aliases for `windows-1252`, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

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Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1-1.tar.gz/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

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python-webencodings

This is a Python implementation of the `WHATWG Encoding standard` [http://encoding.spec.whatwg.org/]

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
  https://github.com/gsnedders/python-webencodings
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This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Python.

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### 1.2176 juddi-client 3.1.3.redhat-3

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1.2177 perl-parent 0.225-244.el7

1.2177.1 Available under license :

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license: unknown

Found in path(s):
* /opt/cola/permits/1176988803_1625002901.48/0/perl-parent-0.225-244.el7-1.src.rpm-cosi-expand-archive-G9vKeyU/parent-0.225.tar.gz-cosi-expand-archive-itvfcSwZ/parent-0.225/META.yml

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Found in path(s):
=encoding utf8

=head1 NAME

parent - Establish an ISA relationship with base classes at compile time

=head1 SYNOPSIS

package Baz;
use parent qw(Foo Bar);

=head1 DESCRIPTION

Allows you to both load one or more modules, while setting up inheritance from those modules at the same time. Mostly similar in effect to

package Baz;
BEGIN {
require Foo;
require Bar;
push @ISA, qw(Foo Bar);
}

By default, every base class needs to live in a file of its own.
If you want to have a subclass and its parent class in the same file, you can tell C<parent> not to load any modules by using the C<-norequire> switch:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
use parent -norequire, 'Foo', 'Bar';
# will not go looking for Foo.pm or Bar.pm

This is equivalent to the following code:

package Foo;
sub exclaim { "I CAN HAS PERL" }

package DoesNotLoadFooBar;
push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';

This is also helpful for the case where a package lives within a differently named file:
package MyHash;
use Tie::Hash;
use parent -norequire, 'Tie::StdHash';

This is equivalent to the following code:

package MyHash;
require Tie::Hash;
push @ISA, 'Tie::StdHash';

If you want to load a subclass from a file that `require` would not consider an eligible filename (that is, it does not end in either `<.pm>` or `<.pmc>`), use the following code:

package MySecondPlugin;
require './plugins/custom.plugin'; # contains Plugin::Custom
use parent -norequire, 'Plugin::Custom';

=head1 DIAGNOSTICS

=over 4

=item Class 'Foo' tried to inherit from itself

Attempting to inherit from yourself generates a warning.

    package Foo;
    use parent 'Foo';

=back

=head1 HISTORY

This module was forked from `base` to remove the cruft that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

`base`

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

=head1 MAINTAINER
Max Maischein C< corion@cpan.org >

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=cut

Found in path(s):
* /opt/cola/permits/1176988803_1625002901.48/0/perl-parent-0.225-244.el7-1.src.rpm-cosi-expand-archive-G9vKyeyU/parent-0.225.tar.gz-cosi-expand-archive-itvfcSwZ/parent-0.225/lib/parent.pm

1.2178 flatpak 1.0.9-8.el7_7

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that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Eclipse
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.
http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

MortBay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.2203 celt051 0.5.1.3-8.el7

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1.2204 iso-codes 3.46-2.el7

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(28) Artem Bityuckiy (--enable-newlib-iconv)

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic
## Shared object suffix

SO = so

## Non-shared intermediate object suffix

STATIC_O = ao

## Compilation rules

%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules

%: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s/(.*)\(.*\):/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@'\
%: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s/(.*)\(.*\):/\1.o $@ : /g" > $@; \
[ -s $@ ] || rm -f $@'\

## Versioned libraries rules

%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%: %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
1.2210 hamcrest 1.3.RC2

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1.2211 flyway-core 4.1.2

1.2212 python-chardet 2.2.1 3.el7

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* /opt/ws_local/PERMITS_SQL/1068497245_1594417766.44/0/netty-codec-socks-4-1-49-final-sources-1.jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java

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Hi. I snagged some of your bash functions from your home directory on
the FSF machines (naughty, I know), and I was wondering if you'd let
me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

``The lyf so short, the craft so long to lerne.`` - Chaucer

Chet Ramey, Case Western Reserve University
Internet: chet@po.CWRU.Edu
-- End of excerpt from Chet Ramey
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The source code for a work means the preferred form of the work for
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.2220 apache-log4j 1.0.1.Final

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1.2221 bzip2 1.0.6

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

#include "bzip2.h"

int main()
{
    return(0);
}

*/

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"Source code" for a work means the preferred form of the work for
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This option is useful when you wish to copy part of the code of
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cdf2bb5b6.
Open Source Used In Field Network Director for Virtual Machine Installation 4.8.0  64568

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
  These files were derived from the file_handle, systembuf, pipe and pistream
  classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
  admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
  except the first one, were first implemented in the Buildtool project.
  They were later adapted to be part of Boost.Process and, during that
  process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

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</!-- $Id$ -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>
  <xsl:value-of select="$isc.copyright.leader"/>
  <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
  <xsl:text>&#10;</xsl:text>
  <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
  <xsl:if test="translate($rest, '&#9;&#32;', '')">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text" select="$rest"/>
    </xsl:call-template>
  </xsl:if>
</xsl:call-template>
</xsl:stylesheet>
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1.2235 xdg-desktop-portal 1.0.2-1.el7

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/**
 * Abstract the invocation of a cache operation.
 *
 * <p>Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
 * exception that was thrown by the underlying invocation.
 * Callers are expected to handle this issue type specifically.
 *
 * @author Stephane Nicoll
 * @since 4.1
 */

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 */

/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * @exposes the {@code MBeanServer} for bean references.
 * This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
 * which uses standard JMX 1.2 API to access the platform's MBeanServer.
 *
 * @see the javadocs for WebSphere's
 * @link AdminServiceFactory
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 */

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 */
/**
 * Indicates that a component is only eligible for registration when all
 * [@linkplain #value specified conditions] match.
 * 
 * <p>a <em>condition</em> is any state that can be determined programmatically
 * before the bean definition is due to be registered (see [@link Condition] for details).
 * 
 * <p>The [@code @Conditional] annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * [@code @Component], including [@link Configuration @Configuration] classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any [@link Bean @Bean] method</li>
 * </ul>
 *
 * <p>If a [@code @Configuration] class is marked with [@code @Conditional],
 * all of the [@code @Bean] methods, [@link Import @Import] annotations, and
 * [@link ComponentScan @ComponentScan] annotations associated with that
 * class will be subject to the conditions.
 *
 * <p><strong>NOTE</strong>: Inheritance of [@code @Conditional] annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * [@code @Conditional] itself is not declared as
 * [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
 * custom <em>composed annotation</em> that is meta-annotated with
 * [@code @Conditional] must not be declared as [@code @Inherited].
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

Found in path(s):
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/context/annotation/Conditional.java
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  jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/context/support/StaticMessageSource.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jndi/JndiLocatorSupport.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
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  jar/org/springframework/jndi/JndiAccessor.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jmx/export/SpringModelMBean.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
  jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
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jar/org/springframework/remoting/RemoteInvocationFailureException.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/Phased.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/scripting/ScriptSource.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/remoting/RemoteProxyFailureException.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/validation/BindingResultUtils.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/instrument/classloading/LoadTimeWeaver.java

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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/format/datetime/joda/JodaTimeFormatterRegistrar.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/jmx/support/NotificationListenerHolder.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/instrument/classloading/websphere/WebSphereClassPreDefinePlugin.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-
jar/org/springframework/stereotype/Service.java
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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/cache/annotation/EnableCaching.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/cache/interceptor/CacheOperation.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/EnvironmentAware.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/annotation/ConditionContext.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/validation/DefaultMessageCodesResolver.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/support/MessageSourceSupport.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/stereotype/Component.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/support/AbstractApplicationContext.java
*/
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/annotation/ContextAnnotationAutowiredCandidateResolver.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/event/EventExpressionEvaluator.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/event/GenericApplicationListenerAdapter.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/context/annotation/ComponentScanAnnotationParser.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/event/EventPublicationInterceptor.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/annotation/Profile.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/support/AppicationListenerDetector.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/support/ApplicationListenerDetector.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/support/AsyncAnnotationAdvisor.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
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jar/org/springframework/context/support/PostProcessorRegistrationDelegate.java
*/opt/cola/permits/1141298164_1614968959.43/o/spring-context-4-3-22-release-sources-3-
jar/org/springframework/remoting/support/RemoteExporter.java

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* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/scheduling/concurrent/ForkJoinPoolFactoryBean.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/annotation/ConditionEvaluator.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/validation/ValidationUtils.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/remoting/support/RemoteInvocation.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/support/AbstractRefreshableConfigApplicationContext.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/format/datetime/standard/DateTimeContext.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /opt/cola/permits/1141298164_1614968959.43/0/spring-context-4-3-22-release-sources-3-jar/org/springframework/format/FormatterRegistry.java
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work.
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That's all there is to it!

1.2242 python-gudev 147.2-7.el7

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* /opt/ws_local/PERMITS_SQL/1077227038_1601369580.23/0/validation-api-1-0-0-ga-redhat-2-sources-jar/javax/validation/groups/Default.java
* /opt/ws_local/PERMITS_SQL/1077227038_1601369580.23/0/validation-api-1-0-0-ga-redhat-2-sources-jar/javax/validation/metadata/ConstraintDescriptor.java
* /opt/ws_local/PERMITS_SQL/1077227038_1601369580.23/0/validation-api-1-0-0-ga-redhat-2-sources-jar/javax/validation/ValidationProviderResolver.java
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*/
jar/javax/validation/constraints/Null.java
* /opt/ws_local/PERMITS_SQL/1077227038_1601369580.23/0/validation-api-1-0-0-ga-redhat-2-sources-jar/javax/validation/invalidation/GroupDefinitionValidationException.java
* /opt/ws_local/PERMITS_SQL/1077227038_1601369580.23/0/validation-api-1-0-0-ga-redhat-2-sources-jar/javax/validation/invalidation/ConstraintValidationException.java
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a54f274/src/test/java/org/jboss/classfilewriter/test/bytecode/i/IremTest.java
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executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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- `/opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CompatibleWith.java`

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* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/NoAllocation.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java

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* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1177939649_1625570689.35/0/error-prone-annotations-2-3-4-sources-8-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java

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1.2253 xorg-x11-server 1.20.4-7.el7

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1.2258 sox 14.4.1-7.el7
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1.2271 python-dateutil 1.5-7.el7

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.2277 resteasy-jax-rs 2.3.7.Final-redhat-2

1.2277.1 Available under license:

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/**
 * Any exception thrown by a MessageBodyWriter chain that is not an instance of a WriterException is caught internally
 * by the Resteasy runtime and wrapped with an instance of WriterException.
 * If you want to have special exception handling for exceptions thrown by MessageBodyWriters and their interceptors, then write an exception mapper for WriterException.
 * Also, you may extend this class and throw instances of it from your MessageBodyWriters (and interceptors)
 * @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
 * @version $Revision: 1 $
 */

Found in path(s):
* /opt/cola/permits/1077229894_1601874349.68/0/resteasy-jaxrs-2-3-7-final-redhat-2-sources-jar/org/jboss/resteasy/spi/WriterException.java
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/**
 * Any exception thrown by a MessageBodyReader chain that is not an instance of a ReaderException is caught internally

---

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by the Resteasy runtime and wrapped with an instance of ReaderException.

* If you want to have special exception handling for exceptions thrown by MessageBodyReaders, then write an exception mapper for ReaderException.

* Also, you may extend this class and throw instances of it from your MessageBodyReaders (and interceptors)

* @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
* @version $Revision: 1 $
*/

Found in path(s):
* /opt/cola/permits/1077229894_1601874349.68/0/resteasy-jaxrs-2-3-7-final-redhat-2-sources-jar/org/jboss/resteasy/spi/ReaderException.java

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/**
 * Encodes and decodes to and from Base64 notation.
 *
 * Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>
 *
 * Example:

 * String encoded = Base64.encode( myByteArray );
 *
 * byte[] myByteArray = Base64.decode( encoded );
 *
 * The <tt>options</tt> parameter, which appears in a few places, is used to pass several pieces of information to the encoder. In the "higher level" methods such as encodeBytes( bytes, options ) the options parameter can be used to indicate such things as first gzipping the bytes before encoding them, not inserting linefeeds, and encoding using the URL-safe and Ordered dialects.
 *
 * The constants defined in Base64 can be OR-ed together to combine options, so you might make a call like this:

 * String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );

 * to compress the data before encoding it and then making the output have newline characters.

 * Also...

 * String encoded = Base64.encodeBytes( crazyString.getBytes() );

 */
* <p>
* Change Log:
* </p>
* <ul>
* <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the
* value 01111111, which is an invalid base 64 character but should not
* throw an ArrayIndexOutOfBoundsException either. Led to discovery of
* mishandling (or potential for better handling) of other bad input
* characters. You should now get an IOException if you try decoding
* something that has bad characters in it.</li>
* <li>v2.3.6 - Fixed bug when breaking lines and the final byte of the encoded
* string ended in the last column; the buffer was not properly shrunk and
* contained an extra (null) byte that made it into the string.</li>
* <li>v2.3.5 - Fixed bug in [ @link #encodeFromFile ] where estimated buffer size
* was wrong for files of size 31, 34, and 37 bytes.</li>
* <li>v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
* the Base64.OutputStream closed the Base64 encoding (by padding with equals
* signs) too soon. Also added an option to suppress the automatic decoding
* of gzipped streams. Also added experimental support for specifying a
* class loader when using the
* [ @link #decodeToObject(java.lang.String, int, java.lang.ClassLoader) ]
* method.</li>
* <li>v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
* footprint with its CharEncoders and so forth. Fixed some javadocs that were
* inconsistent. Removed imports and specified things like java.io.IOException
* explicitly inline.</li>
* <li>v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
* final encoded data will be so that the code doesn't have to create two output
* arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using the [ @link #encodeBytesToBytes(byte[]) ] family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff).</li>
* <li>v2.3.1 - Added [ @link #encodeBytesToBytes(byte[], int, int, int) ] and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.</li>
* <li>v2.3 - <strong>This is not a drop-in replacement!</strong> This is two years of comments
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:
* </li>
* <ul>
* <li>Does not break lines, by default. This is to keep in compliance with
* sucks, and me, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:
* </li>
* </ul>
* appropriate, though it will require some changes to your code. Sorry,
* it should have been done this way to begin with.</li>
* <li><em>Removed all references to System.out, System.err, and the like.</em></li>
* Shame on me. All I can say is sorry they were ever there.</li>
* <li>Throws NullPointerExceptions and IllegalArgumentExceptions as needed</li>
* such as when passed arrays are null or offsets are invalid.</li>
* <li>Cleaned up as much javadoc as I could to avoid any javadoc warnings.</li>
* This was especially annoying before for people who were thorough in their projects and then had gobs of javadoc warnings on this file.</li>
* </ul>
* </li>
* <li>v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug when using very small files (~<40 bytes).</li>
* <li>v2.2 - Added some helper methods for encoding/decoding directly from one file to the next. Also added a main() method to support command line encoding/decoding from one file to the next. Also added these Base64 dialects:
* </li>
* </ol>
* The default is RFC3548 format.</li>
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates URL and file name friendly format as described in Section 4 of RFC3548.
* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates URL and file name friendly format that preserves lexical ordering as described in http://www.faqs.org/qa/rfcc-1940.html</li>
* Special thanks to Jim Kellerman at http://www.powerset.com/ for contributing the new Base64 dialects.
* </li>
* </p>
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods for reading and writing to and from files.</li>
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like EBCDIC).</li>
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
* v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner. The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically. Generally things are cleaner. You'll probably have to change some method calls that you were making to support the new options format (<tt>int</tt>s that you "OR" together).</li>
* v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using <tt>decode( String s, boolean gzipCompressed )</tt>. Added the ability to "suspend" encoding in the Output Stream so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an XML file).</li>
* v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP streams. Added the ability to GZIP-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.<br/>
* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.<br/>
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream<br/>
  where last buffer being read, if not completely full, was not returned.<br/>
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.<br/>
* v1.3.3 - Fixed I/O streams which were totally messed up.<br/>
* </ul>

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  plenty of well-wishing instead!<br/>
* Please visit <a href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute improvements.<br/>
* <p>

* @author Robert Harder<br/>
* @author rob@iharder.net<br/>
* @version 2.3.7
*/

Found in path(s):
* /opt/cola/permits/1077229894_1601874349.68/0/resteasy-jaxrs-2-3-7-final-redhat-2-sources-jar/org/jboss/resteasy/util/Base64.java
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* /opt/cola/permits/1077229894_1601874349.68/0/resteasy-jaxrs-2-3-7-final-redhat-2-sources-jar/META-INF/maven/org.jboss.resteasy/resteasy-jaxrs/effective-pom.xml

1.2278 stilts-stomp-server-core 0.1.26.redhat-3

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/monitor/MonitorAdmin.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/info/dmtree/security/DmtPrincipalPermission.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/info/dmtree/security/AlertPermission.java

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 */

/*
 * Create a new <code>Acl</code> instance from this <code>Acl</code> with
* the given permission revoked from the given principal. Other permissions
* of the principal are not affected.
* <p>
* Note, that it is not valid to revoke a permission from a specific
* principal if that permission is granted globally to all principals.
* 
* @param principal The entity from which permissions should be revoked, or
* &quot;*&quot; to revoke permissions from all principals.
* @param permissions The permissions to be revoked. The parameter can be a
* logical &lt;code&gt;or&lt;/code&gt; of more permission constants defined in
* this class.
* @return a new &lt;code&gt;Acl&lt;/code&gt; instance
* @throws IllegalArgumentException if &lt;code&gt;principal&lt;/code&gt; is not a
* valid principal name, if &lt;code&gt;permissions&lt;/code&gt; is not a
* valid combination of the permission constants defined in this
* class, or if a globally granted permission would have been
* revoked from a specific principal
*/

Found in path(s):
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/info/dmtree/Acl.java

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*/
/**
* Service for administering configuration data.
* 
* The main purpose of this interface is to store bundle configuration data
* persistently. This information is represented in &lt;code&gt;Configuration&lt;/code&gt;
* objects. The actual configuration data is a &lt;code&gt;Dictionary&lt;/code&gt; of
* properties inside a &lt;code&gt;Configuration&lt;/code&gt; object.
* 
* <p>
* There are two principally different ways to manage configurations. First
* there is the concept of a Managed Service, where configuration data is
* uniquely associated with an object registered with the service registry.
* 
* <p>
* Next, there is the concept of a factory where the Configuration Admin service
* will maintain 0 or more <code>Configuration</code> objects for a Managed
* Service Factory that is registered with the Framework.
* 
* <p>
* The first concept is intended for configuration data about "things/services"
* whose existence is defined externally, e.g. a specific printer. Factories are
* intended for "things/services" that can be created any number of times, e.g.
* a configuration for a DHCP server for different networks.
* 
* <p>
* Bundles that require configuration should register a Managed Service or a
* Managed Service Factory in the service registry. A registration property
* named <code>service.pid</code> (persistent identifier or PID) must be used to
* identify this Managed Service or Managed Service Factory to the Configuration
* Admin service.
* 
* <p>
* When the ConfigurationAdmin detects the registration of a Managed Service, it
* checks its persistent storage for a configuration object whose
* <code>service.pid</code> property matches the PID service property (  
* <code>service.pid</code>) of the Managed Service. If found, it calls
* <code>@link ManagedService#updated</code> method with the new properties. The
* implementation of a Configuration Admin service must run these call-backs
* asynchronously to allow proper synchronization.
* 
* <p>
* When the Configuration Admin service detects a Managed Service Factory
* registration, it checks its storage for configuration objects whose
* <code>service.factoryPid</code> property matches the PID service property of
* the Managed Service Factory. For each such <code>Configuration</code>
* objects, it calls the <code>ManagedServiceFactory#updated</code> method
* asynchronously with the new properties. The calls to the <code>updated</code>
* method of a <code>ManagedServiceFactory</code> must be executed sequentially
* and not overlap in time.
* 
* <p>
* In general, bundles having permission to use the Configuration Admin service
* can only access and modify their own configuration information. Accessing or
* modifying the configuration of another bundle requires
* <code>ConfigurationPermission[*,CONFIGURE]</code>.
* 
* <p>
* <code>Configuration</code> objects can be <i>bound</i> to a specified bundle location. In this case, if a matching Managed Service or Managed Service Factory is registered by a bundle with a different location, then the Configuration Admin service must not do the normal callback, and it should log an error. In the case where a <code>Configuration</code> object is not bound, its location field is <code>null</code>, the Configuration Admin service will bind it to the location of the bundle that registers the first Managed Service or Managed Service Factory that has a corresponding PID property. When a <code>Configuration</code> object is bound to a bundle location in this manner, the Configuration Admin service must detect if the bundle corresponding to the location is uninstalled. If this occurs, the <code>Configuration</code> object is unbound, that is its location field is set back to <code>null</code>.

* 

* The method descriptions of this class refer to a concept of "the calling bundle". This is a loose way of referring to the bundle which obtained the Configuration Admin service from the service registry. Implementations of <code>ConfigurationAdmin</code> must use a <link org.osgi.framework.ServiceFactory> to support this concept.

* 

* @version $Revision: 7356 $ 

*/

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/cm/ConfigurationAdmin.java

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/prefs/Preferences.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-jar/org/osgi/service/blueprint/reflect/ReferenceMetadata.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4.2.0-sources-4.jar/org/osgi/service/wireadmin/WireAdminListener.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4.2.0-sources-4.jar/org/osgi/service/wireadmin/WireConstants.java

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  jar/org/osgi/service/log/LogService.java
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 */

/**
 * This interface is used to manage a database of named <code>Role</code> objects,
 * which can be used for authentication and authorization purposes.
 */

This version of the User Admin service defines two types of <code>Role</code> objects: "User" and "Group". Each type of role is represented by an <code>int</code> constant and an interface. The range of positive integers is reserved for new types of roles that may be added in the future. When
* defining proprietary role types, negative constant values must be used.
*
* A `{@link User}` object can be configured with credentials (e.g., a password)
* and properties (e.g., a street address, phone number, etc.).
* `{@link Group}` object represents an aggregation of `{@link User}` and
* `{@link Group}` objects. In other words, the members of a `<code>Group</code>`
* object are roles themselves.
* `{@link User Admin service manages and maintains its own namespace of
* `<code>Role</code>` objects, in which each `<code>Role</code>` object has a unique
* name.
*
* @version $Revision: 5673 $ */

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 */

/**
 * Returns the list of extension property keys, if the provider of this
 * <code>MetaNode</code> provides proprietary extensions to node meta
 * data. The method returns <code>null</code> if the node doesn't provide
 * such extensions.
 *
 * @return the array of supported extension property keys
 */

/**
 * Returns the value for the specified extension property key. This method
 * only works if the provider of this <code>MetaNode</code> provides
 * proprietary extensions to node meta data.
 *
 * @param key the key for the extension property
 * @return the value of the requested property, cannot be <code>null</code>
 * @throws IllegalArgumentException if the specified key is not supported by
 *         this <code>MetaNode</code>
 */

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/info/dmtree/MetaNode.java

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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/util/tracker/BundleTracker.java
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* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/monitor/Monitorable.java
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  jar/org/osgi/service/application/ApplicationHandle.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/util/mobile/UserPromptCondition.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/org/osgi/service/component/ComponentInstance.java
* /opt/cola/permits/1136652657_1613848931.04/0/org-osgi-compendium-4-2-0-sources-4-
  jar/info/dmtree/spi/TransactionalDataSession.java
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
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specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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* SUCH DAMAGE.
*/
/
/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*/

#ifndef _h_config
#define _h_config

/****************** System dependant compilation flags ******************/

/*
* POSIX This system supports IEEE Std 1003.1-1988 (POSIX).
*/
/ * POSIX
 * undef POSIX

/ *
 * POSIXJOBSThis system supports the optional IEEE Std 1003.1-1988 (POSIX)
 * job control facilities.
 */
 * undef POSIXJOBS

/ *
 * VFORKThis machine has a vfork().
 * It used to be that for job control to work, this define
 * was mandatory. This is not the case any more.
 * If you think you still need it, but you don't have vfork,
 * define this anyway and then do #define vfork fork.
 * I do this anyway on a Sun because of yellow pages brain damage,
 * [should not be needed under 4.1]
 * and on the iris4d cause SGI's fork is sufficiently "virtual"
 * that vfork isn't necessary. (Besides, SGI's vfork is weird).
 * Note that some machines eg. rs6000 have a vfork, but not
 * with the berkeley semantics, so we cannot use it there either.
 */
 * define VFORK

/ *
 * BSDJOBSYou have BSD-style job control (both process groups and
 * a tty that deals correctly
 */
 * define BSDJOBS

/ *
 * BSDTIMESYou have BSD-style process time stuff (like rusage)
 * This may or may not be true. For example, Apple Unix
 * *(OREO) has BSDJOBS but not BSDTIMES.
 */
 * define BSDTIMES

/ *
 * BSDLIMITYou have BSD-style resource limit stuff (getrlimit/setrlimit)
 */
 * define BSDLIMIT

/ *
 * TERMIOYou have struct termio instead of struct sgttyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgttyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
# undef TERMIO

/*
 * SYSVREL Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- tcsh is
 * built in a BSD universe.
 * Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
 * you are running. Or set it to 0 if you are not SYSV based
 */
#define SYSVREL 0

/*
 * YPBUGS Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/****************** local defines *******************/
#endif /* _h_config */

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